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LOCKHEED MARTIN

September 15, 2021

VIA EMAIL AND PRIVATE CARRIER

Mr. Brian Dietz
Program Administrator Land Restoration Program
Land and Material Administration Maryland Department of the Environment
1800 Washington Road, Suite 625
Baltimore, Maryland 21230

Re: Transmittal of Technical Memorandum: March 2021 Surface Water Sampling Results for Frog Mortar Creek
Martin State Airport
701 Wilson Point Road
Middle River, Maryland

Dear Mr. Dietz,
For your information, please find enclosed two hard copies of the above-referenced document. This prepared technical memorandum presents sampling results for surface water samples collected in Frog Mortar Creek adjacent to the Dump Road Area at Martin State Airport in Middle River, Maryland.

If you have any questions or require any additional information please contact me by phone at 301-548-2223, or via e-mail at charles.trione@lmco.com.

Sincerely,

Charles Trione
Project Lead, Environmental Remediation
Lockheed Martin Corporation

cc: (via email without enclosure)
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TECHNICAL MEMORANDUM: MARCH 2021 SURFACE WATER SAMPLING RESULTS FOR FROG MORTAR CREEK MARTIN STATE AIRPORT 701 WILSON POINT ROAD MIDDLE RIVER, MARYLAND

Prepared for:
Lockheed Martin Corporation

Prepared by:
Tetra Tech, Inc.

September 2021

Approved by:

Revision:



Michael Martin, P.G.
Regional Manager



Josh Mullis
Project Scientist

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ACRONYMS AND ABBREVIATIONS

1,4-DCB	1,4-dichlorobenzene
AWQC	ambient water quality criteria
BTAG	Biological Technical Advisory Group
BTEX	benzene, toluene, ethylbenzene, and xylenes
cis-1,2-DCE	*cis*-1,2-dichloroethene
COMAR	Code of Maryland Regulations
cVOC	chlorinated volatile organic compound
DRA	Dump Road Area
EESH	energy, environment, safety, and health
EL	Edwards Lane
GC/MS	gas chromatography/mass spectrometry
GIS	geographic information system
IDW	investigation derived waste
Lockheed Martin	Lockheed Martin Corporation
LRP	Land Restoration Program
MAA	Maryland Aviation Administration
MDE	Maryland Department of the Environment
MDANG	Maryland Air National Guard
MSA	Martin State Airport
µg/L	microgram(s) per liter
NOAA	National Oceanic and Atmospheric Administration
NRWQC	national recommended water quality criteria
PDF	portable document format
PPE	personal protective equipment
SVOC	semivolatile organic compound
TB	trip blank

TCE	trichloroethene
Tetra Tech	Tetra Tech, Inc.
TIC	tentatively identified compound
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound

SECTION 1
INTRODUCTION

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc., (Tetra Tech) has prepared this technical memorandum presenting sampling results for surface water samples collected in Frog Mortar Creek adjacent to the Dump Road Area (DRA) at Martin State Airport (MSA) in Middle River, Maryland (see Figure 1-1). Surface water was sampled according to the *2021 Surface Water Sampling Work Plan* (Tetra Tech, 2020). This technical memorandum presents the analytical results for surface water samples collected from Frog Mortar Creek on March 8, 2021.

This investigation obtained additional chemical and spatial-distribution data for volatile organic compounds (VOCs) in creek surface water that possibly emanate from a groundwater plume at the DRA, or possibly originate from upgradient sources. Results herein are compared to screening levels intended to protect human health and the environment. These data provide information to:

- characterize surface water quality to determine the concentrations and spatial distributions of volatile organic compounds in Frog Mortar Creek
- evaluate the interaction between shallow groundwater and Frog Mortar Creek for numerical modeling
- evaluate the effectiveness of the groundwater treatment system now operating to contain contaminated groundwater emanating from the DRA
- provide information that can be used to assess ecological risks to aquatic and benthic organisms and human health risks for recreational users of Frog Mortar Creek
- update modeling for shallow-groundwater flow patterns and groundwater discharge to Frog Mortar Creek

This technical memorandum is organized as follows:

Section 2—Site Background and Previous Investigations: Briefly describes the site and previous Frog Mortar Creek investigations.

Section 3—Investigation Approach and Methodology: Presents the technical approach and field methodology used for surface water sampling.

Section 4—Results: Presents the investigation results.

Section 5—Summary: Summarizes the investigation approach and results.

Section 6—References: Cites references used to compile this memorandum.

SECTION 2
SITE BACKGROUND AND PREVIOUS INVESTIGATIONS

Martin State Airport (MSA), located at 701 Wilson Point Road in Middle River, Maryland, is bounded by Frog Mortar Creek to the east and Stansbury Creek to the west (Figure 2-1); both are tidal tributaries of the Chesapeake Bay. The Maryland Aviation Administration (MAA) operates MSA on behalf of the Maryland Department of Transportation. The MSA property (approximately 775 acres) consists of an administration building (the Main Terminal building), aircraft hangars, a 7,000-foot-long runway, and several taxiways. MAA manages more than 130,000 square feet of heated hangar space and 190 smaller aircraft hangars. MSA hosts the Maryland State Police aviation unit, Baltimore County Police aviation and marine units, the Baltimore City Police aviation unit, and the Glenn L. Martin Museum. A portion of MSA is leased to the United States Air Force for use by the Maryland Air National Guard (MDANG). MSA is also home to several commercial tenants that provide fuels and lubricants, helicopter avionics repair, and flight instruction (MAA, 2018).

The area under investigation is Frog Mortar Creek, which is east of and adjacent to the Dump Road Area (DRA) site at MSA (Figures 2-1 and 2-2). The DRA consists mostly of open meadows, mowed grass, and heavily wooded areas (as modified by the construction of the groundwater extraction and treatment system noted below); however, it also includes a portion of Taxiway Tango and extends to the airport runway. Taxiway Tango is a concrete and asphalt taxiway used by MDANG for military aircraft operations. The airport runway is also used by state-owned and private aircraft.

An extraction and treatment system for DRA groundwater was constructed in 2017 and is currently operational at the DRA site. This system consists of 16 groundwater extraction wells, underground piping, and a building that houses components to capture and treat groundwater containing volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. The wells

and underground piping pump groundwater from the surficial aquifer to the aboveground treatment building, creating a "hydraulic barrier" that captures groundwater and prevents contaminants from migrating off-site. The treatment building is 60 feet wide and 170 feet long (10,200 square feet) and is near Frog Mortar Creek in the eastern-central portion of the DRA (Figure 2-2). Treated groundwater is tested routinely and subsequently discharged to Frog Mortar Creek via a Maryland Department of the Environment (MDE)-permitted outfall.

Detailed environmental studies have been conducted at the DRA since 1991, when MAA removed drums discovered near Taxiway Tango (Figure 2-2). Subsequent environmental studies at MSA have demonstrated that soil, pond sediment, and groundwater at the DRA have been impacted by VOCs, SVOCs, and metals resulting from historical dumping and backfilling. The following constituents (including several metals) have been detected in DRA groundwater at concentrations exceeding state groundwater standards:

- ***chlorinated VOCs*** (cVOCs)—including trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC)
- ***petroleum-related VOCs***—such as benzene, toluene, ethylbenzene, and xylenes (BTEX)
- ***1,4-dioxane***—although Maryland does not have a groundwater standard for this compound, concentrations at the site have exceeded standards proposed or promulgated by other states
- ***metals***—arsenic, barium, beryllium, cadmium, chromium, copper, hexavalent chromium (in two wells, in 2008 only), iron, lead, manganese, mercury, nickel, selenium, thallium, vanadium, and zinc

Frog Mortar Creek is hydraulically downgradient of and receives groundwater discharging from the DRA. The constituents listed above have been detected in surface water samples collected from Frog Mortar Creek. Surface water samples have been collected from Frog Mortar Creek since 1997, and multiple rounds of samples have been collected annually since 2010. Studies at Frog Mortar Creek from 1997–2020, and details of the area's physical setting, land use, physiography, and surface/subsurface conditions (i.e., soils, hydrology, and geology), are summarized in the *2020 Surface Water Sampling Report for Frog Mortar Creek* (Tetra Tech, 2021), and therefore are not repeated herein.

SECTION 3
INVESTIGATION APPROACH AND METHODOLOGY

Previous surface-water sampling data for Frog Mortar Creek support the need for ongoing monitoring to assess the extent to which surface water is affected by groundwater emanating from the Dump Road Area (DRA). The March 2021 data supports this ongoing effort and will also be used to assess the effectiveness of the extraction, containment, and treatment system. The chlorinated volatile organic compounds (cVOCs) trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC), and several metals, have previously been detected in Frog Mortar Creek surface water samples at concentrations exceeding ecological and/or human health screening-criteria; these analytes have also been detected in groundwater at the DRA.

Detected chemical concentrations in surface water obtained from Frog Mortar Creek were evaluated by comparing them to United States Environmental Protection Agency (USEPA) or Maryland screening levels and site-specific screening levels. These screening criteria include USEPA national recommended water quality criteria (NRWQC), Maryland ambient water quality criteria (AWQC), USEPA Biological Technical Advisory Group (BTAG) surface water screening-benchmarks, and site-specific screening levels for swimming developed by Lockheed Martin Corporation (Lockheed Martin) and approved by the Maryland Department of the Environment (MDE). The March 2021 sampling is the first of six surface-water sampling rounds planned for 2021 and assessed water quality during the end of the spring season, when recreational use of Frog Mortar Creek is expected to be minimal.

3.1 SURFACE WATER SAMPLING

3.1.1 Surface Water Sampling and Chemical Analyses

Thirty-two surface water samples were collected from Frog Mortar Creek adjacent to the DRA site on March 8, 2021. Sampling locations are shown in Figure 3-1. Four samples were collected along each of seven transects spaced approximately 350 feet apart along the western shoreline of the

creek; these transects are designated MSA-SW37, MSA-SW38, MSA-SW40, MSA-SW41, MSA-SW42, MSA-SW43, and MSA-SW44. Historically, transects SW39 and SW45 (the southernmost transects) were also included in the sampling program, but these two transects were removed from the 2020 and 2021 surface water sampling program, as the remaining seven transects fully cover the extent of the targeted area east of the Dump Road Area. In addition, a transect on the eastern shoreline of Frog Mortar Creek, the Edward Lane transect, has also been historically sampled. In agreement with the Maryland Department of Environment Land Restoration Program (MDE-LRP), the Edwards Lane transect (EL-01A through D) is sampled once a year in June. Sampling results from this transect have historically been nondetect and results in June 2020 were also nondetect.

Four additional near-shore samples were collected between transects MSA-SW42 and MSA-SW40 (MSA-SW46A), MSA-SW40 and MSA-SW38 (MSA-SW47A), MSA-SW38 and MSA-SW41 (MSA-SW48A), and MSA-SW41 and MSA-SW43 (MSA-SW49A). These four locations were first sampled in July 2015 to assess constituent concentrations between transects exhibiting the highest VOC concentrations, and were also included in the March 2021 sampling round.

Along each transect, one sample was collected near the shoreline ("A" sample), one was collected approximately 50 feet from the shoreline ("B" sample), one was collected approximately 100 feet from the shoreline ("C" sample), and one was collected approximately 200 feet from the shoreline ("D" sample). All samples were collected approximately one foot below the water surface. All sampling locations were located using a handheld global positioning system receiver.

Table 3-1 outlines the sampling and chemical analysis program. Samples from the seven western shoreline transects (MSA-SW37, SW38, SW40, SW41, SW42, SW43, and SW44) and SW46A through SW49A were analyzed for VOCs by USEPA SW846 Method 8260C (including Freon 113 [1,1,2-trichloro-1,2,2-trifluoroethane], Freon 22 [chlorodifluoromethane], and tentatively identified compounds).

Historically, western shoreline samples were also analyzed for hexavalent chromium and dissolved metals. In agreement with MDE-LRP, and because hexavalent chromium was not detected during

any sampling events in 2018 or 2019, hexavalent chromium and dissolved metals were removed from the 2020 and 2021 surface water sampling program. Water quality parameters (including temperature, pH, specific conductance, salinity, turbidity, dissolved oxygen, and oxidation-reduction potential) were measured and recorded at the time of sampling, as was the water depth at all surface-water sampling locations. Sampling information was documented on sample log sheets (see Appendix A).

Water depth measurements were also obtained from the staff gauge at 3301 Edwards Lane before sampling (0.60 meters [1.5 feet] at 0850 hours) and after sampling (0.75 meters [2 feet] at 1135 hours). Mean tidal-flux in the Middle River, Maryland area is approximately 1.6 feet (National Oceanic and Atmospheric Administration [NOAA], 2015). A 2011 study by Lockheed Martin sought to ascertain the effects of tides and sampling depths on contaminant concentrations in Frog Mortar Creek (Tetra Tech, 2012). The tidal phase relative to the time of sample collection appears to influence the VOC concentrations detected, particularly in the samples collected 50 feet from shore. In general, VOC concentrations in "B-series" samples (collected 50 feet from shore) were greater at low tide than at high tide, irrespective of sampling depth. Therefore, during this sampling round, all samples were collected during low tide.

Samples were collected as grab samples from approximately one foot below the water surface using the direct-fill sampling technique. VOC samples were collected using a stainless steel discrete-interval sampler (also known as a "bacon bomb" sampler). The sampler was lowered to approximately one foot below the water surface, the check valve was engaged to allow the sampler to fill, the sampler was then brought to the surface, and the water was removed through a valve to fill three laboratory-cleaned, hydrochloric-acid preserved, 40-milliliter sample vials. The discrete-interval sampler was cleaned after each use by rinsing it with distilled water over the creek. No decontamination fluids were collected during this sampling.

No duplicate samples were collected during this sampling round. A trip blank (one per cooler containing VOC samples) was submitted for VOC analysis for quality assurance/quality control purposes.

3.1.2 Documentation

A master site logbook was maintained as an overall record of site field activities. Sample documentation includes completed chain of custody forms and surface-water-specific sample log-sheets. Chain of custody forms are standardized to summarize and document pertinent sample information, such as sample identification and type, matrix, date and time of collection, preservation, and the analysis requested. Sample-custody procedures document sample acquisition and integrity. March 2021 log sheets for surface water samples are in Appendix A. Chain of custody forms, the data-validation report, and the full laboratory report are in Appendix B (on compact disc).

3.1.3 Sample Nomenclature and Handling

Surface water samples collected from western shoreline transects are identified with a unique sample-identification tag. Surface water samples are labeled with an "MSA-SW" prefix, followed by the sample transect number, the profile location ("A," "B," "C," or "D"), and the six-digit sampling date. For example, the surface water sample collected on March 8, 2021 from MSA-SW37A is labeled "MSA-SW37A-030821." The trip blank is labeled with a "TB" prefix followed by the sample's six-digit submittal date (e.g., TB-030821).

Sample handling includes field-related considerations concerning the selection of sample containers, preservatives, allowable holding times, and analyses requested. Proper custody procedures were followed throughout all phases of sample collection and handling. Chain of custody protocols were used throughout sample handling to assure the evidentiary integrity of sample containers. These protocols demonstrate that the samples were handled and transferred in a manner that would prevent or detect possible tampering.

Sample containers were released under signature from the laboratory and accepted under signature by the sampler(s) or other individual(s) responsible for maintaining custody, until the sample containers could be transferred to the sampler(s). Transport containers returning to the laboratory were sealed with strapping tape and a tamper-resistant custody seal. The custody seal contains the signature of the individual releasing the transport container, along with the date and time.

3.1.4 Equipment Decontamination

This project required minimal equipment decontamination. Both dedicated and disposable equipment were used for surface water sampling, to reduce the need for decontamination and eliminate potential cross-contamination of samples. The discrete-interval sampler was cleaned after each use by rinsing with distilled water. Equipment was cleaned over the (creek) water after each sample had been collected. No decontamination fluids were collected during sampling.

3.1.5 Waste Management

Investigation derived waste (IDW) consisted of personal protective equipment (PPE) generated during field sampling. PPE IDW was brushed off, placed in trash bags, and disposed of in a facility trash receptacle designated by facility personnel.

3.2 DATA MANAGEMENT

Laboratory data-handling procedures met the requirements of the laboratory subcontract. All analytical and field data are maintained in project files, including copies of chain of custody forms, sample log forms, sampling location maps, and documentation of quality assurance and data corrections.

3.2.1 Data Tracking and Control

A sample tracking system was used from the beginning to the end of sampling. The field operations leader began and coordinated sample tracking before mobilizing the sampling team to the field. Preprinted sample-container labels generated before fieldwork began were reviewed to ensure that they were accurate and adhered to work plan requirements. The project manager coordinated with the analytical laboratory to ensure that the laboratory was aware of the number and type of samples and analyses that would be submitted.

During field sampling, the field operations leader forwarded the chain of custody to a designated project assistant and to the laboratory. The project assistant confirmed that the chain of custody provided the information required by the work plan. This allowed early detection of errors made in the field so that adjustments could be made before sample analyses.

After successful completion of all requested analyses, the laboratory submitted an electronic deliverable for each sample delivery group. When all electronic deliverables had been received from the laboratory, the project assistant checked the laboratory submittal to determine whether the laboratory had performed all analyses requested. All analyses requested for this project were performed.

3.2.2 Sample Information

Data from field measurements were recorded using appropriate sample log sheets and were summarized in tabular form, as were the raw instrument-data from the laboratory. The field operations leader verified field data daily; laboratory data were verified by the group supervisor and then by the laboratory's quality control/documentation department. Sample log sheets are in Appendix A.

3.2.3 Project Data Compilation

The analytical laboratory generated an Adobe Acrobat® portable document format (PDF) file of the analytical data package, as well as an electronic database deliverable. The electronic database was checked against the PDF file provided by the laboratory and updated as required, based on data-qualifier flags applied during data validation. All data, such as units of measure and chemical nomenclature, were corrected as necessary to be consistent with the project database.

3.2.4 Geographic Information System

Data management systems for this investigation consisted of a relational database and geographic information system (GIS) to manage environmental information pertaining to MSA housed in the Lockheed Martin environment, safety, and health (ESH) GIS system. The relational database stores chemical, geological, hydrogeological, and other environmental data collected during environmental investigations. The GIS, created from the relational database, contains subsets of the larger data pool. The GIS allows environmental data to be posted onto base maps to graphically represent project information. Compiled sampling, chemical, and positional data from this investigation were incorporated into the ESH GIS system.

3.3 DATA REVIEW

Data from the laboratory were entered into a sample database and evaluated against risk-based criteria. Data were validated (to evaluate data completeness, holding times, calibrations, precision, accuracy, laboratory and field-blank contamination, and detection limits) concurrent with the data evaluation. These reviews were based on USEPA national functional guidelines for organic data review (USEPA, 2017) and the specifics of the analytical methods used. Data from this sampling event consist of chemical results for surface water samples. Data-validation reports, full laboratory reports, and chain of custody forms are in Appendix B (on compact disc) as PDF files. A table with all analytical data for March 2021 Frog Mortar Creek surface water samples, including nondetects, is in Appendix C.

Collectively, these data are acceptable for their intended uses (site characterization and risk assessment). The data qualifiers (i.e., flags) listed below were applied to the chemical results presented in this report. Several flags appear in the chemical-results tables in Section 4, and all flags appear in Appendices B and C:

J The analyte is considered present in the sample but at an estimated value that may not meet highest accuracy or precision standards. In this program, samples were qualified with "J" because quantitation was above the method detection limit but below the laboratory reporting-limit.

U Not detected; the analyte is considered not detected at the reported value.

UJ The analyte was analyzed for but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.

UR The sample result (nondetect) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

SECTION 4
RESULTS

4.1 SURFACE WATER DATA AND SCREENING CRITERIA

Validated chemical data from the Frog Mortar Creek surface water samples collected in March 2021 were used to generate a statistical summary table (Table 4-1), a table summarizing positive detections of chemical analytes (Table 4-2), and a comparison table (Table 4-3) showing trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC) results from the March 2020, December 2020, and March 2021 sampling rounds. Samples collected from transects, including single-sample transect locations SW46A–SW49A, were analyzed for volatile organic compounds (VOCs) (including fuel-related compounds such as benzene, toluene, ethylbenzene, and xylenes [BTEX] and tentatively identified compounds [TICs]). Eight VOCs were detected at low concentrations during the March 2021 sampling round: 1,2,4-trimethylbenzene, *cis*-1,2-DCE, *m*+*p* xylenes, *o*-xylene, toluene, total xylenes, TCE, and VC. Table 4-2 compares surface-water sampling results to several applicable screening criteria, including:

- United States Environmental Protection Agency (USEPA) Region 3 Biological Technical Advisory Group (BTAG) freshwater screening-benchmarks (USEPA, 2006)
- USEPA national recommended water quality criteria (NRWQC) for freshwater acute and chronic aquatic-organism exposures, and NRWQC for human health aquatic-organism-consumption (USEPA, 2019)
- Maryland ambient water quality criteria (AWQC) for acute and chronic aquatic-organism exposures, and AWQC for human health aquatic-organism-consumption (Code of Maryland Regulations [COMAR], 2016)
- site-specific screening levels for swimming developed for TCE, *cis*-1,2-DCE and VC

Site-specific screening levels for swimming for TCE, *cis*-1,2-DCE, and VC were developed by Lockheed Martin Corporation (Lockheed Martin) and approved by the Maryland Department of the Environment (MDE); these values are used to assess risks posed to recreational users of Frog

Mortar Creek. These screening levels were developed to protect the health of swimmers near the Dump Road Area (DRA) shoreline, assuming they have long-term exposure to surface water (i.e., assumed four hours of swimming per day, 70 days per year, for 30 years). These swimming criteria are used because they provide the most conservative (i.e., most protective of human health) screening levels for Frog Mortar Creek.

A table summarizing analytical data, including nondetect results and detection limits, is attached as Appendix C. Since all data discussed herein share the "MSA" prefix, it is dropped when referring to transects or samples (e.g., "SW39" refers to transect MSA-SW39), to improve readability. Likewise, although shown on tables and figures, data qualifiers such as '*J*' are not used in the text discussions to increase readability.

4.2 VOLATILE ORGANIC COMPOUND SURFACE WATER SAMPLING RESULTS

Eight VOCs were detected during the March 2021 surface water sampling event; all were detected at multiple locations except TCE, which was detected only once at location SW49A. All VOCs detected were below their specific screening criterion except for VC, which exceeded its site-specific swimming criterion (0.7 µg/L) at eight locations. The March 2021 analytical results are summarized below and in Tables 4-1 and 4-2. Detections of *cis*-1,2-DCE are shown on Figure 4-1 and VC detections are shown on Figure 4-2. Table 4-3 and Figure 4-3 compares March 2021 results for TCE, *cis*-1,2-DCE, and VC to results detected during the previous sampling round (December 2020) and the sampling round from one year ago (March 2020).

4.2.1 Trichloroethene Results

As stated above, TCE was detected at one sampling location (SW49A) only at a concentration of 0.71 µg/L, which is below its lowest screening level (i.e., swimming criterion of 10 µg/L). This low detection result observed is consistent with the decreasing trend of TCE observed in Frog Mortar Creek since March 2019. TCE was not detected during the March 2020 sampling round and was detected at low concentrations at two locations in December 2020 (0.15 µg/L at SW41A and 0.29 µg/L at SW49A). TCE was nondetect during the first five sampling events last year (March, June, July, August, and September 2020).

4.2.2 *cis*-1,2-Dichloroethene Results

cis-1,2-DCE was detected at 16 of 32 sampling locations in March 2021 with concentrations ranging from 0.16 µg/L to 2.2 µg/L (SW49A) and did not exceed its lowest screening level (i.e., swimming criterion of 300 µg/L) at any location (Figure 4-1). *cis*-1,2-DCE was detected at low concentrations at three locations in March 2020, and at seven locations in December 2020. All detections were well below the lowest screening level.

When detected in previous rounds, the distributions of *cis*-1,2-DCE in the higher concentration transects tended to decrease with increasing distance from the shore. This trend was observed in March 2021, as *cis*-1,2-DCE concentrations at transect SW42 decreased with increasing distance from the shore, with concentrations of 1.4 µg/L (SW42A), 0.55 µg/L (SW42B), 0.55 µg/L (SW42C), and 0.31 µg/L (SW42D).

4.2.3 Vinyl Chloride Results

VC was detected at 19 of the 32 sampling locations in March 2021, exceeding its lowest site-specific screening criterion (swimming) of 0.7 µg/L at eight locations with concentrations ranging from 0.78 µg/L to 4.5 µg/L (SW40A). Figure 4-2 shows the distribution of VC in Frog Mortar Creek during the March 2021 sampling round, with exceedances of the swimming criteria shown in bold font.

VC was detected at six of 32 locations during the December 2020 round, at concentrations below its lowest screening level. VC was also detected at seven of 32 locations the previous year (in March 2020), with only one slight exceedance (1.0 at SW42A) of its swimming screening criterion detected during that round.

When detected in previous rounds, VC distributions in the higher concentration transects tended to decrease with increasing distance from the shore. This trend was observed in March 2021 as well, with VC concentrations at transect SW42 of 2.1 µg/L (SW42A), 0.88 µg/L (SW42B), 0.86 µg/L (SW42C), and 0.78 µg/L (SW42D).

4.2.4 Tentatively Identified Compound Results

A TIC search was performed for chlorodifluoromethane, and the compound was not detected in any of the samples analyzed.

SECTION 5
SUMMARY

The Lockheed Martin Corporation March 2021 Frog Mortar Creek surface-water investigation results are summarized below:

- Thirty-two surface water samples were collected on March 8, 2021, and chemically analyzed to assess concentrations of chemical constituents in Frog Mortar Creek, and particularly to evaluate creek surface-water quality near the Dump Road Area (DRA). Each sample was collected at approximately one foot below the water surface.
- Samples were collected along seven transects spaced approximately 350 feet apart (for 28 samples) along the western shoreline of Frog Mortar Creek. Along each transect, one sample was collected near the shoreline ("A" sample), one was collected approximately 50 feet from the shoreline ("B" sample), one was collected approximately 100 feet from the shoreline ("C" sample), and one was collected approximately 200 feet from the shoreline ("D" sample). In addition to the samples collected along transects, four single point shoreline samples were collected, including SW46A (between transects SW42 and SW40), SW47A (between transects SW40 and SW38), SW48A (between transects SW38 and SW41), and SW49A (between transects SW41 and SW43), for a total of 32 samples.
- Samples collected in March 2021 from Frog Mortar Creek were analyzed for volatile organic compounds (VOCs).
- The data were validated in accordance with the United States Environmental Protection Agency (USEPA) Region III Modifications to the National Functional Guidelines for Data Review (USEPA, 2017), and the specifics of the analytical methods used.
- Sampling results were screened against (1) United States Environmental Protection Agency Region 3 Biological Technical Advisory Group (BTAG) ecological screening-benchmarks for freshwater; (2) United States Environmental Protection Agency national recommended water quality criteria (NRWQC) for acute and chronic aquatic-organism exposures and for human health aquatic-organism-consumption; (3) Maryland ambient water quality criteria (AWQC) for acute and chronic aquatic-organism exposures and for human health aquatic-organism-consumption; and (4) site-specific screening levels developed to evaluate risks to recreational swimmers from exposure to the three most frequently detected volatile organic compounds in surface water: trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC).
- Eight volatile organic compounds, including 1,2,4-trimethylbenzene, *cis*-1,2-dichloroethene, *m*+*p*-xylenes, *o*-xylene, toluene, total xylenes, trichloroethene, and

vinyl chloride were detected in the March 2021 sampling round. Detected concentrations for all except vinyl chloride were below available respective water quality screening criteria.

- Vinyl chloride was detected at 19 of 32 sampling locations, with eight of 19 detections above its lowest screening criterion (swimming) of 0.7 micrograms per liter (µg/L). The range of detected concentrations for vinyl chloride in March 2021 was 0.21 µg/L to 4.5 µg/L, with the highest concentration observed at MRC-SW40A.
- The next surface water sampling event will occur in June 2021.

SECTION 6
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FIGURES

Figure 1-1 Martin State Airport, Site Location Map

Figure 2-1 Martin State Airport and Surrounding Features

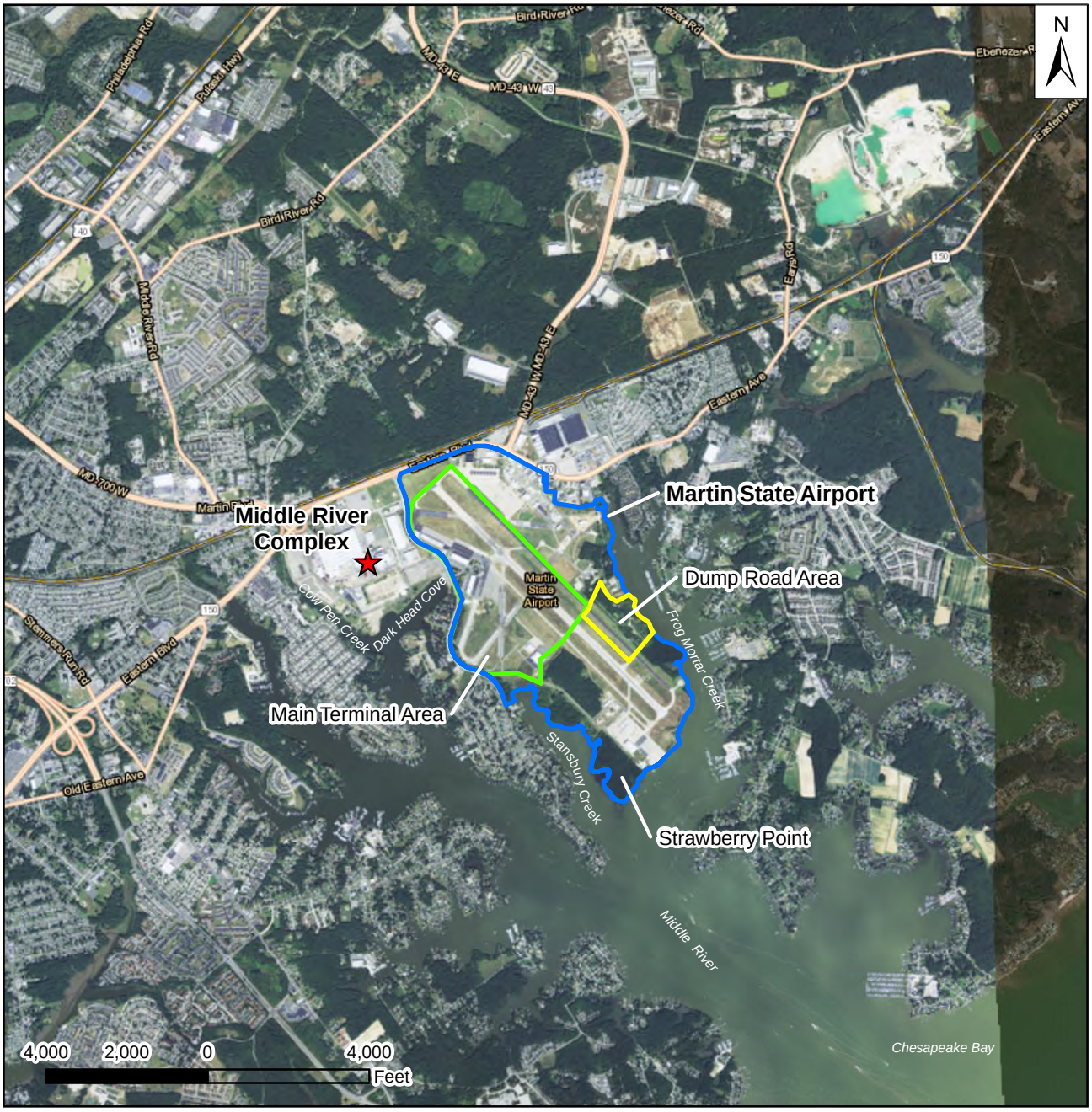
Figure 2-2 Site Features and Areas of Concern, Dump Road Area

Figure 3-1 March 2021 Surface Water Sampling Locations, Frog Mortar Creek

Figure 4-1 Concentrations of *cis*-1,2-Dichloroethene in Surface Water Samples, March 2021

Figure 4-2 Concentrations of Vinyl Chloride in Surface Water Samples, March 2021

Figure 4-3 Concentrations of Trichloroethene, *cis*-1,2-Dichloroethene, and Vinyl Chloride along Surface Water Sampling Transects for March 2020, December 2020, and March 2021, Frog Mortar Creek



Aerial photograph provided by ESRI's ArcGIS Online World Imagery map service (© 2013 ESRI and its data suppliers).

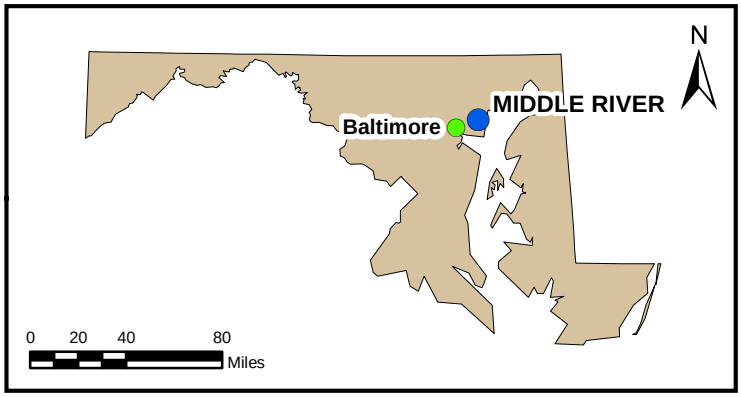


FIGURE 1-1

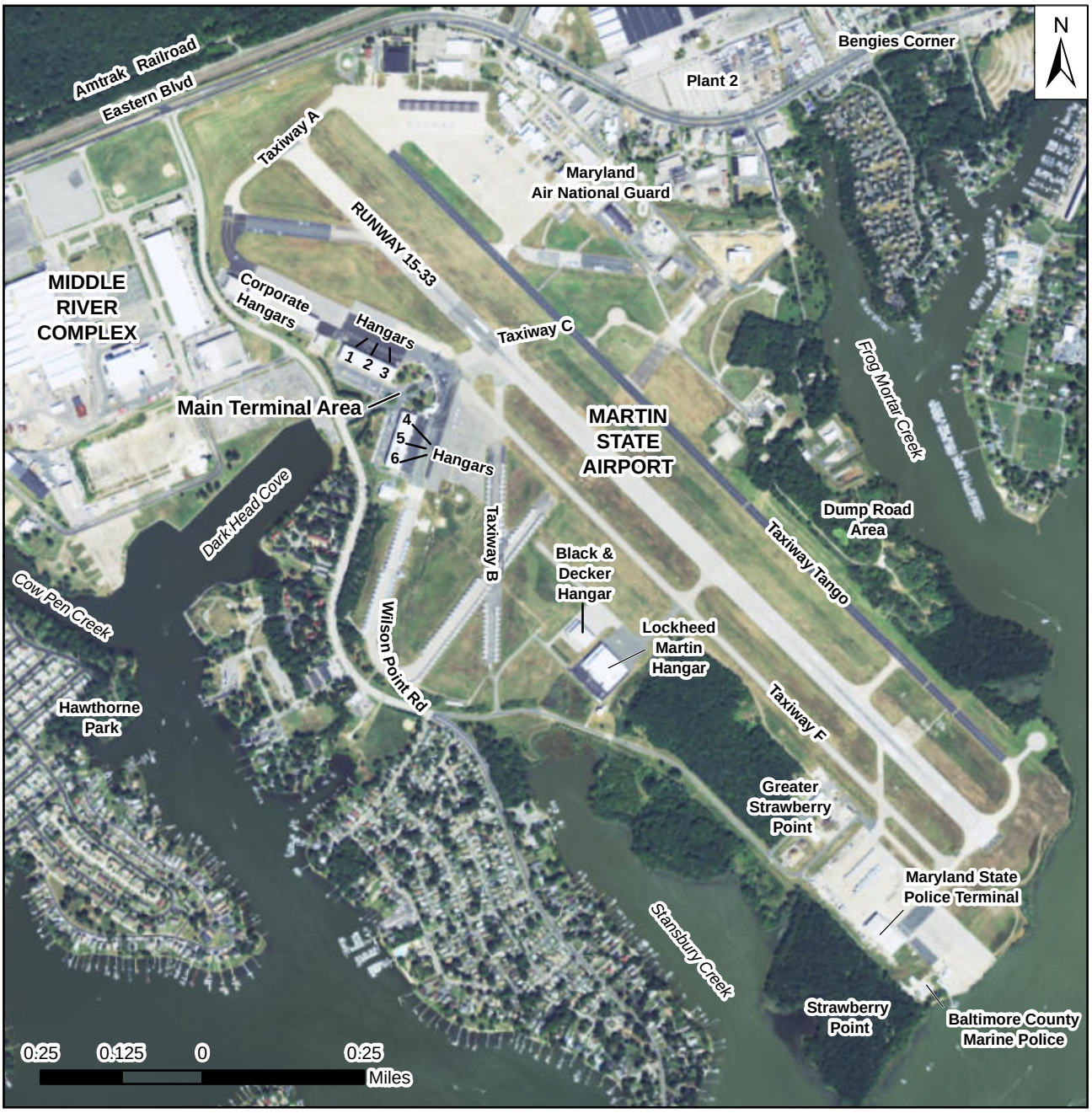
MARTIN STATE AIRPORT
SITE LOCATION MAP

Lockheed Martin, Martin State Airport
Middle River, Maryland

DATE MODIFIED:	CREATED BY:
12/16/15	JEE

TETRA TECH

Map Document: (P:\GIS\Lockheed_MSA\MapDocs\MXD\msa_overview_dec2015.mxd)
12/16/15 -- JEE



Aerial photograph provided by ESRI's ArcGIS Online World Imagery map service (© 2013 ESRI and its data suppliers).

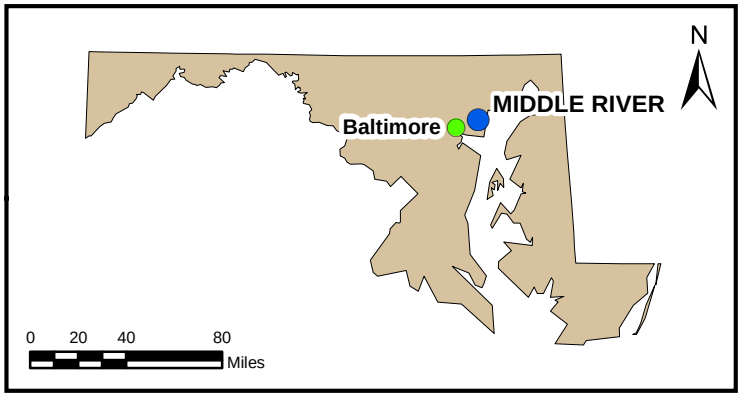


FIGURE 2-1

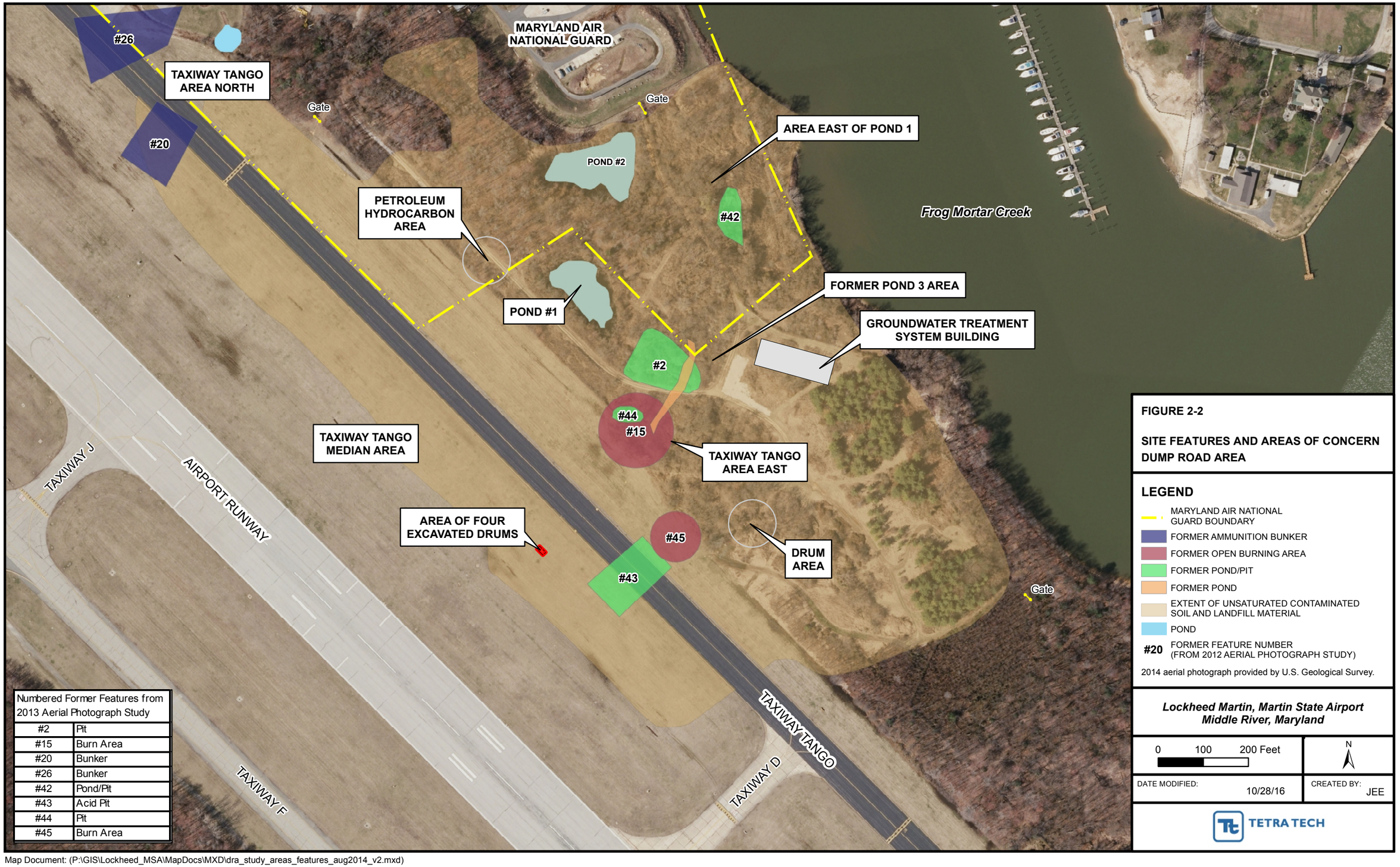
MARTIN STATE AIRPORT AND SURROUNDING FEATURES

Lockheed Martin, Martin State Airport
Middle River, Maryland

DATE MODIFIED:	CREATED BY:
08/27/15	JEE

TETRA TECH

Map Document: (P:\GIS\Lockheed_MSA\MapDocs\MXD\msa_features_sitemap_jul2015.mxd)
08/27/15 -- JEE



Numbered Former Features from 2013 Aerial Photograph Study	
#2	Pit
#15	Burn Area
#20	Bunker
#26	Bunker
#42	Pond/Pit
#43	Acid Pit
#44	Pit
#45	Burn Area

FIGURE 2-2

SITE FEATURES AND AREAS OF CONCERN DUMP ROAD AREA

LEGEND

- MARYLAND AIR NATIONAL GUARD BOUNDARY
- FORMER AMMUNITION BUNKER
- FORMER OPEN BURNING AREA
- FORMER POND/PIT
- FORMER POND
- EXTENT OF UNSATURATED CONTAMINATED SOIL AND LANDFILL MATERIAL
- POND
- #20 FORMER FEATURE NUMBER (FROM 2012 AERIAL PHOTOGRAPH STUDY)

2014 aerial photograph provided by U.S. Geological Survey.

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 100 200 Feet

N

DATE MODIFIED: 10/28/16

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Lockheed_MSA\MapDocs\MXD\dra_study_areas_features_aug2014_v2.mxd)
10/28/16 -- JEE



FIGURE 3-1

MARCH 2021 SURFACE WATER SAMPLING LOCATIONS FROG MORTAR CREEK

LEGEND

- SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- OUTLINE OF FORMER COVE
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- EXTENT OF UNSATURATED CONTAMINATED SOIL AND LANDFILL MATERIAL - DUMP ROAD AREA
- POND

Samples collected March 8, 2021.
2017 aerial photograph provided by the State of Maryland.

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 150 300 Feet

N

DATE MODIFIED: 05/25/21

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Lockheed_MSA\MapDocs\MXD\fmc_sw_samplocs_202103.mxd)
05/25/21 -- JEE



FIGURE 4-1

CONCENTRATIONS OF CIS-1,2-DICHLOROETHENE IN SURFACE WATER SAMPLES, MARCH 2021 FROG MORTAR CREEK

LEGEND

- SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- OUTLINE OF FORMER COVE
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- EXTENT OF UNSATURATED CONTAMINATED SOIL AND LANDFILL MATERIAL - DUMP ROAD AREA
- POND

(2.1) = CIS-1,2-DICHLOROETHENE CONCENTRATION
J = ESTIMATED VALUE
- - = NOT DETECTED
CONCENTRATION IN MICROGRAMS PER LITER (UG/L)

SCREENING LEVELS FOR CIS-1,2-DICHLOROETHENE
ECOLOGICAL SURFACE WATER: 590 UG/L
HUMAN HEALTH
(CONSUMPTION OF ORGANISM): NONE
SITE SPECIFIC SWIMMING: 300 UG/L

SAMPLES COLLECTED MARCH 8, 2021.
2017 AERIAL PHOTOGRAPH PROVIDED BY THE STATE OF MARYLAND.

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 150 300 Feet

N

DATE MODIFIED: 05/27/21

CREATED BY: JEE

TETRA TECH

Map Document: (P:\GIS\Lockheed_MSA\MapDocs\MXD\fmc_sw_cis12dce_results_202103.mxd)
05/27/21 -- JEE



FIGURE 4-2

CONCENTRATIONS OF VINYL CHLORIDE IN SURFACE WATER SAMPLES, MARCH 2021 FROG MORTAR CREEK

LEGEND

- CONCENTRATION EXCEEDS A SCREENING LEVEL
- SURFACE WATER SAMPLE LOCATION
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- OUTLINE OF FORMER COVE
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- EXTENT OF UNSATURATED CONTAMINATED SOIL AND LANDFILL MATERIAL - DUMP ROAD AREA
- POND

(0.62) = VINYL CHLORIDE CONCENTRATION
J = ESTIMATED VALUE
- - = NOT DETECTED
CONCENTRATION IN MICROGRAMS PER LITER (UG/L)

SCREENING LEVELS FOR VINYL CHLORIDE
ECOLOGICAL SURFACE WATER: 930 UG/L
HUMAN HEALTH
(CONSUMPTION OF ORGANISM): 16 UG/L
SITE SPECIFIC SWIMMING: 0.7 UG/L

SAMPLES COLLECTED MARCH 8, 2021.
2017 AERIAL PHOTOGRAPH PROVIDED BY THE STATE OF MARYLAND.

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 150 300 Feet

N

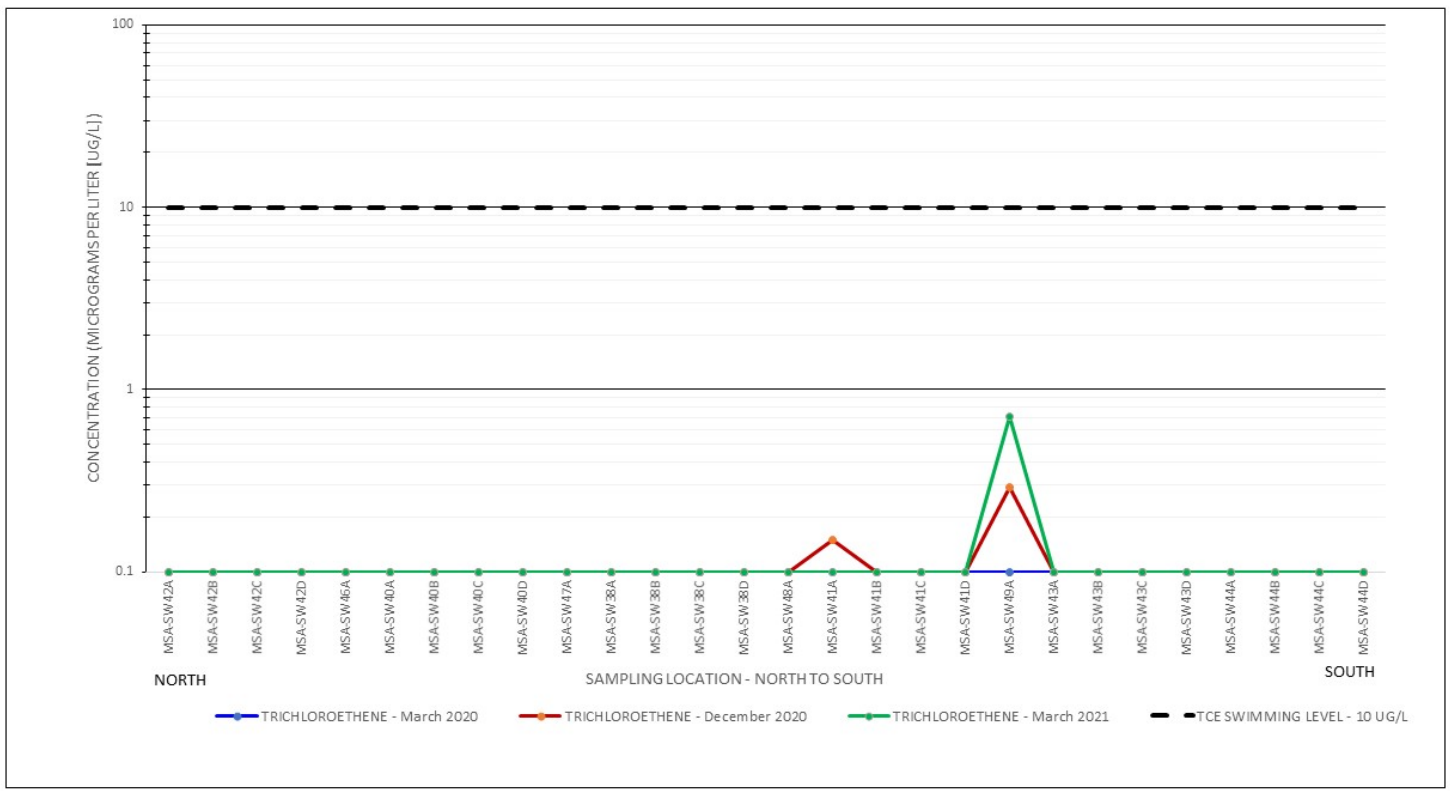
DATE MODIFIED: 05/27/21

CREATED BY: JEE

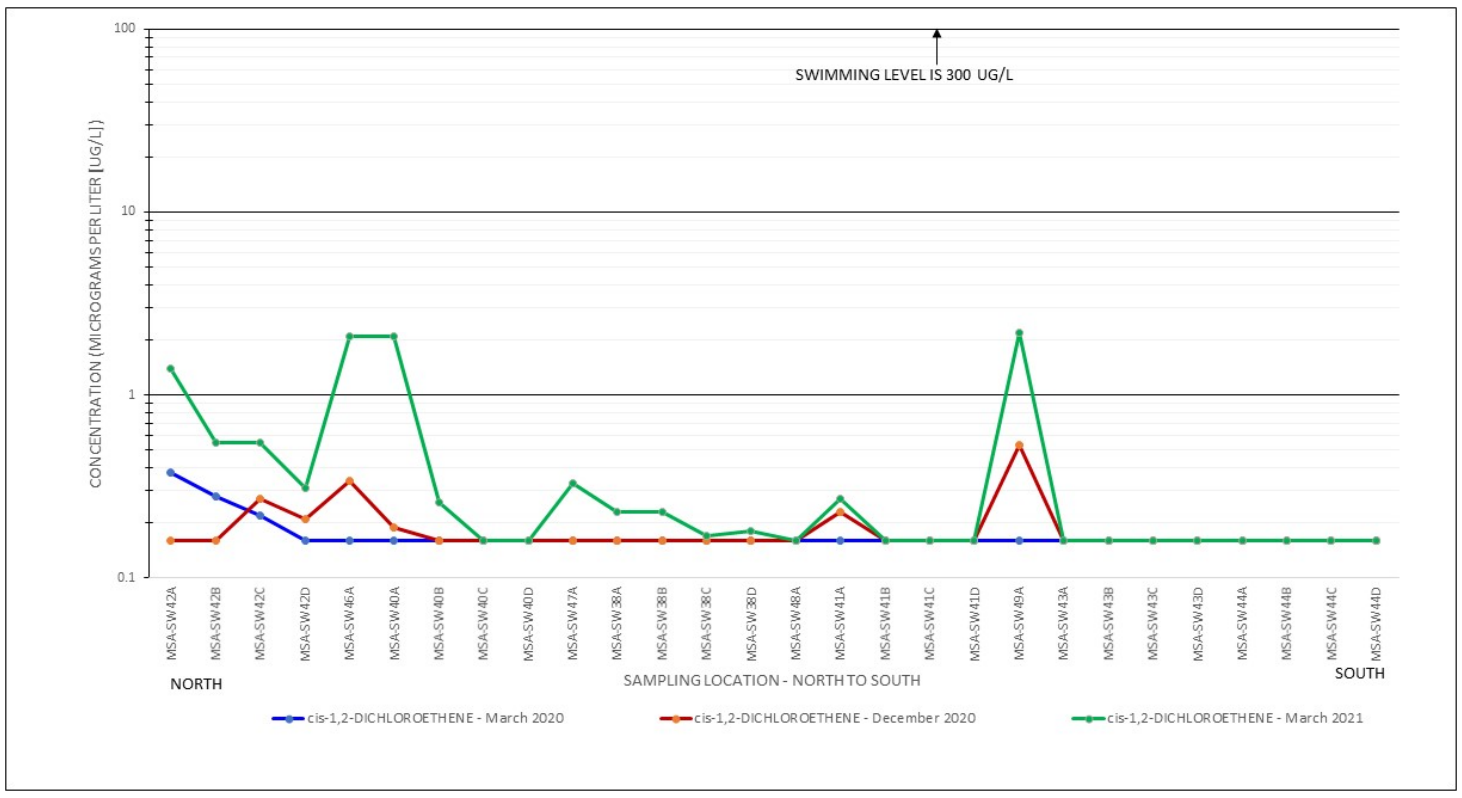
TETRA TECH

Map Document: (P:\GIS\Lockheed_MSA\MapDocs\MXD\fmc_sw_VC_results_202103.mxd)
05/27/21 -- SP

TRICHLOROETHENE



CIS-1,2-DICHLOROETHENE



VINYL CHLORIDE

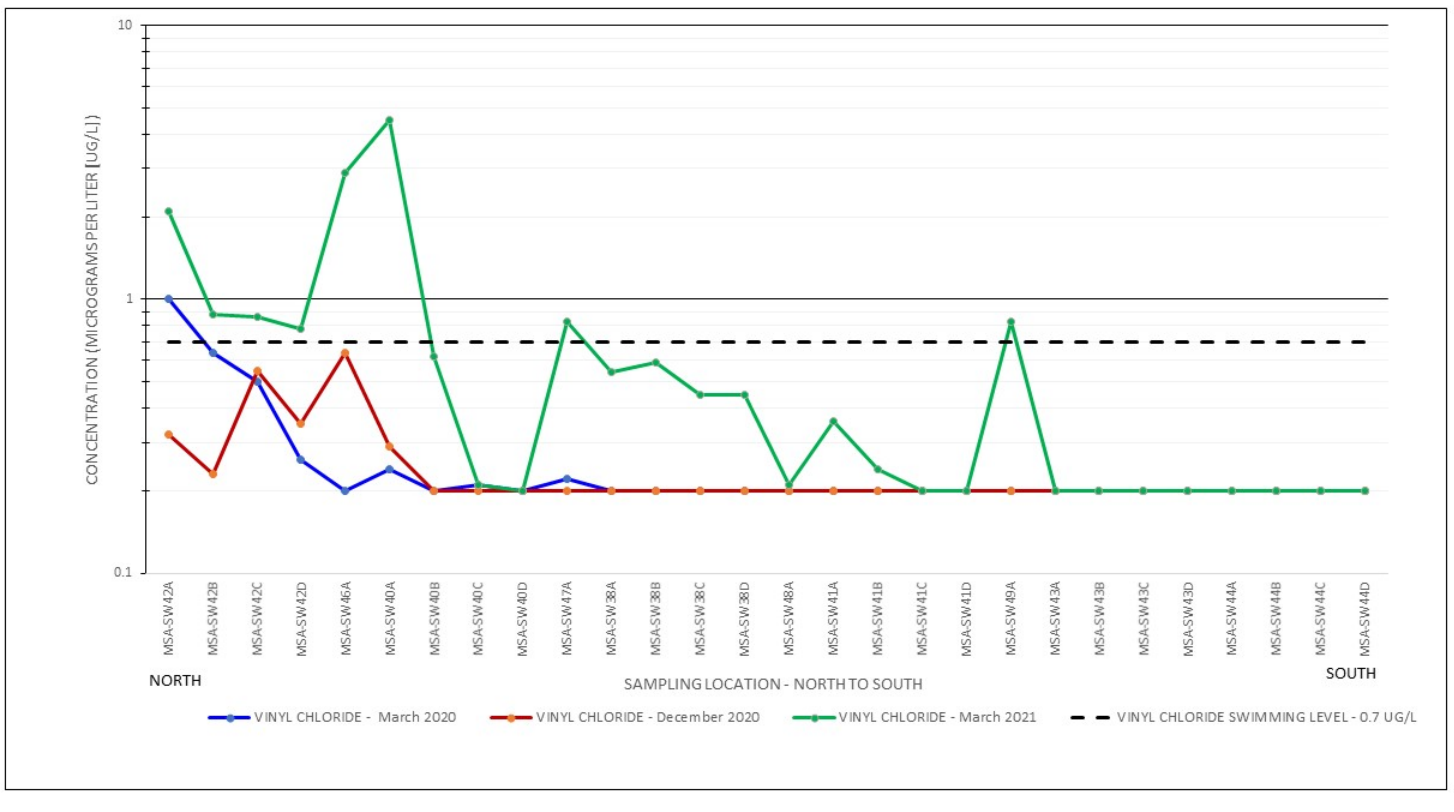


FIGURE 4-3

CONCENTRATIONS OF TRICHLOROETHENE, cis-1,2-DICHLOROETHENE AND VINYL CHLORIDE ALONG SURFACE WATER SAMPLING TRANSECTS FOR MARCH 2020, DECEMBER 2020, AND MARCH 2021, FROG MORTAR CREEK

Lockheed Martin, Martin State Airport
Middle River, Maryland

DATE MODIFIED:	CREATED BY:
5/24/2021	JAM

TETRA TECH

TABLES

Table 3-1 List of Samples and Chemical Analyses for Surface Water—March 2021

Table 4-1 Statistical Summary of Analytes Detected in Surface Water Samples—March 2021

Table 4-2 Detected Analytes and Screening-Level Exceedances in Surface Water Samples—March 2021

Table 4-3 Comparison of Primary Volatile Organic Compound Results Detected in Surface Water for the March 2020, December 2020, and March 2021 Sampling Rounds

Table 3-1
List of Samples and Chemical Analyses for Surface Water—March 2021
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

Surface water sampling location/ Transect No.[1]	Analytical Requirements Volatile organic compounds (USEPA SW846 8260C) 3 × 40 mL vials with hydrochloric acid
MSA-SW37	✓
MSA-SW38	✓
MSA-SW40	✓
MSA-SW41	✓
MSA-SW42	✓
MSA-SW43	✓
MSA-SW44	✓
MSA-SW46	✓
MSA-SW47	✓
MSA-SW48	✓
MSA-SW49	✓
EL-SW01[2]	✓[2]

1. Four samples, at locations -A, -B, -C, and -D, were collected from each transect, except for sampling locations SW46, SW47, SW48, and SW49, where only western shore "A" samples were collected.

2. The Edwards Lane (EL) transect will only sampled in June 2021.

mL – milliliter

USEPA – United States Environmental Protection Agency

Table 4-1
Statistical Summary of Analytes Detected in Surface Water Samples—March 2021
Frog Mortar Creek, Middle River, Maryland

March 2021 Frog Mortar Creek Surface Water Samples										
Parameter	Frequency of Detection		Minimum concentration detected	Maximum concentration detected	Location of maximum detected concentration	Average of detected results	Average of All Results	Minimum nondetect concentration	Minimum nondetect concentration	Standard deviation
	Number	Percent								
Volatile organic compounds (µg/L)										
1,2,4-TRIMETHYLBENZENE	13/32	41	0.1 J	0.19 J	MSA-SW42B	0.131538	0.074218	0.07	0.07	0.0512758
CIS-1,2-DICHLOROETHENE	16/32	50	0.16 J	2.2	MSA-SW49A	0.701875	0.390937	0.16	0.16	0.622458
M+P-XYLENES	22/32	69	0.13 J	0.41 J	MSA-SW42B	0.239545	0.177187	0.08	0.08	0.1117669
O-XYLENE	14/32	44	0.1 J	0.16 J	MSA-SW40,42B	0.123571	0.079375	0.09	0.09	0.0416349
TOLUENE	32/32	100	0.14 J	0.47 J	MSA-SW40B	0.26375	0.26375	NULL	NULL	0.0816661
TOTAL XYLENES	21/32	66	0.15 J	0.57 J	MSA-SW42B	0.327142	0.240468	0.15	0.15	0.1576816
TRICHLOROETHENE	1/32	3	0.71 J	0.71 J	MSA-SW49A	0.71	0.070625	0.1	0.1	0.1166726
VINYL CHLORIDE	19/32	59	0.21 J	4.5	MSA-SW40A	0.938947	0.598125	0.2	0.2	0.9346224

All samples were collected on March 8, 2021.
For non-detects, one-half the sample quantitation limit was used as a proxy concentration.
One-half the detection limit was used for blank (B)-qualified data.
J - estimated value
µg/L - micrograms per liter

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—March 2021
Frog Mortar Creek, Middle River, Maryland

LOCATION	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only[1][3]	Swimming Screening Levels[4]	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW37D	MSA-SW38A	MSA-SW38B	MSA-SW38C	MSA-SW38D	MSA-SW40A	MSA-SW4
SAMPLE ID						MSA-SW37A-030821	MSA-SW37B-030821	MSA-SW37C-030821	MSA-SW37D-030821	MSA-SW38A-030821	MSA-SW38B-030821	MSA-SW38C-030821	MSA-SW38D-030821	MSA-SW40A-030821	MSA-SW4 030821
SAMPLE DATE	Acute	Chronic				20210308	20210308	20210308	20210308	20210308	20210308	20210308	20210308	20210308	2021030
Voltaile organic compounds (µg/L)															
1,2,4-TRIMETHYLBENZENE	NC	NC	33	NC	NC	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U	0.11 J	0.07 U	0.07 U	0.07 U	0.16
CIS-1,2-DICHLOROETHENE	NC	NC	NC	590	300	0.16 U	0.16 U	0.19 J	0.16 U	0.23 J	0.23 J	0.17 J	0.18 J	2.1	0.26
M+P-XYLENES	NC	NC	NC	NC	NC	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.25 J	0.19 J	0.13 J	0.38
O-XYLENE	NC	NC	NC	NC	NC	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.12 J	0.09 U	0.09 U	0.16
TOLUENE	NC	NC	2	520	NC	0.14 J	0.19 J	0.19 J	0.21 J	0.16 J	0.21 J	0.33 J	0.21 J	0.19 J	0.47
TOTAL XYLENES	NC	NC	13	NC	NC	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.37 J	0.19 J	0.15 U	0.54
TRICHLOROETHENE	NC	NC	21	7	NC	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1
VINYL CHLORIDE	NC	NC	930	24	0.75	0.2 U	0.2 U	0.28 J	0.21 J	0.54 J	0.59 J	0.45 J	0.45 J	4.5	0.62

All samples were collected on March 8, 2021.
1-National Recommended Water Quality Criteria, https://www.epa.gov/wqc/national-recommended-water-quality-criteria and Maryland Numerical Criteria for Toxic Substances in Surface Waters, COMAR 26.08.02.03, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

2 -USEPA Region 3 Biological Technical Advisory Group Freshwater Screening Benchmarks (USEPA 2006).
3-For carcinogens, criterion is for incremental cancer risk of $1x10^{-5}$.
4-Site-specific swimming screening levels developed for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride in 2018 were approved by the Maryland Department of the Environment in 2019.

Gray shading indicates the value exceeds at least one of the screening criteria.

-- - Not detected at the method detection limit
µg/L - micrograms per liter
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NC - no criteria
SW - surface water
U - not detected at the method detection limit
USEPA - US Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—March 2021
Frog Mortar Creek, Middle River, Maryland

LOCATION						0B	MSA-SW40C	MSA-SW40D	MSA-SW41A	MSA-SW41B	MSA-SW41C	MSA-SW41D	MSA-SW42A	MSA-SW42B	MSA-SW42C
SAMPLE ID	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only[1][3]	Swimming Screening Levels[4]	0B-	MSA-SW40C-030821	MSA-SW40D-030821	MSA-SW41A-030821	MSA-SW41B-030821	MSA-SW41C-030821	MSA-SW41D-030821	MSA-SW42A-030821	MSA-SW42B-030821	MSA-SW42C-030821
SAMPLE DATE	Acute	Chronic				8	20210308	20210308	20210308	20210308	20210308	20210308	20210308	20210308	20210308
Voltaile organic compounds (µg/L)															
1,2,4-TRIMETHYLBENZENE	NC	NC	33	NC	NC	J	0.16 J	0.11 J	0.07 U	0.07 U	0.07 U	0.07 U	0.14 J	0.19 J	0.16 J
CIS-1,2-DICHLOROETHENE	NC	NC	NC	590	300	J	0.16 U	0.16 U	0.27 J	0.16 U	0.16 U	0.16 U	1.4	0.55 J	0.55 J
M+P-XYLENES	NC	NC	NC	NC	NC	J	0.32 J	0.27 J	0.15 J	0.22 J	0.18 J	0.08 U	0.29 J	0.41 J	0.3 J
O-XYLENE	NC	NC	NC	NC	NC	J	0.11 J	0.11 J	0.09 U	0.12 J	0.1 J	0.09 U	0.15 J	0.16 J	0.13 J
TOLUENE	NC	NC	2	520	NC	J	0.38 J	0.3 J	0.18 J	0.3 J	0.26 J	0.25 J	0.36 J	0.44 J	0.35 J
TOTAL XYLENES	NC	NC	13	NC	NC	J	0.43 J	0.38 J	0.15 J	0.34 J	0.28 J	0.15 U	0.44 J	0.57 J	0.43 J
TRICHLOROETHENE	NC	NC	21	7	NC	U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VINYL CHLORIDE	NC	NC	930	24	0.75	J	0.21 J	0.2 U	0.36 J	0.24 J	0.2 U	0.2 U	2.1	0.88 J	0.86 J

All samples were collected on March 8, 2021.
1-National Recommended Water Quality Criteria, https://www.epa.gov/wqc/national-recommended-water-quality-criteria and Maryland Numerical Criteria for Toxic Substances in Surface Waters, COMAR 26.08.02.03, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

2 -USEPA Region 3 Biological Technical Advisory Group Freshwater Screening Benchmarks (USEPA 2006).
3-For carcinogens, criterion is for incremental cancer risk of $1x10^{-5}$.
4-Site-specific swimming screening levels developed for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride in 2018 were approved by the Maryland Department of the Environment in 2019.

Gray shading indicates the value exceeds at least one of the screening criteria.

-- - Not detected at the method detection limit
µg/L - micrograms per liter
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NC - no criteria
SW - surface water
U - not detected at the method detection limit
USEPA - US Environmental Protection Agency

LOCATION	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only[1][3]	Swimming Screening Levels[4]	MSA-SW42D	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW43D	MSA-SW44A	MSA-SW44B	MSA-SW44C	MSA-SW44D	MSA-SW4
SAMPLE ID						MSA-SW42D-030821	MSA-SW43A-030821	MSA-SW43B-030821	MSA-SW43C-030821	MSA-SW43D-030821	MSA-SW44A-030821	MSA-SW44B-030821	MSA-SW44C-030821	MSA-SW44D-030821	MSA-SW4 030821
SAMPLE DATE	Acute	Chronic				20210308	20210308	20210308	20210308	20210308	20210308	20210308	20210308	20210308	2021030
Voltaile organic compounds (µg/L)															
1,2,4-TRIMETHYLBENZENE	NC	NC	33	NC	NC	0.13 J	0.07 U	0.1 J	0.07 U	0.11 J	0.07 U	0.07 U	0.12 J	0.07 U	0.1
CIS-1,2-DICHLOROETHENE	NC	NC	NC	590	300	0.31 J	0.16 U	0.16 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	2.1
M+P-XYLENES	NC	NC	NC	NC	NC	0.28 J	0.08 U	0.24 J	0.16 J	0.17 J	0.17 J	0.2 J	0.23 J	0.2 J	0.23
O-XYLENE	NC	NC	NC	NC	NC	0.12 J	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.1 J	0.11 J	0.09 U	0.12
TOLUENE	NC	NC	2	520	NC	0.33 J	0.16 J	0.28 J	0.23 J	0.24 J	0.21 J	0.26 J	0.3 J	0.25 J	0.3
TOTAL XYLENES	NC	NC	13	NC	NC	0.4 J	0.15 U	0.24 J	0.16 J	0.17 J	0.17 J	0.3 J	0.34 J	0.2 J	0.35
TRICHLOROETHENE	NC	NC	21	7	NC	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1
VINYL CHLORIDE	NC	NC	930	24	0.75	0.78 J	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	2.9

All samples were collected on March 8, 2021.
1-National Recommended Water Quality Criteria, https://www.epa.gov/wqc/national-recommended-water-quality-criteria and Maryland Numerical Criteria for Toxic Substances in Surface Waters, COMAR 26.08.02.03, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

2 -USEPA Region 3 Biological Technical Advisory Group Freshwater Screening Benchmarks (USEPA 2006).
3-For carcinogens, criterion is for incremental cancer risk of $1x10^{-5}$.
4-Site-specific swimming screening levels developed for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride in 2018 were approved by the Maryland Department of the Environment in 2019.

Gray shading indicates the value exceeds at least one of the screening criteria.

-- - Not detected at the method detection limit
µg/L - micrograms per liter
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NC - no criteria
SW - surface water
U - not detected at the method detection limit
USEPA - US Environmental Protection Agency

LOCATION	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only[1][3]	Swimming Screening Levels[4]	6A	MSA-SW47A	MSA-SW48A	MSA-SW49A
SAMPLE ID						6A-8	MSA-SW47A-030821	MSA-SW48A-030821	MSA-SW49A-030821
SAMPLE DATE	Acute	Chronic					20210308	20210308	20210308
Voltaile organic compounds (µg/L)									
1,2,4-TRIMETHYLBENZENE	NC	NC	33	NC	NC	J	0.07 U	0.12 J	0.07 U
CIS-1,2-DICHLOROETHENE	NC	NC	NC	590	300		0.33 J	0.16 U	2.2
M+P-XYLENES	NC	NC	NC	NC	NC	J	0.08 U	0.3 J	0.08 U
O-XYLENE	NC	NC	NC	NC	NC	J	0.09 U	0.12 J	0.09 U
TOLUENE	NC	NC	2	520	NC	J	0.17 J	0.34 J	0.25 J
TOTAL XYLENES	NC	NC	13	NC	NC	J	0.15 U	0.42 J	0.15 U
TRICHLOROETHENE	NC	NC	21	7	NC	U	0.1 U	0.1 U	0.71 J
VINYL CHLORIDE	NC	NC	930	24	0.75		0.83 J	0.21 J	0.83 J

All samples were collected on March 8, 2021.
1-National Recommended Water Quality Criteria, https://www.epa.gov/wqc/national-recommended-water-quality-criteria and Maryland Numerical Criteria for Toxic Substances in Surface Waters, COMAR 26.08.02.03, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

2 -USEPA Region 3 Biological Technical Advisory Group Freshwater Screening Benchmarks (USEPA 2006).
3-For carcinogens, criterion is for incremental cancer risk of $1x10^{-5}$.
4-Site-specific swimming screening levels developed for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride in 2018 were approved by the Maryland Department of the Environment in 2019.

Gray shading indicates the value exceeds at least one of the screening criteria.

-- - Not detected at the method detection limit
µg/L - micrograms per liter
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NC - no criteria
SW - surface water
U - not detected at the method detection limit
USEPA - US Environmental Protection Agency

Table 4-3
Comparison of Primary Volatile Organic Compounds Detected in Surface Water in the March 2020, December 2020, and March 2021 Sampling Rounds
Frog Mortar Creek, Middle River, Maryland

Location ID	Trichloroethene concentrations (µg/L)			*cis* -1,2-Dichloroethene concentrations (µg/L)			Vinyl chloride concentrations (µg/L)		
	March 3, 2020	December 9, 2020	March 8, 2021	March 3, 2020	December 9, 2020	March 8, 2021	March 3, 2020	December 9, 2020	March 8, 2021
Average-Detections	--	**0.220000**	**0.71**	**0.293333**	**0.275714**	**0.701875**	**0.438571**	**0.396666**	**0.938947**
Average-All Samples[(1)]	--	**0.060625**	**0.070625**	**0.1**	**0.122812**	**0.390937**	**0.174062**	**0.155625**	**0.598125**
Maximum Concentration	--	**0.29 J**	**0.71 J**	**0.38 J**	**0.53 J**	**2.2**	**1**	**0.64**	**4.5**
No. of Detections/Samples	--	**2/32**	**1/32**	**3/32**	**7/32**	**16/32**	**7/32**	**6/32**	**19/32**
LOCATION ID									
MSA-SW37A	--	--	--	--	--	--	--	--	--
MSA-SW37B	--	--	--	--	--	--	--	--	--
MSA-SW37C	--	--	--	--	--	0.19 J	--	--	0.28 J
MSA-SW37D	--	--	--	--	--	--	--	--	0.21 J
MSA-SW38A	--	--	--	--	--	0.23 J	--	--	0.54 J
MSA-SW38B	--	--	--	--	--	0.23 J	--	--	0.59 J
MSA-SW38C	--	--	--	--	--	0.17 J	--	--	0.45 J
MSA-SW38D	--	--	--	--	--	0.18 J	--	--	0.45 J
MSA-SW40A	--	--	--	--	0.19 J	2.1	0.24 J	0.29 J	**4.5**
MSA-SW40B	--	--	--	--	--	0.26 J	--	--	0.62 J
MSA-SW40C	--	--	--	--	--	--	0.21 J	--	0.21 J
MSA-SW40D	--	--	--	--	--	--	--	--	--
MSA-SW41A	--	0.15 J	--	--	0.23 J	0.27 J	--	--	0.36 J
MSA-SW41B	--	--	--	--	--	--	--	--	0.24 J
MSA-SW41C	--	--	--	--	--	--	--	--	--
MSA-SW41D	--	--	--	--	--	--	--	--	--
MSA-SW42A	--	--	--	0.38 J	0.16 J	1.4	**1**	0.32 J	**2.1**
MSA-SW42B	--	--	--	0.28 J	--	0.55 J	0.64	0.23 J	**0.88 J**
MSA-SW42C	--	--	--	0.22 J	0.27 J	0.55 J	0.5	0.55	**0.86 J**
MSA-SW42D	--	--	--	--	0.21 J	0.31 J	0.26 J	0.35 J	**0.78 J**
MSA-SW43A	--	--	--	--	--	--	--	--	--
MSA-SW43B	--	--	--	--	--	0.16 J	--	--	--
MSA-SW43C	--	--	--	--	--	--	--	--	--
MSA-SW43D	--	--	--	--	--	--	--	--	--
MSA-SW44A	--	--	--	--	--	--	--	--	--
MSA-SW44B	--	--	--	--	--	--	--	--	--
MSA-SW44C	--	--	--	--	--	--	--	--	--
MSA-SW44D	--	--	--	--	--	--	--	--	--
MSA-SW46A	--	--	--	--	0.34 J	2.1	--	0.64	**2.9**
MSA-SW47A	--	--	--	--	--	0.33 J	0.22 J	--	**0.83 J**
MSA-SW48A	--	--	--	--	--	--	--	--	0.21 J
MSA-SW49A	--	0.29 J	0.71 J	--	0.53 J	2.2	--	--	**0.83 J**

Averages were calculated using 1/2 sample quantitation limit (nondetects) and 1/2 the detection limit (B-qualified data).

Bold font indicates detected concentration exceeded its lowest screening criterion.
J - estimated value
µg/L - micrograms per liter
NA - not analyzed
-- - not detected; the analyte is considered not detected at the reported value

APPENDICES

Appendix A—Field Measurements for Water Quality and Surface-Water-Sample Log Sheets

Appendix B—Data-Validation and Full Laboratory Reports

Appendix C—Chemical-Results Data Table

APPENDIX A—FIELD MEASUREMENTS FOR WATER QUALITY AND SURFACE-WATER-SAMPLE LOG SHEETS

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW37A -030821
Sample Location: MSA-SW37A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1054								
Depth:	1 ft below water	**clear**	**8.1**	**7.31**	**8.21**	**7.47**	**5.88**	**3.9**	**178**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW37B -030821
Sample Location: MSA-SW37B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1100								
Depth:	1 ft below water	**clear**	**8.07**	**7.57**	**7.13**	**7.83**	**5.97**	**4.1**	**179**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 2.5 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW37C -030821
Sample Location: MSA-SW37C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1123								
Depth:	1 ft below water	**clear**	**8.24**	**7.6**	**6.8**	**9.65**	**3.81**	**4.1**	**151**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 4.8 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW37D -030821
Sample Location: MSA-SW37D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1126								
Depth:	1 ft below water	**clear**	**8.26**	**7.6**	**6.92**	**9.07**	**4.07**	**4.1**	**156**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 5.3 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW38A -030821
Sample Location: MSA-SW38A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	951								
Depth:	1 ft below water	**clear**	**8.18**	**7.37**	**6.48**	**9.37**	**3.93**	**3.9**	**213**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.5 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW38B -030821
Sample Location: MSA-SW38B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	956								
Depth:	1 ft below water	**clear**	**8.18**	**7.5**	**6.21**	**6.07**	**4.37**	**4**	**211**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 3.2 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW38C -030821
Sample Location: MSA-SW38C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	959								
Depth:	1 ft below water	**clear**	**8.19**	**7.47**	**6.18**	**7.21**	**4.34**	**4**	**209**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 3.5 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW38D -030821
Sample Location: MSA-SW38D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1002								
Depth:	1 ft below water	**clear**	**8.20**	**7.56**	**6.25**	**7.99**	**3.88**	**4**	**209**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 3.9 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW40A -030821
Sample Location: MSA-SW40A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1013								
Depth:	1 ft below water	**clear**	**8.13**	**7.14**	**7.08**	**8.42**	**4.73**	**3.8**	**202**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 2 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW40B -030821
Sample Location: MSA-SW40B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1017								
Depth:	1 ft below water	**clear**	**8.10**	**7.54**	**6.26**	**6.98**	**4.93**	**4.0**	**197**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 3.8 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW40C -030821
Sample Location: MSA-SW40C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1019								
Depth:	1 ft below water	**clear**	**8.21**	**7.56**	**6.32**	**7.44**	**4.65**	**4.0**	**197**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 5.6 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW40D -030821
Sample Location: MSA-SW40D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1023								
Depth:	1 ft below water	**clear**	**8.26**	**7.56**	**6.45**	**9.00**	**4.49**	**4.1**	**197**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth #REF! meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW41A -030821
Sample Location: MSA-SW41A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	934								
Depth:	1 ft below water	**clear**	**8.09**	**7.52**	**6.58**	**12.89**	**3.87**	**4.0**	**221**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW41B -030821
Sample Location: MSA-SW41B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	935								
Depth:	1 ft below water	**clear**	**8.14**	**7.55**	**6.37**	**7.74**	**4.29**	**4.0**	**220**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 2.1 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW41C -030821
Sample Location: MSA-SW41C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	939								
Depth:	1 ft below water	**clear**	**8.21**	**7.58**	**6.22**	**6.97**	**4.43**	**4.1**	**219**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 3.3 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW41D -030821
Sample Location: MSA-SW41D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	941								
Depth:	1 ft below water	**clear**	**8.25**	**7.58**	**6.26**	**7.27**	**4.19**	**4.1**	**218**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 4.9 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW42A -030821
Sample Location: MSA-SW42A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1039								
Depth:	1 ft below water	**clear**	**8.05**	**7.28**	**7.43**	**8.04**	**5.83**	**3.9**	**174**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.2 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW42B -030821
Sample Location: MSA-SW42B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1042								
Depth:	1 ft below water	**clear**	**8.05**	**7.32**	**7.10**	**7.75**	**5.77**	**3.9**	**168**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 2.2 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW42C -030821
Sample Location: MSA-SW42C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1045								
Depth:	1 ft below water	**clear**	**8.15**	**7.49**	**6.52**	**7.14**	**5.46**	**4.0**	**171**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 3.9 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW42D -030821
Sample Location: MSA-SW42D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1049								
Depth:	1 ft below water	**clear**	**8.22**	**7.57**	**6.58**	**9.15**	**4.72**	**4.1**	**175**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 5 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW43A -030821
Sample Location: MSA-SW43A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	914								
Depth:	1 ft below water	**clear**	**7.87**	**7.38**	**6.59**	**7.98**	**2.88**	**3.9**	**237**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 0.9 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW43B -030821
Sample Location: MSA-SW43B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	916								
Depth:	1 ft below water	**clear**	**7.73**	**7.49**	**6.35**	**6.75**	**2.74**	**4.0**	**233**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 2.2 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW43C -030821
Sample Location: MSA-SW43C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	919								
Depth:	1 ft below water	**clear**	**7.92**	**7.59**	**6.23**	**5.97**	**2.98**	**4.1**	**232**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 4 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW43D -030821
Sample Location: MSA-SW43D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	923								
Depth:	1 ft below water	**clear**	**8.10**	**7.60**	**6.26**	**6.50**	**3.64**	**4.1**	**230**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 4.7 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW44A -030821
Sample Location: MSA-SW44A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	858								
Depth:	1 ft below water	**clear**	**7.16**	**7.14**	**6.73**	**11.10**	**4.85**	**3.8**	**270**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW44B -030821
Sample Location: MSA-SW44B
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	903								
Depth:	1 ft below water	**clear**	**7.08**	**7.40**	**6.33**	**7.46**	**2.94**	**4.0**	**258**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 2.3 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW44C -030821
Sample Location: MSA-SW44C
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	906								
Depth:	1 ft below water	**clear**	**7.58**	**7.54**	**6.32**	**13.10**	**3.14**	**4.0**	**250**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 5 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW44D -030821
Sample Location: MSA-SW44D
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	3/8/2021	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	909								
Depth:	1 ft below water	**clear**	**7.74**	**7.57**	**6.19**	**6.77**	**3.11**	**4.0**	**246**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs + TICs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 5.3 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW46A -030821
Sample Location: MSA-SW46A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	#REF!								
Time:	1031	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**8.05**	**7.25**	**7.11**	**8.05**	**5.03**	**3.9**	**195**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.3 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW47A -030821
Sample Location: MSA-SW47A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	#REF!								
Time:	1006	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**8.16**	**7.45**	**6.74**	**7.18**	**4.09**	**4.0**	**207**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.2 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW48A -030821
Sample Location: MSA-SW48A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	#REF!								
Time:	945	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**8.25**	**7.34**	**6.34**	**6.33**	**4.00**	**3.9**	**217**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.3 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09343

[] Stream
[] Spring
[] Pond
[] Lake
[X] Other: Tidal creek - freshwater
[] QA Sample Type:

Sample ID No.: MSA-SW49A -030821
Sample Location: MSA-SW49A
Sampled By: J. Mullis
C.O.C. No.:

Type of Sample:
[x] Low Concentration
[] High Concentration

SAMPLING DATA:

		Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Date:	#REF!								
Time:	928	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**8.07**	**7.47**	**6.63**	**8.10**	**3.16**	**4.0**	**225**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL pH<2	3 - 40 mL glass vials	Yes

OBSERVATIONS / NOTES:

Water depth 1.1 meters

MAP:



Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

APPENDIX B—DATA-VALIDATION AND FULL LABORATORY REPORTS

TETRA TECH

INTERNAL CORRESPONDENCE

TO: **S. BRENNER** **DATE:** **MAY 5, 2021**

FROM: **T. SOLOMON** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOCs**
LOCKHEED MARTIN CORPORATION (LMC) – MARTIN STATE AIRPORT (MSA)
FROG MORTAR CREEK SURFACE WATER SAMPLING
SDG 240-145599-1

SAMPLES: 32/Aqueous/
VOC

MSA-SW37A-030821	MSA-SW37B-030821	MSA-SW37C-030821
MSA-SW37D-030821	MSA-SW38A-030821	MSA-SW38B-030821
MSA-SW38C-030821	MSA-SW38D-030821	MSA-SW40A-030821
MSA-SW40B-030821	MSA-SW40C-030821	MSA-SW40D-030821
MSA-SW41A-030821	MSA-SW41B-030821	MSA-SW41C-030821
MSA-SW41D-030821	MSA-SW42A-030821	MSA-SW42B-030821
MSA-SW42C-030821	MSA-SW42D-030821	MSA-SW43A-030821
MSA-SW43B-030821	MSA-SW43C-030821	MSA-SW43D-030821
MSA-SW44A-030821	MSA-SW44B-030821	MSA-SW44C-030821
MSA-SW44D-030821	MSA-SW46A-030821	MSA-SW47A-030821
MSA-SW48A-030821	MSA-SW49A-030821	

1/Trip Blank/
VOC

TB-030821

Overview

The sample set for LMC-MSA Frog Mortar Creek, SDG 240-145599-1, consisted of thirty-two (32) aqueous environmental samples and one (1) trip blank. All thirty-three (33) aqueous samples were analyzed for volatile organic compounds (VOCs) and tentatively identified compounds (TICs). No field duplicate sample pair was included in this SDG.

The samples were collected by Tetra Tech, Inc. on March 8, 2021 and analyzed by Eurofins TestAmerica, Inc. All analyses were conducted in accordance with SW-846 Method 8260C analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters: data completeness, holding times, GC/MS tuning, initial/continuing calibrations, laboratory method/trip blanks, surrogate spike recoveries, laboratory control sample / laboratory control sample duplicate results, matrix spike / matrix spike duplicate results, internal standard results, chromatographic resolution, compound identification, tentatively identified compounds, compound quantitation, and detection limits. Areas of concern are listed below.

Major

- As stated in the laboratory case narrative, 2-chloroethyl vinyl ether cannot be reliably recovered in an acid preserved samples. All samples in this SDG were acid preserved. The non-detected results reported for 2-chloroethyl vinyl ether were qualified as rejected, (UR) in the acid preserved samples.

Minor

- The VOC continuing calibration performed on instrument A3UX16 on 03/11/2021 @ 9:08 had percent differences (%Ds) for bromomethane, 1,1,2-trichlorotrifluoroethane and tert-butyl alcohol which exceeded the quality control limits. Samples MSA-SW37A-030821, MSA-SW37B-030821, MSA-SW37C-030821, MSA-SW37D-030821, MSA-SW38A-030821, MSA-SW38B-030821, MSA-SW38C-030821, MSA-SW38D-030821, MSA-SW40A-030821, MSA-SW40B-030821, MSA-SW40C-030821, MSA-SW40D-030821, MSA-SW41A-030821, MSA-SW41B-030821, MSA-SW41C-030821 and MSA-SW41D-030821 were affected. The non-detected results reported for these compounds in the affected samples were qualified as estimated, (UJ).

- The VOC continuing calibration performed on instrument A3UX16 on 03/16/2021 @ 10:39 had %Ds for dichlorodifluoromethane, chloromethane, vinyl chloride and 1,1,2-trichlorotrifluoroethane which exceeded the quality control limit. Samples MSA-SW42A-030821, MSA-SW42B-030821, MSA-SW42C-030821, MSA-SW46A-030821, MSA-SW47A-030821, MSA-SW48A-030821 and MSA-SW49A-030821 were affected. The detected and non-detected results reported for these compounds in the affected samples (with the exception of samples MSA-SW42A-030821, MSA-SW42B-030821, MSA-SW42C-030821 and MSA-SW46A-030821 for vinyl chloride) were qualified as estimated, (J) and (UJ), respectively.

- The VOC continuing calibration performed on instrument A3UX19 on 03/15/2021 @ 19:04 had %Ds for chloromethane, vinyl chloride, chloroethane, 1,1-dichloroethene, trans-1,2-dichloroethene, 1,1-dichloroethane, bromochloromethane, 1,2-dichloropropane, dibromomethane and 1,1,2,2-tetrachloroethane which exceeded the quality control limits. Samples MSA-SW42D-030821, MSA-SW43A-030821, MSA-SW43B-030821, MSA-SW43C-030821, MSA-SW43D-030821, MSA-SW44A-030821, MSA-SW44B-030821, MSA-SW44C-030821, MSA-SW44D-030821 and TB-030821 were affected. The detected and non-detected results reported for these compounds in the affected samples were qualified as estimated, (J) and (UJ), respectively.

- A Tentatively Identified Compound (TIC) search was performed for the compound chlorodifluoromethane. The laboratory did not detect this compound in the samples in this SDG. The laboratory assigned a Reporting Limit (RL) of 1 µg/L. Because the GC/MS was not calibrated for this compound, the RL is not based on a representative detection limit. The non-detected results reported for chlorodifluoromethane were qualified as estimated, (UJ).

- Detected results reported below the RL but above the Method Detection Limit (MDL) were qualified as estimated, (J).

Notes

Non-detected results were reported to the MDL.

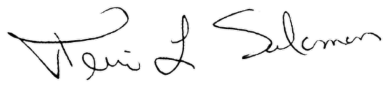
A TIC search was performed on all samples. No detected results were identified.

Executive Summary

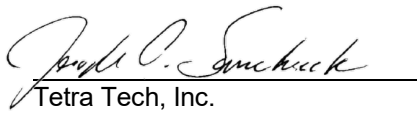
Laboratory Performance: Several continuing calibration %Ds exceeded quality control limits. Non-detected chlorodifluoromethane results were estimated because the compound was evaluated via TIC library search.

Other Factors Affecting Data Quality: 2-Chloroethyl vinyl ether results were rejected because the samples were acid preserved. Results below the RL were estimated.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Review" (January 2017). The text of this report has been formulated to address only those areas affecting data quality.



Tetra Tech, Inc.
Terri L. Solomon
Chemist/Data Validator



Tetra Tech, Inc.
Joseph A. Samchuck
Data Validation Manager

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted detection limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the reporting limit).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.

Appendix A

Qualified Analytical Results

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed
Z3 = Tentatively Identified Compound aldol condensate
Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 09343	NSAMPLE	MSA-SW37A-030821			MSA-SW37B-030821			MSA-SW37C-030821			MSA-SW37D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-1			240-145599-2			240-145599-3			240-145599-4		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	UJ	C	0.42	UJ	C	0.42	UJ	C	0.42	UJ	C

PROJ_NO: 09343	NSAMPLE	MSA-SW38A-030821			MSA-SW38B-030821			MSA-SW38C-030821			MSA-SW38D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-5			240-145599-6			240-145599-7			240-145599-8		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.11	J	P	0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	UJ	C	0.42	UJ	C	0.42	UJ	C	0.42	UJ	C

PROJ_NO: 09343	NSAMPLE	MSA-SW40A-030821			MSA-SW40B-030821			MSA-SW40C-030821			MSA-SW40D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-9			240-145599-10			240-145599-11			240-145599-12		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.16	J	P	0.16	J	P	0.11	J	P
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	UJ	C	0.42	UJ	C	0.42	UJ	C	0.42	UJ	C

PROJ_NO: 09343	NSAMPLE	MSA-SW41A-030821			MSA-SW41B-030821			MSA-SW41C-030821			MSA-SW41D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-13			240-145599-14			240-145599-15			240-145599-16		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.07	U		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	UJ	C	0.42	UJ	C	0.42	UJ	C	0.42	UJ	C

PROJ_NO: 09343	NSAMPLE	MSA-SW42A-030821			MSA-SW42B-030821			MSA-SW42C-030821			MSA-SW42D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-17			240-145599-18			240-145599-19			240-145599-20		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	UJ	C
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	U	
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	UJ	C
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	UJ	C
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.14	J	P	0.19	J	P	0.16	J	P	0.13	J	P
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	UJ	C
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	UJ	C
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW43A-030821			MSA-SW43B-030821			MSA-SW43C-030821			MSA-SW43D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-21			240-145599-22			240-145599-23			240-145599-24		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	UJ	C	0.13	UJ	C	0.13	UJ	C	0.13	UJ	C
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	UJ	C	0.17	UJ	C	0.17	UJ	C	0.17	UJ	C
1,1-DICHLOROETHENE		0.19	UJ	C	0.19	UJ	C	0.19	UJ	C	0.19	UJ	C
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.1	J	P	0.07	U		0.11	J	P
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	UJ	C	0.15	UJ	C	0.15	UJ	C	0.15	UJ	C
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	UJ	C	0.14	UJ	C	0.14	UJ	C	0.14	UJ	C
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW44A-030821			MSA-SW44B-030821			MSA-SW44C-030821			MSA-SW44D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-25			240-145599-26			240-145599-27			240-145599-28		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	UJ	C	0.13	UJ	C	0.13	UJ	C	0.13	UJ	C
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U		0.41	U		0.41	U		0.41	U	
1,1-DICHLOROETHANE		0.17	UJ	C	0.17	UJ	C	0.17	UJ	C	0.17	UJ	C
1,1-DICHLOROETHENE		0.19	UJ	C	0.19	UJ	C	0.19	UJ	C	0.19	UJ	C
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U		0.07	U		0.12	J	P	0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	UJ	C	0.15	UJ	C	0.15	UJ	C	0.15	UJ	C
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	UJ	C	0.14	UJ	C	0.14	UJ	C	0.14	UJ	C
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW46A-030821			MSA-SW47A-030821			MSA-SW48A-030821			MSA-SW49A-030821		
SDG: 240-145599-1	LAB_ID	240-145599-30			240-145599-31			240-145599-32			240-145599-33		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	U		0.13	U		0.13	U		0.13	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C	0.41	UJ	C	0.41	UJ	C	0.41	UJ	C
1,1-DICHLOROETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U		0.54	U		0.54	U		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U		0.26	U		0.26	U		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.1	J	P	0.07	U		0.12	J	P	0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U		0.91	U		0.91	U		0.91	U	
1,2-DIBROMOETHANE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2-DICHLOROETHANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,2-DICHLOROPROPANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,3-DICHLOROPROPANE		0.21	U		0.21	U		0.21	U		0.21	U	
1,4-DICHLOROBENZENE		0.16	U		0.16	U		0.16	U		0.16	U	
2,2-DICHLOROPROPANE		0.31	U		0.31	U		0.31	U		0.31	U	
2-BUTANONE		1.2	U		1.2	U		1.2	U		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M	0.26	UR	M	0.26	UR	M	0.26	UR	M
2-CHLOROTOLUENE		0.15	U		0.15	U		0.15	U		0.15	U	
2-HEXANONE		0.54	U		0.54	U		0.54	U		0.54	U	
4-CHLOROTOLUENE		0.09	U		0.09	U		0.09	U		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
4-METHYL-2-PENTANONE		0.42	U		0.42	U		0.42	U		0.42	U	
ACETONE		5.4	U		5.4	U		5.4	U		5.4	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
BROMOCHLOROMETHANE		0.14	U		0.14	U		0.14	U		0.14	U	
BROMODICHLOROMETHANE		0.17	U		0.17	U		0.17	U		0.17	U	
BROMOFORM		0.76	U		0.76	U		0.76	U		0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09343	NSAMPLE	TB-030821		
SDG: 240-145599-1	LAB_ID	240-145599-29		
FRACTION: OV	SAMP_DATE	3/8/2021		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.14	U	
1,1,1-TRICHLOROETHANE		0.24	U	
1,1,2,2-TETRACHLOROETHANE		0.13	UJ	C
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	U	
1,1-DICHLOROETHANE		0.17	UJ	C
1,1-DICHLOROETHENE		0.19	UJ	C
1,1-DICHLOROPROPENE		0.14	U	
1,2,3-TRICHLOROBENZENE		0.54	U	
1,2,3-TRICHLOROPROPANE		0.24	U	
1,2,3-TRIMETHYLBENZENE		0.14	U	
1,2,4-TRICHLOROBENZENE		0.26	U	
1,2,4-TRIMETHYLBENZENE		0.07	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.91	U	
1,2-DIBROMOETHANE		0.12	U	
1,2-DICHLOROBENZENE		0.15	U	
1,2-DICHLOROETHANE		0.21	U	
1,2-DICHLOROPROPANE		0.15	UJ	C
1,3-DICHLOROBENZENE		0.15	U	
1,3-DICHLOROPROPANE		0.21	U	
1,4-DICHLOROBENZENE		0.16	U	
2,2-DICHLOROPROPANE		0.31	U	
2-BUTANONE		1.2	U	
2-CHLOROETHYL VINYL ETHER		0.26	UR	M
2-CHLOROTOLUENE		0.15	U	
2-HEXANONE		0.54	U	
4-CHLOROTOLUENE		0.09	U	
4-ISOPROPYLTOLUENE		0.13	U	
4-METHYL-2-PENTANONE		0.42	U	
ACETONE		5.4	U	
BENZENE		0.13	U	
BROMOBENZENE		0.12	U	
BROMOCHLOROMETHANE		0.14	UJ	C
BROMODICHLOROMETHANE		0.17	U	
BROMOFORM		0.76	U	
BROMOMETHANE		0.42	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW37A-030821			MSA-SW37B-030821			MSA-SW37C-030821			MSA-SW37D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-1			240-145599-2			240-145599-3			240-145599-4		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	U		0.19	J	P	0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.08	U		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	UJ	C	1.7	UJ	C	1.7	UJ	C	1.7	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	J	P	0.19	J	P	0.19	J	P	0.21	J	P
TOTAL XYLENES		0.15	U		0.15	U		0.15	U		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW38A-030821			MSA-SW38B-030821			MSA-SW38C-030821			MSA-SW38D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-5			240-145599-6			240-145599-7			240-145599-8		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.23	J	P	0.23	J	P	0.17	J	P	0.18	J	P
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.08	U		0.25	J	P	0.19	J	P
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.12	J	P	0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	UJ	C	1.7	UJ	C	1.7	UJ	C	1.7	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.16	J	P	0.21	J	P	0.33	J	P	0.21	J	P
TOTAL XYLENES		0.15	U		0.15	U		0.37	J	P	0.19	J	P
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW40A-030821			MSA-SW40B-030821			MSA-SW40C-030821			MSA-SW40D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-9			240-145599-10			240-145599-11			240-145599-12		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		2.1			0.26	J	P	0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.13	J	P	0.38	J	P	0.32	J	P	0.27	J	P
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.16	J	P	0.11	J	P	0.11	J	P
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	UJ	C	1.7	UJ	C	1.7	UJ	C	1.7	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.19	J	P	0.47	J	P	0.38	J	P	0.3	J	P
TOTAL XYLENES		0.15	U		0.54	J	P	0.43	J	P	0.38	J	P
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW41A-030821			MSA-SW41B-030821			MSA-SW41C-030821			MSA-SW41D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-13			240-145599-14			240-145599-15			240-145599-16		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	U		0.2	U		0.2	U		0.2	U	
CIS-1,2-DICHLOROETHENE		0.27	J	P	0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.15	J	P	0.22	J	P	0.18	J	P	0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.12	J	P	0.1	J	P	0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	UJ	C	1.7	UJ	C	1.7	UJ	C	1.7	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.18	J	P	0.3	J	P	0.26	J	P	0.25	J	P
TOTAL XYLENES		0.15	J	P	0.34	J	P	0.28	J	P	0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW42A-030821			MSA-SW42B-030821			MSA-SW42C-030821			MSA-SW42D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-17			240-145599-18			240-145599-19			240-145599-20		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	UJ	C
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	UJ	C	0.2	UJ	C	0.2	UJ	C	0.2	UJ	C
CIS-1,2-DICHLOROETHENE		1.4			0.55	J	P	0.55	J	P	0.31	J	P
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	UJ	C
DICHLORODIFLUOROMETHANE		0.35	UJ	C	0.35	UJ	C	0.35	UJ	C	0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.29	J	P	0.41	J	P	0.3	J	P	0.28	J	P
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.15	J	P	0.16	J	P	0.13	J	P	0.12	J	P
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.36	J	P	0.44	J	P	0.35	J	P	0.33	J	P
TOTAL XYLENES		0.44	J	P	0.57	J	P	0.43	J	P	0.4	J	P
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	UJ	C
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW43A-030821			MSA-SW43B-030821			MSA-SW43C-030821			MSA-SW43D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-21			240-145599-22			240-145599-23			240-145599-24		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	UJ	C	0.83	UJ	C	0.83	UJ	C	0.83	UJ	C
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	UJ	C	0.2	UJ	C	0.2	UJ	C	0.2	UJ	C
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	J	P	0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	UJ	C	0.09	UJ	C	0.09	UJ	C	0.09	UJ	C
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.08	U		0.24	J	P	0.16	J	P	0.17	J	P
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.09	U		0.09	U		0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.16	J	P	0.28	J	P	0.23	J	P	0.24	J	P
TOTAL XYLENES		0.15	U		0.24	J	P	0.16	J	P	0.17	J	P
TRANS-1,2-DICHLOROETHENE		0.19	UJ	C	0.19	UJ	C	0.19	UJ	C	0.19	UJ	C
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW44A-030821			MSA-SW44B-030821			MSA-SW44C-030821			MSA-SW44D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-25			240-145599-26			240-145599-27			240-145599-28		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	UJ	C	0.83	UJ	C	0.83	UJ	C	0.83	UJ	C
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	UJ	C	0.2	UJ	C	0.2	UJ	C	0.2	UJ	C
CIS-1,2-DICHLOROETHENE		0.16	U		0.16	U		0.16	U		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	UJ	C	0.09	UJ	C	0.09	UJ	C	0.09	UJ	C
DICHLORODIFLUOROMETHANE		0.35	U		0.35	U		0.35	U		0.35	U	
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.17	J	P	0.2	J	P	0.23	J	P	0.2	J	P
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.09	U		0.1	J	P	0.11	J	P	0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.21	J	P	0.26	J	P	0.3	J	P	0.25	J	P
TOTAL XYLENES		0.17	J	P	0.3	J	P	0.34	J	P	0.2	J	P
TRANS-1,2-DICHLOROETHENE		0.19	UJ	C	0.19	UJ	C	0.19	UJ	C	0.19	UJ	C
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.1	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW46A-030821			MSA-SW47A-030821			MSA-SW48A-030821			MSA-SW49A-030821		
SDG: 240-145599-1	LAB_ID	240-145599-30			240-145599-31			240-145599-32			240-145599-33		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U		0.28	U		0.28	U		0.28	U	
CARBON TETRACHLORIDE		0.26	U		0.26	U		0.26	U		0.26	U	
CHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
CHLORODIBROMOMETHANE		0.39	U		0.39	U		0.39	U		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q	1	UJ	Q	1	UJ	Q	1	UJ	Q
CHLOROETHANE		0.83	U		0.83	U		0.83	U		0.83	U	
CHLOROFORM		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROMETHANE		0.2	UJ	C	0.2	UJ	C	0.2	UJ	C	0.2	UJ	C
CIS-1,2-DICHLOROETHENE		2.1			0.33	J	P	0.16	U		2.2		
CIS-1,3-DICHLOROPROPENE		0.61	U		0.61	U		0.61	U		0.61	U	
DIBROMOMETHANE		0.09	U		0.09	U		0.09	U		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	UJ	C	0.35	UJ	C	0.35	UJ	C	0.35	UJ	C
DIISOPROPYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U		0.15	U		0.15	U		0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	U		0.83	U		0.83	U		0.83	U	
ISOPROPYLBENZENE		0.09	U		0.09	U		0.09	U		0.09	U	
M+P-XYLENES		0.23	J	P	0.08	U		0.3	J	P	0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U		0.07	U		0.07	U		0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	U		0.32	U		0.32	U		0.32	U	
N-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
N-PROPYLBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
O-XYLENE		0.12	J	P	0.09	U		0.12	J	P	0.09	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.1	U		0.1	U		0.1	U		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-BUTYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U		1.7	U		1.7	U		1.7	U	
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.3	J	P	0.17	J	P	0.34	J	P	0.25	J	P
TOTAL XYLENES		0.35	J	P	0.15	U		0.42	J	P	0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U		0.67	U		0.67	U		0.67	U	
TRICHLOROETHENE		0.1	U		0.1	U		0.1	U		0.71	J	P

PROJ_NO: 09343	NSAMPLE	TB-030821		
SDG: 240-145599-1	LAB_ID	240-145599-29		
FRACTION: OV	SAMP_DATE	3/8/2021		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
CARBON DISULFIDE		0.28	U	
CARBON TETRACHLORIDE		0.26	U	
CHLOROBENZENE		0.14	U	
CHLORODIBROMOMETHANE		0.39	U	
CHLORODIFLUOROMETHANE		1	UJ	Q
CHLOROETHANE		0.83	UJ	C
CHLOROFORM		0.13	U	
CHLOROMETHANE		0.2	UJ	C
CIS-1,2-DICHLOROETHENE		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U	
DIBROMOMETHANE		0.09	UJ	C
DICHLORODIFLUOROMETHANE		0.35	U	
DIISOPROPYL ETHER		0.17	U	
ETHYL TERT-BUTYL ETHER		0.15	U	
ETHYLBENZENE		0.11	U	
HEXACHLOROBUTADIENE		0.83	U	
ISOPROPYLBENZENE		0.09	U	
M+P-XYLENES		0.08	U	
METHYL TERT-BUTYL ETHER		0.07	U	
METHYLENE CHLORIDE		2.6	U	
NAPHTHALENE		0.32	U	
N-BUTYLBENZENE		0.14	U	
N-PROPYLBENZENE		0.15	U	
O-XYLENE		0.09	U	
SEC-BUTYLBENZENE		0.13	U	
STYRENE		0.1	U	
TERT-AMYL METHYL ETHER		0.11	U	
TERT-BUTYLBENZENE		0.14	U	
TERTIARY-BUTYL ALCOHOL		1.7	U	
TETRACHLOROETHENE		0.15	U	
TOLUENE		0.14	U	
TOTAL XYLENES		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	UJ	C
TRANS-1,3-DICHLOROPROPENE		0.67	U	
TRICHLOROETHENE		0.1	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW37A-030821			MSA-SW37B-030821			MSA-SW37C-030821			MSA-SW37D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-1			240-145599-2			240-145599-3			240-145599-4		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	U		0.2	U		0.28	J	P	0.21	J	P

PROJ_NO: 09343	NSAMPLE	MSA-SW38A-030821			MSA-SW38B-030821			MSA-SW38C-030821			MSA-SW38D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-5			240-145599-6			240-145599-7			240-145599-8		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.54	J	P	0.59	J	P	0.45	J	P	0.45	J	P

PROJ_NO: 09343	NSAMPLE	MSA-SW40A-030821			MSA-SW40B-030821			MSA-SW40C-030821			MSA-SW40D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-9			240-145599-10			240-145599-11			240-145599-12		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		4.5			0.62	J	P	0.21	J	P	0.2	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW41A-030821			MSA-SW41B-030821			MSA-SW41C-030821			MSA-SW41D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-13			240-145599-14			240-145599-15			240-145599-16		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.36	J	P	0.24	J	P	0.2	U		0.2	U	

PROJ_NO: 09343	NSAMPLE	MSA-SW42A-030821			MSA-SW42B-030821			MSA-SW42C-030821			MSA-SW42D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-17			240-145599-18			240-145599-19			240-145599-20		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		2.1			0.88	J	P	0.86	J	P	0.78	J	CP

PROJ_NO: 09343	NSAMPLE	MSA-SW43A-030821			MSA-SW43B-030821			MSA-SW43C-030821			MSA-SW43D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-21			240-145599-22			240-145599-23			240-145599-24		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	UJ	C	0.2	UJ	C	0.2	UJ	C	0.2	UJ	C

PROJ_NO: 09343	NSAMPLE	MSA-SW44A-030821			MSA-SW44B-030821			MSA-SW44C-030821			MSA-SW44D-030821		
SDG: 240-145599-1	LAB_ID	240-145599-25			240-145599-26			240-145599-27			240-145599-28		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.2	UJ	C	0.2	UJ	C	0.2	UJ	C	0.2	UJ	C

PROJ_NO: 09343	NSAMPLE	MSA-SW46A-030821			MSA-SW47A-030821			MSA-SW48A-030821			MSA-SW49A-030821		
SDG: 240-145599-1	LAB_ID	240-145599-30			240-145599-31			240-145599-32			240-145599-33		
FRACTION: OV	SAMP_DATE	3/8/2021			3/8/2021			3/8/2021			3/8/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U		0.45	U		0.45	U		0.45	U	
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		2.9			0.83	J	CP	0.21	J	CP	0.83	J	CP

PROJ_NO: 09343	NSAMPLE	TB-030821		
SDG: 240-145599-1	LAB_ID	240-145599-29		
FRACTION: OV	SAMP_DATE	3/8/2021		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
TRICHLOROFLUOROMETHANE		0.45	U	
VINYL ACETATE		0.19	U	
VINYL CHLORIDE		0.2	UJ	C

Appendix B

Results as Reported by the Laboratory

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37A-030821 Lab Sample ID: 240-145599-1

Matrix: Water Lab File ID: UXM35616.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37A-030821 Lab Sample ID: 240-145599-1

Matrix: Water Lab File ID: UXM35616.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.14	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37A-030821 Lab Sample ID: 240-145599-1

Matrix: Water Lab File ID: UXM35616.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	102		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37A-030821 Lab Sample ID: 240-145599-1

Matrix: Water Lab File ID: UXM35616.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37A-030821 Lab Sample ID: 240-145599-1

Matrix: Water Lab File ID: UXM35616.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37B-030821 Lab Sample ID: 240-145599-2

Matrix: Water Lab File ID: UXM35617.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37B-030821 Lab Sample ID: 240-145599-2

Matrix: Water Lab File ID: UXM35617.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.19	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37B-030821 Lab Sample ID: 240-145599-2

Matrix: Water Lab File ID: UXM35617.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	107		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37B-030821 Lab Sample ID: 240-145599-2

Matrix: Water Lab File ID: UXM35617.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37B-030821 Lab Sample ID: 240-145599-2

Matrix: Water Lab File ID: UXM35617.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37C-030821 Lab Sample ID: 240-145599-3

Matrix: Water Lab File ID: UXM35618.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.19	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37C-030821 Lab Sample ID: 240-145599-3

Matrix: Water Lab File ID: UXM35618.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.19	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.28	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37C-030821 Lab Sample ID: 240-145599-3

Matrix: Water Lab File ID: UXM35618.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		47-134
1868-53-7	Dibromofluoromethane (Surr)	107		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37C-030821 Lab Sample ID: 240-145599-3

Matrix: Water Lab File ID: UXM35618.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37C-030821 Lab Sample ID: 240-145599-3

Matrix: Water Lab File ID: UXM35618.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37D-030821 Lab Sample ID: 240-145599-4

Matrix: Water Lab File ID: UXM35619.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37D-030821 Lab Sample ID: 240-145599-4

Matrix: Water Lab File ID: UXM35619.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.21	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.21	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37D-030821 Lab Sample ID: 240-145599-4

Matrix: Water Lab File ID: UXM35619.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37D-030821 Lab Sample ID: 240-145599-4

Matrix: Water Lab File ID: UXM35619.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37D-030821 Lab Sample ID: 240-145599-4

Matrix: Water Lab File ID: UXM35619.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38A-030821 Lab Sample ID: 240-145599-5

Matrix: Water Lab File ID: UXM35620.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:51

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.23	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38A-030821 Lab Sample ID: 240-145599-5

Matrix: Water Lab File ID: UXM35620.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:51

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.16	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.54	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38A-030821 Lab Sample ID: 240-145599-5

Matrix: Water Lab File ID: UXM35620.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:51

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		47-134
1868-53-7	Dibromofluoromethane (Surr)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38A-030821 Lab Sample ID: 240-145599-5

Matrix: Water Lab File ID: UXM35620.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:51

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38A-030821 Lab Sample ID: 240-145599-5

Matrix: Water Lab File ID: UXM35620.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:51

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38B-030821 Lab Sample ID: 240-145599-6

Matrix: Water Lab File ID: UXM35621.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:56

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.23	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38B-030821 Lab Sample ID: 240-145599-6

Matrix: Water Lab File ID: UXM35621.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:56

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.21	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.11	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.59	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38B-030821 Lab Sample ID: 240-145599-6

Matrix: Water Lab File ID: UXM35621.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:56

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	103		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38B-030821 Lab Sample ID: 240-145599-6

Matrix: Water Lab File ID: UXM35621.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:56

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38B-030821 Lab Sample ID: 240-145599-6

Matrix: Water Lab File ID: UXM35621.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:56

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38C-030821 Lab Sample ID: 240-145599-7

Matrix: Water Lab File ID: UXM35622.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:59

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.17	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38C-030821 Lab Sample ID: 240-145599-7

Matrix: Water Lab File ID: UXM35622.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:59

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.25	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.12	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.33	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.45	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38C-030821 Lab Sample ID: 240-145599-7

Matrix: Water Lab File ID: UXM35622.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:59

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.37	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	106		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	87		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38C-030821 Lab Sample ID: 240-145599-7

Matrix: Water Lab File ID: UXM35622.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:59

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38C-030821 Lab Sample ID: 240-145599-7

Matrix: Water Lab File ID: UXM35622.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:59

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38D-030821 Lab Sample ID: 240-145599-8

Matrix: Water Lab File ID: UXM35623.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:02

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.18	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38D-030821 Lab Sample ID: 240-145599-8

Matrix: Water Lab File ID: UXM35623.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:02

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.19	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.21	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.45	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38D-030821 Lab Sample ID: 240-145599-8

Matrix: Water Lab File ID: UXM35623.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:02

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.19	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		47-134
1868-53-7	Dibromofluoromethane (Surr)	102		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38D-030821 Lab Sample ID: 240-145599-8

Matrix: Water Lab File ID: UXM35623.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:02

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38D-030821 Lab Sample ID: 240-145599-8

Matrix: Water Lab File ID: UXM35623.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:02

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40A-030821 Lab Sample ID: 240-145599-9

Matrix: Water Lab File ID: UXM35624.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:13

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	2.1		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40A-030821 Lab Sample ID: 240-145599-9

Matrix: Water Lab File ID: UXM35624.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:13

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.13	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.19	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	4.5		1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40A-030821 Lab Sample ID: 240-145599-9

Matrix: Water Lab File ID: UXM35624.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:13

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	104		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40A-030821 Lab Sample ID: 240-145599-9

Matrix: Water Lab File ID: UXM35624.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:13

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40A-030821 Lab Sample ID: 240-145599-9

Matrix: Water Lab File ID: UXM35624.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:13

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40B-030821 Lab Sample ID: 240-145599-10

Matrix: Water Lab File ID: UXM35625.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:17

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.26	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40B-030821 Lab Sample ID: 240-145599-10

Matrix: Water Lab File ID: UXM35625.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:17

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.38	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.16	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.47	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.16	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.62	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40B-030821 Lab Sample ID: 240-145599-10

Matrix: Water Lab File ID: UXM35625.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:17

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.54	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
2037-26-5	Toluene-d8 (Surr)	87		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40B-030821 Lab Sample ID: 240-145599-10

Matrix: Water Lab File ID: UXM35625.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:17

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40B-030821 Lab Sample ID: 240-145599-10

Matrix: Water Lab File ID: UXM35625.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:17

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40C-030821 Lab Sample ID: 240-145599-11

Matrix: Water Lab File ID: UXM35626.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:19

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40C-030821 Lab Sample ID: 240-145599-11

Matrix: Water Lab File ID: UXM35626.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:19

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.32	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.11	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.38	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.16	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.21	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40C-030821 Lab Sample ID: 240-145599-11

Matrix: Water Lab File ID: UXM35626.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:19

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.43	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	107		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40C-030821 Lab Sample ID: 240-145599-11

Matrix: Water Lab File ID: UXM35626.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:19

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40C-030821 Lab Sample ID: 240-145599-11

Matrix: Water Lab File ID: UXM35626.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:19

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40D-030821 Lab Sample ID: 240-145599-12

Matrix: Water Lab File ID: UXM35627.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40D-030821 Lab Sample ID: 240-145599-12

Matrix: Water Lab File ID: UXM35627.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.27	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.11	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.30	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.11	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40D-030821 Lab Sample ID: 240-145599-12

Matrix: Water Lab File ID: UXM35627.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.38	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	108		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40D-030821 Lab Sample ID: 240-145599-12

Matrix: Water Lab File ID: UXM35627.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40D-030821 Lab Sample ID: 240-145599-12

Matrix: Water Lab File ID: UXM35627.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41A-030821 Lab Sample ID: 240-145599-13

Matrix: Water Lab File ID: UXM35628.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.27	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41A-030821 Lab Sample ID: 240-145599-13

Matrix: Water Lab File ID: UXM35628.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.15	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.18	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.36	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41A-030821 Lab Sample ID: 240-145599-13

Matrix: Water Lab File ID: UXM35628.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.15	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	87		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41A-030821 Lab Sample ID: 240-145599-13

Matrix: Water Lab File ID: UXM35628.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41A-030821 Lab Sample ID: 240-145599-13

Matrix: Water Lab File ID: UXM35628.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41B-030821 Lab Sample ID: 240-145599-14

Matrix: Water Lab File ID: UXM35629.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41B-030821 Lab Sample ID: 240-145599-14

Matrix: Water Lab File ID: UXM35629.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.22	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.12	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.30	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.24	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41B-030821 Lab Sample ID: 240-145599-14

Matrix: Water Lab File ID: UXM35629.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.34	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	101		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-130
2037-26-5	Toluene-d8 (Surr)	87		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41B-030821 Lab Sample ID: 240-145599-14

Matrix: Water Lab File ID: UXM35629.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41B-030821 Lab Sample ID: 240-145599-14

Matrix: Water Lab File ID: UXM35629.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41C-030821 Lab Sample ID: 240-145599-15

Matrix: Water Lab File ID: UXM35630.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:39

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41C-030821 Lab Sample ID: 240-145599-15

Matrix: Water Lab File ID: UXM35630.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:39

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.18	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.10	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.26	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41C-030821 Lab Sample ID: 240-145599-15

Matrix: Water Lab File ID: UXM35630.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:39

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.28	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41C-030821 Lab Sample ID: 240-145599-15

Matrix: Water Lab File ID: UXM35630.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:39

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41C-030821 Lab Sample ID: 240-145599-15

Matrix: Water Lab File ID: UXM35630.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:39

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41D-030821 Lab Sample ID: 240-145599-16

Matrix: Water Lab File ID: UXM35631.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:41

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41D-030821 Lab Sample ID: 240-145599-16

Matrix: Water Lab File ID: UXM35631.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:41

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.25	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41D-030821 Lab Sample ID: 240-145599-16

Matrix: Water Lab File ID: UXM35631.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:41

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		47-134
1868-53-7	Dibromofluoromethane (Surr)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41D-030821 Lab Sample ID: 240-145599-16

Matrix: Water Lab File ID: UXM35631.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:41

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41D-030821 Lab Sample ID: 240-145599-16

Matrix: Water Lab File ID: UXM35631.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:41

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UXM35689.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.4		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UXM35689.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.29	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.15	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.36	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.14	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
1330-20-7	Xylenes, Total	0.44	J	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UXM35689.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-130
2037-26-5	Toluene-d8 (Surr)	94		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UXM35689.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UXM35689.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UX994003.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 12:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.1		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	118		47-134
1868-53-7	Dibromofluoromethane (Surr)	92		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	99		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UX994003.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 12:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UXM35690.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.55	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UXM35690.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.41	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.16	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.44	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.19	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
1330-20-7	Xylenes, Total	0.57	J	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UXM35690.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	99		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		75-130
2037-26-5	Toluene-d8 (Surr)	94		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UXM35690.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UXM35690.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UX994004.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 12:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.88	J	1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	120		47-134
1868-53-7	Dibromofluoromethane (Surr)	93		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UX994004.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 12:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UXM35691.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.55	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UXM35691.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.30	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.13	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.35	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.16	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
1330-20-7	Xylenes, Total	0.43	J	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UXM35691.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	91		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UXM35691.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UXM35691.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UX994005.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 12:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.86	J	1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	120		47-134
1868-53-7	Dibromofluoromethane (Surr)	93		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UX994005.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 12:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42D-030821 Lab Sample ID: 240-145599-20

Matrix: Water Lab File ID: U1920973.d

Analysis Method: 8260C Date Collected: 03/08/2021 10:49

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.31	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42D-030821 Lab Sample ID: 240-145599-20

Matrix: Water Lab File ID: U1920973.d

Analysis Method: 8260C Date Collected: 03/08/2021 10:49

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.28	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.12	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.33	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.13	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.78	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42D-030821 Lab Sample ID: 240-145599-20

Matrix: Water Lab File ID: U1920973.d

Analysis Method: 8260C Date Collected: 03/08/2021 10:49

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.40	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		47-134
1868-53-7	Dibromofluoromethane (Surr)	110		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	124		75-130
2037-26-5	Toluene-d8 (Surr)	105		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42D-030821 Lab Sample ID: 240-145599-20

Matrix: Water Lab File ID: U1920973.d

Analysis Method: 8260C Date Collected: 03/08/2021 10:49

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42D-030821 Lab Sample ID: 240-145599-20

Matrix: Water Lab File ID: U1920973.d

Analysis Method: 8260C Date Collected: 03/08/2021 10:49

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43A-030821 Lab Sample ID: 240-145599-21

Matrix: Water Lab File ID: U1920974.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43A-030821 Lab Sample ID: 240-145599-21

Matrix: Water Lab File ID: U1920974.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.16	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43A-030821 Lab Sample ID: 240-145599-21

Matrix: Water Lab File ID: U1920974.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	112		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		75-130
2037-26-5	Toluene-d8 (Surr)	105		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43A-030821 Lab Sample ID: 240-145599-21

Matrix: Water Lab File ID: U1920974.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43A-030821 Lab Sample ID: 240-145599-21

Matrix: Water Lab File ID: U1920974.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43B-030821 Lab Sample ID: 240-145599-22

Matrix: Water Lab File ID: U1920975.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.16	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43B-030821 Lab Sample ID: 240-145599-22

Matrix: Water Lab File ID: U1920975.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.24	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.28	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.10	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43B-030821 Lab Sample ID: 240-145599-22

Matrix: Water Lab File ID: U1920975.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.24	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	114		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		75-130
2037-26-5	Toluene-d8 (Surr)	106		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43B-030821 Lab Sample ID: 240-145599-22

Matrix: Water Lab File ID: U1920975.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43B-030821 Lab Sample ID: 240-145599-22

Matrix: Water Lab File ID: U1920975.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43C-030821 Lab Sample ID: 240-145599-23

Matrix: Water Lab File ID: U1920976.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:19

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43C-030821 Lab Sample ID: 240-145599-23

Matrix: Water Lab File ID: U1920976.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:19

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.16	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.23	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43C-030821 Lab Sample ID: 240-145599-23

Matrix: Water Lab File ID: U1920976.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:19

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.16	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	112		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	125		75-130
2037-26-5	Toluene-d8 (Surr)	105		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43C-030821 Lab Sample ID: 240-145599-23

Matrix: Water Lab File ID: U1920976.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:19

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43C-030821 Lab Sample ID: 240-145599-23

Matrix: Water Lab File ID: U1920976.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:19

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43D-030821 Lab Sample ID: 240-145599-24

Matrix: Water Lab File ID: U1920977.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:23

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43D-030821 Lab Sample ID: 240-145599-24

Matrix: Water Lab File ID: U1920977.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:23

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.17	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.24	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.11	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43D-030821 Lab Sample ID: 240-145599-24

Matrix: Water Lab File ID: U1920977.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:23

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.17	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	113		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	126		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43D-030821 Lab Sample ID: 240-145599-24

Matrix: Water Lab File ID: U1920977.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:23

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43D-030821 Lab Sample ID: 240-145599-24

Matrix: Water Lab File ID: U1920977.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:23

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44A-030821 Lab Sample ID: 240-145599-25

Matrix: Water Lab File ID: U1920978.d

Analysis Method: 8260C Date Collected: 03/08/2021 08:58

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44A-030821 Lab Sample ID: 240-145599-25

Matrix: Water Lab File ID: U1920978.d

Analysis Method: 8260C Date Collected: 03/08/2021 08:58

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.17	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.21	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44A-030821 Lab Sample ID: 240-145599-25

Matrix: Water Lab File ID: U1920978.d

Analysis Method: 8260C Date Collected: 03/08/2021 08:58

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.17	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	113		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44A-030821 Lab Sample ID: 240-145599-25

Matrix: Water Lab File ID: U1920978.d

Analysis Method: 8260C Date Collected: 03/08/2021 08:58

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44A-030821 Lab Sample ID: 240-145599-25

Matrix: Water Lab File ID: U1920978.d

Analysis Method: 8260C Date Collected: 03/08/2021 08:58

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44B-030821 Lab Sample ID: 240-145599-26

Matrix: Water Lab File ID: U1920979.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44B-030821 Lab Sample ID: 240-145599-26

Matrix: Water Lab File ID: U1920979.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.20	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.10	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.26	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44B-030821 Lab Sample ID: 240-145599-26

Matrix: Water Lab File ID: U1920979.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.30	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	117		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	127		75-130
2037-26-5	Toluene-d8 (Surr)	107		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44B-030821 Lab Sample ID: 240-145599-26

Matrix: Water Lab File ID: U1920979.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44B-030821 Lab Sample ID: 240-145599-26

Matrix: Water Lab File ID: U1920979.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44C-030821 Lab Sample ID: 240-145599-27

Matrix: Water Lab File ID: U1920980.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44C-030821 Lab Sample ID: 240-145599-27

Matrix: Water Lab File ID: U1920980.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.23	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.11	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.30	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.12	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44C-030821 Lab Sample ID: 240-145599-27

Matrix: Water Lab File ID: U1920980.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.34	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	117		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	128		75-130
2037-26-5	Toluene-d8 (Surr)	106		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44C-030821 Lab Sample ID: 240-145599-27

Matrix: Water Lab File ID: U1920980.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44C-030821 Lab Sample ID: 240-145599-27

Matrix: Water Lab File ID: U1920980.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44D-030821 Lab Sample ID: 240-145599-28

Matrix: Water Lab File ID: U1920981.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44D-030821 Lab Sample ID: 240-145599-28

Matrix: Water Lab File ID: U1920981.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.20	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.25	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44D-030821 Lab Sample ID: 240-145599-28

Matrix: Water Lab File ID: U1920981.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.20	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	113		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		75-130
2037-26-5	Toluene-d8 (Surr)	104		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44D-030821 Lab Sample ID: 240-145599-28

Matrix: Water Lab File ID: U1920981.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44D-030821 Lab Sample ID: 240-145599-28

Matrix: Water Lab File ID: U1920981.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: TB-030821 Lab Sample ID: 240-145599-29

Matrix: Water Lab File ID: U1920982.d

Analysis Method: 8260C Date Collected: 03/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: TB-030821 Lab Sample ID: 240-145599-29

Matrix: Water Lab File ID: U1920982.d

Analysis Method: 8260C Date Collected: 03/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: TB-030821 Lab Sample ID: 240-145599-29

Matrix: Water Lab File ID: U1920982.d

Analysis Method: 8260C Date Collected: 03/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	115		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	128		75-130
2037-26-5	Toluene-d8 (Surr)	107		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: TB-030821 Lab Sample ID: 240-145599-29

Matrix: Water Lab File ID: U1920982.d

Analysis Method: 8260C Date Collected: 03/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: TB-030821 Lab Sample ID: 240-145599-29

Matrix: Water Lab File ID: U1920982.d

Analysis Method: 8260C Date Collected: 03/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UXM35692.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	2.1		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UXM35692.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.23	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.12	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.30	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.10	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
1330-20-7	Xylenes, Total	0.35	J	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UXM35692.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		47-134
1868-53-7	Dibromofluoromethane (Surr)	103		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	93		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UXM35692.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UXM35692.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UX994006.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 13:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.9		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	118		47-134
1868-53-7	Dibromofluoromethane (Surr)	93		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
2037-26-5	Toluene-d8 (Surr)	99		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UX994006.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 13:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW47A-030821 Lab Sample ID: 240-145599-31

Matrix: Water Lab File ID: UXM35693.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.33	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW47A-030821 Lab Sample ID: 240-145599-31

Matrix: Water Lab File ID: UXM35693.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.17	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.83	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW47A-030821 Lab Sample ID: 240-145599-31

Matrix: Water Lab File ID: UXM35693.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	106		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
2037-26-5	Toluene-d8 (Surr)	91		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW47A-030821 Lab Sample ID: 240-145599-31

Matrix: Water Lab File ID: UXM35693.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW47A-030821 Lab Sample ID: 240-145599-31

Matrix: Water Lab File ID: UXM35693.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW48A-030821 Lab Sample ID: 240-145599-32

Matrix: Water Lab File ID: UXM35694.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW48A-030821 Lab Sample ID: 240-145599-32

Matrix: Water Lab File ID: UXM35694.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.30	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.12	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.34	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.12	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.21	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW48A-030821 Lab Sample ID: 240-145599-32

Matrix: Water Lab File ID: UXM35694.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.42	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
1868-53-7	Dibromofluoromethane (Surr)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
2037-26-5	Toluene-d8 (Surr)	91		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW48A-030821 Lab Sample ID: 240-145599-32

Matrix: Water Lab File ID: UXM35694.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW48A-030821 Lab Sample ID: 240-145599-32

Matrix: Water Lab File ID: UXM35694.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW49A-030821 Lab Sample ID: 240-145599-33

Matrix: Water Lab File ID: UXM35695.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:28

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	2.2		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW49A-030821 Lab Sample ID: 240-145599-33

Matrix: Water Lab File ID: UXM35695.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:28

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.25	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	0.71	J	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.83	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW49A-030821 Lab Sample ID: 240-145599-33

Matrix: Water Lab File ID: UXM35695.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:28

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	106		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-130
2037-26-5	Toluene-d8 (Surr)	92		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW49A-030821 Lab Sample ID: 240-145599-33

Matrix: Water Lab File ID: UXM35695.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:28

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW49A-030821 Lab Sample ID: 240-145599-33

Matrix: Water Lab File ID: UXM35695.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:28

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Appendix C

Support Documentation

Baltimore
#201

0.8

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

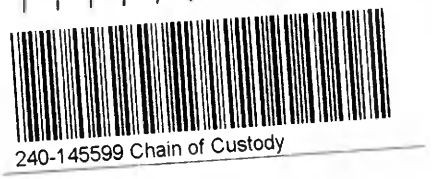
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 3/8/2021	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne C.	Carrier: Fedex	1 of 3 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
Project # 112IC09343	☐ 1 day			Sampler: J Mullis

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW37A-030821	3/8/2021	1054	SW	Water	3		x	
MSA-SW37B-030821	3/8/2021	1100	SW	Water	3		x	
MSA-SW37C-030821	3/8/2021	1123	SW	Water	3		x	
MSA-SW37D-030821	3/8/2021	1126	SW	Water	3		x	
MSA-SW38A-030821	3/8/2021	0951	SW	Water	3		x	
MSA-SW38B-030821	3/8/2021	0956	SW	Water	3		x	
MSA-SW38C-030821	3/8/2021	0959	SW	Water	3		x	
MSA-SW38D-030821	3/8/2021	1002	SW	Water	3		x	
MSA-SW40A-030821	3/8/2021	1013	SW	Water	3		x	
MSA-SW40B-030821	3/8/2021	1017	SW	Water	3		x	
MSA-SW40C-030821	3/8/2021	1019	SW	Water	3		x	
MSA-SW40D-030821	3/8/2021	1023	SW	Water	3		x	
							2	

240-145599 Chain of Custody



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Tetra Tech Inc	3/8/21 1500	[signature]	TABalt	3/8/21 1500
[signature]	TABalt	3/8/21 1700	[signature]	ETA	3-9-21 1015

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

03/22/2021

Baltimore
#201

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 8/12/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne C.	Carrier: Fedex	2 of 3 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler: J Mullis
Site: MSA Frog Mortar Creek	☐ 2 days			
Project # 112IC09343	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW41A-030821	3/8/2021	0434	SW	Water	3		x	
MSA-SW41B-030821	3/8/2021	0436	SW	Water	3		x	
MSA-SW41C-030821	3/8/2021	0439	SW	Water	3		x	
MSA-SW41D-030821	3/8/2021	0441	SW	Water	3		x	
MSA-SW42A-030821	3/8/2021	1039	SW	Water	3		x	
MSA-SW42B-030821	3/8/2021	1042	SW	Water	3		x	
MSA-SW42C-030821	3/8/2021	1045	SW	Water	3		x	
MSA-SW42D-030821	3/8/2021	1049	SW	Water	3		x	
MSA-SW43A-030821	3/8/2021	0914	SW	Water	3		x	
MSA-SW43B-030821	3/8/2021	0916	SW	Water	3		x	
MSA-SW43C-030821	3/8/2021	0919	SW	Water	3		x	
MSA-SW43D-030821	3/8/2021	0923	SW	Water	3		x	
							2	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☑ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech	3/8/21 1500		BTA Baltimore	3/8/21 1500
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BTA Baltimore	3/8/21 1200		EDA	3-9-21 1015
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Baltimore #201

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 8/12/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne C.	Carrier: Fedex	3 of 3 COCs
20251 Century Blvd, Suite 200	**Analysis Turnaround Time**			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler: J Mullis
Site: MSA Frog Mortar Creek	☐ 2 days			
Project # 112IC09343	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW44A-030821	3/8/2021	0858	SW	Water	3		x	
MSA-SW44B-030821	3/8/2021	0903	SW	Water	3		x	
MSA-SW44C-030821	3/8/2021	0906	SW	Water	3		x	
MSA-SW44D-030821	3/8/2021	0909	SW	Water	3		x	
TB-030821	3/8/2021	0000	SW	Water	3		x	
MSA-SW46A-030821	3/8/2021	1031	SW	Water	3		x	
MSA-SW47A-030821	3/8/2021	1006	SW	Water	3		x	
MSA-SW48A-030821	3/8/2021	0945	SW	Water	3		x	
MSA-SW49A-030821	3/8/2021	~~0948~~ 0928 JAM	SW	Water	3		x	Time = 0928

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____ 2

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech Inc	3/8/21 1500		Fed Ex	3/8/21 1500
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Fed Ex	3/8/21 1700		ENS	3-9-21
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-145599-1	MSA-SW37A-030821	Water	03/08/21 10:54	03/09/21 10:15	
240-145599-2	MSA-SW37B-030821	Water	03/08/21 11:00	03/09/21 10:15	
240-145599-3	MSA-SW37C-030821	Water	03/08/21 11:23	03/09/21 10:15	
240-145599-4	MSA-SW37D-030821	Water	03/08/21 11:26	03/09/21 10:15	
240-145599-5	MSA-SW38A-030821	Water	03/08/21 09:51	03/09/21 10:15	
240-145599-6	MSA-SW38B-030821	Water	03/08/21 09:56	03/09/21 10:15	
240-145599-7	MSA-SW38C-030821	Water	03/08/21 09:59	03/09/21 10:15	
240-145599-8	MSA-SW38D-030821	Water	03/08/21 10:02	03/09/21 10:15	
240-145599-9	MSA-SW40A-030821	Water	03/08/21 10:13	03/09/21 10:15	
240-145599-10	MSA-SW40B-030821	Water	03/08/21 10:17	03/09/21 10:15	
240-145599-11	MSA-SW40C-030821	Water	03/08/21 10:19	03/09/21 10:15	
240-145599-12	MSA-SW40D-030821	Water	03/08/21 10:23	03/09/21 10:15	
240-145599-13	MSA-SW41A-030821	Water	03/08/21 09:34	03/09/21 10:15	
240-145599-14	MSA-SW41B-030821	Water	03/08/21 09:36	03/09/21 10:15	
240-145599-15	MSA-SW41C-030821	Water	03/08/21 09:39	03/09/21 10:15	
240-145599-16	MSA-SW41D-030821	Water	03/08/21 09:41	03/09/21 10:15	
240-145599-17	MSA-SW42A-030821	Water	03/08/21 10:39	03/09/21 10:15	
240-145599-18	MSA-SW42B-030821	Water	03/08/21 10:42	03/09/21 10:15	
240-145599-19	MSA-SW42C-030821	Water	03/08/21 10:45	03/09/21 10:15	
240-145599-20	MSA-SW42D-030821	Water	03/08/21 10:49	03/09/21 10:15	
240-145599-21	MSA-SW43A-030821	Water	03/08/21 09:14	03/09/21 10:15	
240-145599-22	MSA-SW43B-030821	Water	03/08/21 09:16	03/09/21 10:15	
240-145599-23	MSA-SW43C-030821	Water	03/08/21 09:19	03/09/21 10:15	
240-145599-24	MSA-SW43D-030821	Water	03/08/21 09:23	03/09/21 10:15	
240-145599-25	MSA-SW44A-030821	Water	03/08/21 08:58	03/09/21 10:15	
240-145599-26	MSA-SW44B-030821	Water	03/08/21 09:03	03/09/21 10:15	
240-145599-27	MSA-SW44C-030821	Water	03/08/21 09:06	03/09/21 10:15	
240-145599-28	MSA-SW44D-030821	Water	03/08/21 09:09	03/09/21 10:15	
240-145599-29	TB-030821	Water	03/08/21 00:00	03/09/21 10:15	
240-145599-30	MSA-SW46A-030821	Water	03/08/21 10:31	03/09/21 10:15	
240-145599-31	MSA-SW47A-030821	Water	03/08/21 10:06	03/09/21 10:15	
240-145599-32	MSA-SW48A-030821	Water	03/08/21 09:45	03/09/21 10:15	
240-145599-33	MSA-SW49A-030821	Water	03/08/21 09:28	03/09/21 10:15	

Job Narrative
240-145599-1

Comments
No additional comments.

Receipt
The samples were received on 3/9/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-476369 was outside the method criteria for the following analyte(s): 2-Methyl-2-propanol, 1,1,2-Trichloro-1,2,2-trifluoroethane and Bromomethane. 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 analyte(s) is considered estimated. MSA-SW37A-030821 (240-145599-1), MSA-SW37B-030821 (240-145599-2), MSA-SW37C-030821 (240-145599-3), MSA-SW37D-030821 (240-145599-4), MSA-SW38A-030821 (240-145599-5), MSA-SW38B-030821 (240-145599-6), MSA-SW38C-030821 (240-145599-7), MSA-SW38D-030821 (240-145599-8), MSA-SW40A-030821 (240-145599-9), MSA-SW40B-030821 (240-145599-10), MSA-SW40C-030821 (240-145599-11), MSA-SW40D-030821 (240-145599-12), MSA-SW41A-030821 (240-145599-13), MSA-SW41B-030821 (240-145599-14), MSA-SW41C-030821 (240-145599-15), MSA-SW41D-030821 (240-145599-16) and (CCVIS 240-476369/3)

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-476858 was outside the method criteria for some analytes. 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 analyte(s) is considered estimated.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-476975 was outside the method criteria for the following analytes: Multiple Analytes. 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. MSA-SW42A-030821 (240-145599-17), MSA-SW42B-030821 (240-145599-18), MSA-SW42C-030821 (240-145599-19), MSA-SW46A-030821 (240-145599-30), MSA-SW47A-030821 (240-145599-31), MSA-SW48A-030821 (240-145599-32), MSA-SW49A-030821 (240-145599-33) and (CCVIS 240-476975/3)

Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MSA-SW37A-030821 (240-145599-1), MSA-SW37B-030821 (240-145599-2), MSA-SW37C-030821 (240-145599-3), MSA-SW37D-030821 (240-145599-4), MSA-SW38A-030821 (240-145599-5), MSA-SW38B-030821 (240-145599-6), MSA-SW38C-030821 (240-145599-7), MSA-SW38D-030821 (240-145599-8), MSA-SW40A-030821 (240-145599-9), MSA-SW40B-030821 (240-145599-10), MSA-SW40C-030821 (240-145599-11), MSA-SW40D-030821 (240-145599-12), MSA-SW41A-030821 (240-145599-13), MSA-SW41B-030821 (240-145599-14), MSA-SW41C-030821 (240-145599-15), MSA-SW41D-030821 (240-145599-16), MSA-SW42A-030821 (240-145599-17), MSA-SW42B-030821 (240-145599-18), MSA-SW42C-030821 (240-145599-19), MSA-SW42D-030821 (240-145599-20), MSA-SW43A-030821 (240-145599-21), MSA-SW43B-030821 (240-145599-22), MSA-SW43C-030821 (240-145599-23), MSA-SW43D-030821 (240-145599-24), MSA-SW44A-030821 (240-145599-25), MSA-SW44B-030821 (240-145599-26), MSA-SW44C-030821 (240-145599-27), MSA-SW44D-030821 (240-145599-28), TB-030821 (240-145599-29), MSA-SW46A-030821 (240-145599-30), MSA-SW47A-030821 (240-145599-31), MSA-SW48A-030821 (240-145599-32) and MSA-SW49A-030821 (240-145599-33). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Methods 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-476858.

Methods 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-476975.

Method 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-476369.

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

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
5030C	Purge and Trap	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MSA-SW37A-030821	240-145599-1	102	98	88	101
MSA-SW37B-030821	240-145599-2	107	99	88	102
MSA-SW37C-030821	240-145599-3	107	99	88	100
MSA-SW37D-030821	240-145599-4	105	101	88	104
MSA-SW38A-030821	240-145599-5	105	99	88	103
MSA-SW38B-030821	240-145599-6	103	97	89	101
MSA-SW38C-030821	240-145599-7	106	99	87	101
MSA-SW38D-030821	240-145599-8	102	101	89	103
MSA-SW40A-030821	240-145599-9	104	100	88	102
MSA-SW40B-030821	240-145599-10	105	100	87	102
MSA-SW40C-030821	240-145599-11	107	101	89	99
MSA-SW40D-030821	240-145599-12	108	103	89	104
MSA-SW41A-030821	240-145599-13	100	99	87	102
MSA-SW41B-030821	240-145599-14	101	97	87	102
MSA-SW41C-030821	240-145599-15	105	100	89	101
MSA-SW41D-030821	240-145599-16	105	101	88	100
MSA-SW42A-030821	240-145599-17	100	103	94	107
MSA-SW42A-030821	240-145599-17	92	91	99	118
MSA-SW42B-030821	240-145599-18	99	102	94	108
MSA-SW42B-030821	240-145599-18	93	94	101	120
MSA-SW42C-030821	240-145599-19	105	101	91	108
MSA-SW42C-030821	240-145599-19	93	92	101	120
MSA-SW42D-030821	240-145599-20	110	124	105	100
MSA-SW43A-030821	240-145599-21	112	123	105	99
MSA-SW43B-030821	240-145599-22	114	123	106	99
MSA-SW43C-030821	240-145599-23	112	125	105	101
MSA-SW43D-030821	240-145599-24	113	126	103	99
MSA-SW44A-030821	240-145599-25	113	123	103	99
MSA-SW44B-030821	240-145599-26	117	127	107	101
MSA-SW44C-030821	240-145599-27	117	128	106	102
MSA-SW44D-030821	240-145599-28	113	123	104	99
TB-030821	240-145599-29	115	128	107	102
MSA-SW46A-030821	240-145599-30	103	101	93	110
MSA-SW46A-030821	240-145599-30	93	92	99	118
MSA-SW47A-030821	240-145599-31	106	104	91	104

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	78-129
DCA = 1,2-Dichloroethane-d4 (Surr)	75-130
TOL = Toluene-d8 (Surr)	69-122
BFB = 4-Bromofluorobenzene (Surr)	47-134

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MSA-SW48A-030821	240-145599-32	100	104	91	106
MSA-SW49A-030821	240-145599-33	106	103	92	108
	MB 240-476369/8	103	99	89	101
	MB 240-476858/8	111	119	103	103
	MB 240-476975/8	102	103	93	108
	MB 240-477127/8	93	91	99	119
	LCS 240-476369/5	91	89	89	103
	LCS 240-476858/5	111	114	107	108
	LCS 240-476975/5	91	94	97	111
	LCS 240-477127/10	91	89	99	119
	LCSD 240-476369/10	89	87	89	100
	LCSD 240-476975/10	90	92	97	111
	240-145830-A-2 MS	92	91	99	118
	240-145830-A-2 MSD	90	91	101	120

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	78-129
DCA = 1,2-Dichloroethane-d4 (Surr)	75-130
TOL = Toluene-d8 (Surr)	69-122
BFB = 4-Bromofluorobenzene (Surr)	47-134

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35610.D

Lab ID: LCS 240-476369/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	35.8	90	33-155	
Benzene	20.0	21.0	105	77-123	
Bromobenzene	20.0	21.6	108	77-120	
Bromochloromethane	20.0	21.6	108	70-128	
Bromodichloromethane	20.0	21.9	110	73-122	
Bromoform	20.0	17.7	88	47-133	
Bromomethane	20.0	18.2	91	48-144	
2-Butanone	40.0	31.5	79	41-151	
Carbon disulfide	20.0	19.3	97	67-127	
Carbon tetrachloride	20.0	21.9	110	61-142	
Chlorobenzene	20.0	21.5	108	80-120	
Chloroethane	20.0	21.6	108	41-147	
2-Chloroethyl vinyl ether	20.0	16.1	81	29-146	
Chloroform	20.0	21.9	109	74-127	
Chloromethane	20.0	23.5	117	46-148	
2-Chlorotoluene	20.0	21.8	109	73-126	
4-Chlorotoluene	20.0	21.9	109	73-126	
cis-1,2-Dichloroethene	20.0	22.2	111	75-124	
cis-1,3-Dichloropropene	20.0	20.1	100	68-128	
Dibromochloromethane	20.0	20.8	104	75-120	
1,2-Dibromo-3-Chloropropane	20.0	17.6	88	34-136	
1,2-Dibromoethane	20.0	19.7	98	73-120	
Dibromomethane	20.0	20.7	103	67-121	
1,2-Dichlorobenzene	20.0	20.2	101	74-120	
1,3-Dichlorobenzene	20.0	21.0	105	74-120	
1,4-Dichlorobenzene	20.0	21.2	106	75-120	
Dichlorodifluoromethane	20.0	24.6	123	35-137	
1,1-Dichloroethane	20.0	21.9	109	74-126	
1,2-Dichloroethane	20.0	21.4	107	66-129	
1,1-Dichloroethene	20.0	21.7	109	73-129	
1,2-Dichloropropane	20.0	21.7	108	79-127	
1,3-Dichloropropane	20.0	20.2	101	74-122	
2,2-Dichloropropane	20.0	22.2	111	67-137	
1,1-Dichloropropene	20.0	21.4	107	78-120	
Ethylbenzene	20.0	22.0	110	80-120	
Hexachlorobutadiene	20.0	20.1	100	40-120	
2-Hexanone	40.0	35.7	89	43-142	
Isopropylbenzene	20.0	23.0	115	73-123	
Methylene Chloride	20.0	20.5	102	63-134	
4-Methyl-2-pentanone	40.0	34.1	85	43-145	
Methyl tert-butyl ether	20.0	18.8	94	57-127	
m-Xylene & p-Xylene	20.0	22.1	110	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35610.D

Lab ID: LCS 240-476369/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	19.7	98	28-130	
n-Butylbenzene	20.0	21.5	108	54-129	
n-Propylbenzene	20.0	22.3	111	67-130	
o-Xylene	20.0	22.0	110	75-123	
p-Isopropyltoluene	20.0	22.4	112	66-127	
sec-Butylbenzene	20.0	22.6	113	60-131	
Styrene	20.0	19.7	99	75-121	
tert-Butyl alcohol	200	167	83	15-169	
tert-Butylbenzene	20.0	22.4	112	63-126	
1,1,1,2-Tetrachloroethane	20.0	20.1	101	77-120	
1,1,2,2-Tetrachloroethane	20.0	17.9	89	45-151	
Tetrachloroethene	20.0	21.8	109	70-125	
Toluene	20.0	21.6	108	79-122	
trans-1,2-Dichloroethene	20.0	21.5	108	74-130	
trans-1,3-Dichloropropene	20.0	18.2	91	64-120	
1,2,3-Trichlorobenzene	20.0	19.9	100	42-126	
1,2,4-Trichlorobenzene	20.0	19.7	99	47-120	
1,1,1-Trichloroethane	20.0	22.1	111	65-141	
Trichloroethene	20.0	20.7	104	71-121	
Trichlorofluoromethane	20.0	24.6	123	52-148	
1,2,3-Trichloropropane	20.0	18.4	92	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	25.2	126	54-148	
1,2,4-Trimethylbenzene	20.0	21.7	109	66-129	
Vinyl acetate	20.0	16.9	85	44-160	
Vinyl chloride	20.0	25.6	128	61-134	
Xylenes, Total	40.0	44.1	110	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: U1920961.d

Lab ID: LCS 240-476858/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	47.8	120	33-155	
Benzene	20.0	22.4	112	77-123	
Bromobenzene	20.0	18.3	92	77-120	
Bromochloromethane	20.0	23.4	117	70-128	
Bromodichloromethane	20.0	20.9	104	73-122	
Bromoform	20.0	16.2	81	47-133	
Bromomethane	20.0	20.6	103	48-144	
2-Butanone	40.0	40.9	102	41-151	
Carbon disulfide	20.0	16.7	83	67-127	
Carbon tetrachloride	20.0	18.1	91	61-142	
Chlorobenzene	20.0	19.6	98	80-120	
Chloroethane	20.0	24.4	122	41-147	
2-Chloroethyl vinyl ether	20.0	23.6	118	29-146	
Chloroform	20.0	22.4	112	74-127	
Chloromethane	20.0	24.0	120	46-148	
2-Chlorotoluene	20.0	21.2	106	73-126	
4-Chlorotoluene	20.0	20.5	103	73-126	
cis-1,2-Dichloroethene	20.0	20.7	104	75-124	
cis-1,3-Dichloropropene	20.0	21.3	107	68-128	
Dibromochloromethane	20.0	18.5	93	75-120	
1,2-Dibromo-3-Chloropropane	20.0	18.0	90	34-136	
1,2-Dibromoethane	20.0	18.8	94	73-120	
Dibromomethane	20.0	16.0	80	67-121	
1,2-Dichlorobenzene	20.0	19.3	97	74-120	
1,3-Dichlorobenzene	20.0	18.7	94	74-120	
1,4-Dichlorobenzene	20.0	18.6	93	75-120	
Dichlorodifluoromethane	20.0	15.9	80	35-137	
1,1-Dichloroethane	20.0	23.3	117	74-126	
1,2-Dichloroethane	20.0	21.7	108	66-129	
1,1-Dichloroethene	20.0	20.6	103	73-129	
1,2-Dichloropropane	20.0	24.5	122	79-127	
1,3-Dichloropropane	20.0	22.4	112	74-122	
2,2-Dichloropropane	20.0	20.2	101	67-137	
1,1-Dichloropropene	20.0	22.0	110	78-120	
Ethylbenzene	20.0	20.1	101	80-120	
Hexachlorobutadiene	20.0	12.5	63	40-120	
2-Hexanone	40.0	47.8	120	43-142	
Isopropylbenzene	20.0	19.9	100	73-123	
Methylene Chloride	20.0	23.5	118	63-134	
4-Methyl-2-pentanone	40.0	48.2	121	43-145	
Methyl tert-butyl ether	20.0	19.6	98	57-127	
m-Xylene & p-Xylene	20.0	20.2	101	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: U1920961.d

Lab ID: LCS 240-476858/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	19.3	97	28-130	
n-Butylbenzene	20.0	21.1	106	54-129	
n-Propylbenzene	20.0	21.2	106	67-130	
o-Xylene	20.0	20.5	103	75-123	
p-Isopropyltoluene	20.0	20.0	100	66-127	
sec-Butylbenzene	20.0	20.4	102	60-131	
Styrene	20.0	18.3	92	75-121	
tert-Butyl alcohol	200	228	114	15-169	
tert-Butylbenzene	20.0	19.5	98	63-126	
1,1,1,2-Tetrachloroethane	20.0	18.2	91	77-120	
1,1,2,2-Tetrachloroethane	20.0	23.9	119	45-151	
Tetrachloroethene	20.0	16.2	81	70-125	
Toluene	20.0	20.9	105	79-122	
trans-1,2-Dichloroethene	20.0	22.6	113	74-130	
trans-1,3-Dichloropropene	20.0	18.3	91	64-120	
1,2,3-Trichlorobenzene	20.0	16.7	84	42-126	
1,2,4-Trichlorobenzene	20.0	15.9	80	47-120	
1,1,1-Trichloroethane	20.0	19.1	95	65-141	
Trichloroethene	20.0	18.7	94	71-121	
Trichlorofluoromethane	20.0	18.3	91	52-148	
1,2,3-Trichloropropane	20.0	20.8	104	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	18.7	94	54-148	
1,2,4-Trimethylbenzene	20.0	21.6	108	66-129	
Vinyl acetate	20.0	21.0	105	44-160	
Vinyl chloride	20.0	24.3	121	61-134	
Xylenes, Total	40.0	40.7	102	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35683.D

Lab ID: LCS 240-476975/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	41.0	103	33-155	
Benzene	20.0	20.2	101	77-123	
Bromobenzene	20.0	20.2	101	77-120	
Bromochloromethane	20.0	18.9	94	70-128	
Bromodichloromethane	20.0	20.8	104	73-122	
Bromoform	20.0	18.3	92	47-133	
Bromomethane	20.0	20.6	103	48-144	
2-Butanone	40.0	39.2	98	41-151	
Carbon disulfide	20.0	19.4	97	67-127	
Carbon tetrachloride	20.0	18.9	94	61-142	
Chlorobenzene	20.0	19.5	98	80-120	
Chloroethane	20.0	22.9	115	41-147	
2-Chloroethyl vinyl ether	20.0	18.3	91	29-146	
Chloroform	20.0	20.1	100	74-127	
Chloromethane	20.0	23.5	117	46-148	
2-Chlorotoluene	20.0	20.5	103	73-126	
4-Chlorotoluene	20.0	21.1	106	73-126	
cis-1,2-Dichloroethene	20.0	19.8	99	75-124	
cis-1,3-Dichloropropene	20.0	20.3	102	68-128	
Dibromochloromethane	20.0	19.6	98	75-120	
1,2-Dibromo-3-Chloropropane	20.0	19.8	99	34-136	
1,2-Dibromoethane	20.0	19.6	98	73-120	
Dibromomethane	20.0	19.1	96	67-121	
1,2-Dichlorobenzene	20.0	19.1	96	74-120	
1,3-Dichlorobenzene	20.0	19.6	98	74-120	
1,4-Dichlorobenzene	20.0	19.8	99	75-120	
Dichlorodifluoromethane	20.0	20.9	105	35-137	
1,1-Dichloroethane	20.0	21.5	107	74-126	
1,2-Dichloroethane	20.0	21.2	106	66-129	
1,1-Dichloroethene	20.0	19.7	99	73-129	
1,2-Dichloropropane	20.0	22.0	110	79-127	
1,3-Dichloropropane	20.0	21.6	108	74-122	
2,2-Dichloropropane	20.0	21.1	106	67-137	
1,1-Dichloropropene	20.0	20.7	103	78-120	
Ethylbenzene	20.0	20.1	101	80-120	
Hexachlorobutadiene	20.0	20.4	102	40-120	
2-Hexanone	40.0	46.4	116	43-142	
Isopropylbenzene	20.0	20.6	103	73-123	
Methylene Chloride	20.0	19.2	96	63-134	
4-Methyl-2-pentanone	40.0	43.3	108	43-145	
Methyl tert-butyl ether	20.0	20.0	100	57-127	
m-Xylene & p-Xylene	20.0	20.0	100	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35683.D

Lab ID: LCS 240-476975/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	21.2	106	28-130	
n-Butylbenzene	20.0	22.3	111	54-129	
n-Propylbenzene	20.0	21.2	106	67-130	
o-Xylene	20.0	20.0	100	75-123	
p-Isopropyltoluene	20.0	21.3	107	66-127	
sec-Butylbenzene	20.0	22.0	110	60-131	
Styrene	20.0	18.1	91	75-121	
tert-Butyl alcohol	200	214	107	15-169	
tert-Butylbenzene	20.0	20.9	104	63-126	
1,1,1,2-Tetrachloroethane	20.0	18.9	95	77-120	
1,1,2,2-Tetrachloroethane	20.0	21.0	105	45-151	
Tetrachloroethene	20.0	19.6	98	70-125	
Toluene	20.0	20.7	103	79-122	
trans-1,2-Dichloroethene	20.0	19.9	100	74-130	
trans-1,3-Dichloropropene	20.0	19.8	99	64-120	
1,2,3-Trichlorobenzene	20.0	21.1	106	42-126	
1,2,4-Trichlorobenzene	20.0	20.4	102	47-120	
1,1,1-Trichloroethane	20.0	19.8	99	65-141	
Trichloroethene	20.0	17.9	89	71-121	
Trichlorofluoromethane	20.0	23.1	115	52-148	
1,2,3-Trichloropropane	20.0	19.2	96	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	22.2	111	54-148	
1,2,4-Trimethylbenzene	20.0	21.3	106	66-129	
Vinyl acetate	20.0	21.6	108	44-160	
Vinyl chloride	20.0	25.2	126	61-134	
Xylenes, Total	40.0	40.0	100	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX994000.D

Lab ID: LCS 240-477127/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	43.5	109	33-155	
Benzene	20.0	19.9	100	77-123	
Bromobenzene	20.0	20.7	103	77-120	
Bromochloromethane	20.0	18.6	93	70-128	
Bromodichloromethane	20.0	19.6	98	73-122	
Bromoform	20.0	20.4	102	47-133	
Bromomethane	20.0	16.0	80	48-144	
2-Butanone	40.0	48.5	121	41-151	
Carbon disulfide	20.0	20.0	100	67-127	
Carbon tetrachloride	20.0	19.4	97	61-142	
Chlorobenzene	20.0	19.3	97	80-120	
Chloroethane	20.0	16.9	84	41-147	
2-Chloroethyl vinyl ether	20.0	23.2	116	29-146	
Chloroform	20.0	18.5	93	74-127	
Chloromethane	20.0	16.2	81	46-148	
2-Chlorotoluene	20.0	19.3	97	73-126	
4-Chlorotoluene	20.0	20.3	102	73-126	
cis-1,2-Dichloroethene	20.0	19.1	96	75-124	
cis-1,3-Dichloropropene	20.0	21.4	107	68-128	
Dibromochloromethane	20.0	19.1	96	75-120	
1,2-Dibromo-3-Chloropropane	20.0	18.0	90	34-136	
1,2-Dibromoethane	20.0	20.4	102	73-120	
Dibromomethane	20.0	20.3	101	67-121	
1,2-Dichlorobenzene	20.0	18.3	92	74-120	
1,3-Dichlorobenzene	20.0	18.9	95	74-120	
1,4-Dichlorobenzene	20.0	19.5	98	75-120	
Dichlorodifluoromethane	20.0	16.0	80	35-137	
1,1-Dichloroethane	20.0	19.0	95	74-126	
1,2-Dichloroethane	20.0	18.6	93	66-129	
1,1-Dichloroethene	20.0	19.0	95	73-129	
1,2-Dichloropropane	20.0	21.3	107	79-127	
1,3-Dichloropropane	20.0	19.6	98	74-122	
2,2-Dichloropropane	20.0	18.9	95	67-137	
1,1-Dichloropropene	20.0	20.1	101	78-120	
Ethylbenzene	20.0	20.1	100	80-120	
Hexachlorobutadiene	20.0	18.0	90	40-120	
2-Hexanone	40.0	44.8	112	43-142	
Isopropylbenzene	20.0	19.3	97	73-123	
Methylene Chloride	20.0	17.4	87	63-134	
4-Methyl-2-pentanone	40.0	42.2	106	43-145	
Methyl tert-butyl ether	20.0	19.4	97	57-127	
m-Xylene & p-Xylene	20.0	19.9	100	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX994000.D

Lab ID: LCS 240-477127/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	17.8	89	28-130	
n-Butylbenzene	20.0	19.0	95	54-129	
n-Propylbenzene	20.0	20.0	100	67-130	
o-Xylene	20.0	19.4	97	75-123	
p-Isopropyltoluene	20.0	19.5	98	66-127	
sec-Butylbenzene	20.0	19.6	98	60-131	
Styrene	20.0	20.7	103	75-121	
tert-Butyl alcohol	200	191	96	15-169	
tert-Butylbenzene	20.0	18.4	92	63-126	
1,1,1,2-Tetrachloroethane	20.0	18.5	92	77-120	
1,1,2,2-Tetrachloroethane	20.0	19.9	99	45-151	
Tetrachloroethene	20.0	19.9	100	70-125	
Toluene	20.0	19.3	96	79-122	
trans-1,2-Dichloroethene	20.0	19.4	97	74-130	
trans-1,3-Dichloropropene	20.0	19.3	96	64-120	
1,2,3-Trichlorobenzene	20.0	17.3	86	42-126	
1,2,4-Trichlorobenzene	20.0	17.5	88	47-120	
1,1,1-Trichloroethane	20.0	19.2	96	65-141	
Trichloroethene	20.0	19.8	99	71-121	
Trichlorofluoromethane	20.0	16.2	81	52-148	
1,2,3-Trichloropropane	20.0	20.2	101	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	20.8	104	54-148	
1,2,4-Trimethylbenzene	20.0	19.7	98	66-129	
Vinyl acetate	20.0	25.0	125	44-160	
Vinyl chloride	20.0	17.8	89	61-134	
Xylenes, Total	40.0	39.3	98	78-122	

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35615.D

Lab ID: LCSD 240-476369/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	40.0	34.5	86	4	35	33-155	
Benzene	20.0	19.4	97	8	35	77-123	
Bromobenzene	20.0	20.1	100	7	35	77-120	
Bromochloromethane	20.0	19.8	99	9	35	70-128	
Bromodichloromethane	20.0	19.6	98	11	35	73-122	
Bromoform	20.0	16.5	83	7	35	47-133	
Bromomethane	20.0	18.1	91	1	35	48-144	
2-Butanone	40.0	31.3	78	1	35	41-151	
Carbon disulfide	20.0	17.5	87	10	35	67-127	
Carbon tetrachloride	20.0	19.7	99	11	35	61-142	
Chlorobenzene	20.0	19.5	98	10	35	80-120	
Chloroethane	20.0	21.0	105	3	35	41-147	
2-Chloroethyl vinyl ether	20.0	14.7	74	9	35	29-146	
Chloroform	20.0	19.6	98	11	35	74-127	
Chloromethane	20.0	21.4	107	9	35	46-148	
2-Chlorotoluene	20.0	20.2	101	8	35	73-126	
4-Chlorotoluene	20.0	20.7	104	5	35	73-126	
cis-1,2-Dichloroethene	20.0	20.6	103	8	35	75-124	
cis-1,3-Dichloropropene	20.0	18.1	90	10	35	68-128	
Dibromochloromethane	20.0	18.9	94	10	35	75-120	
1,2-Dibromo-3-Chloropropane	20.0	16.9	84	4	35	34-136	
1,2-Dibromoethane	20.0	18.2	91	8	35	73-120	
Dibromomethane	20.0	19.1	95	8	35	67-121	
1,2-Dichlorobenzene	20.0	19.3	96	5	35	74-120	
1,3-Dichlorobenzene	20.0	19.6	98	7	35	74-120	
1,4-Dichlorobenzene	20.0	20.0	100	6	35	75-120	
Dichlorodifluoromethane	20.0	23.2	116	6	35	35-137	
1,1-Dichloroethane	20.0	19.9	100	9	35	74-126	
1,2-Dichloroethane	20.0	19.0	95	12	35	66-129	
1,1-Dichloroethene	20.0	19.6	98	10	35	73-129	
1,2-Dichloropropane	20.0	20.0	100	8	35	79-127	
1,3-Dichloropropane	20.0	18.6	93	8	35	74-122	
2,2-Dichloropropane	20.0	20.4	102	9	35	67-137	
1,1-Dichloropropene	20.0	19.4	97	10	35	78-120	
Ethylbenzene	20.0	20.0	100	9	35	80-120	
Hexachlorobutadiene	20.0	19.6	98	3	35	40-120	
2-Hexanone	40.0	33.2	83	7	35	43-142	
Isopropylbenzene	20.0	20.8	104	10	35	73-123	
Methylene Chloride	20.0	18.6	93	10	35	63-134	
4-Methyl-2-pentanone	40.0	31.8	79	7	35	43-145	
Methyl tert-butyl ether	20.0	17.2	86	9	35	57-127	
m-Xylene & p-Xylene	20.0	20.1	101	9	35	79-121	

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35615.D

Lab ID: LCSD 240-476369/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	20.0	19.1	96	3	35	28-130	
n-Butylbenzene	20.0	20.7	103	4	35	54-129	
n-Propylbenzene	20.0	21.0	105	6	35	67-130	
o-Xylene	20.0	20.1	101	9	35	75-123	
p-Isopropyltoluene	20.0	21.3	107	5	35	66-127	
sec-Butylbenzene	20.0	21.4	107	5	35	60-131	
Styrene	20.0	18.0	90	9	35	75-121	
tert-Butyl alcohol	200	157	79	6	35	15-169	
tert-Butylbenzene	20.0	20.9	105	7	35	63-126	
1,1,1,2-Tetrachloroethane	20.0	18.7	94	7	35	77-120	
1,1,2,2-Tetrachloroethane	20.0	17.6	88	2	35	45-151	
Tetrachloroethene	20.0	20.4	102	6	35	70-125	
Toluene	20.0	19.8	99	9	35	79-122	
trans-1,2-Dichloroethene	20.0	19.7	99	9	35	74-130	
trans-1,3-Dichloropropene	20.0	16.4	82	10	35	64-120	
1,2,3-Trichlorobenzene	20.0	19.5	98	2	35	42-126	
1,2,4-Trichlorobenzene	20.0	19.4	97	1	35	47-120	
1,1,1-Trichloroethane	20.0	20.0	100	10	35	65-141	
Trichloroethene	20.0	18.6	93	11	35	71-121	
Trichlorofluoromethane	20.0	23.9	120	3	35	52-148	
1,2,3-Trichloropropane	20.0	17.4	87	5	35	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	22.6	113	11	35	54-148	
1,2,4-Trimethylbenzene	20.0	20.4	102	6	35	66-129	
Vinyl acetate	20.0	15.5	78	9	35	44-160	
Vinyl chloride	20.0	23.3	116	9	35	61-134	
Xylenes, Total	40.0	40.2	101	9	35	78-122	

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35688.D

Lab ID: LCSD 240-476975/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	40.0	38.5	96	6	35	33-155	
Benzene	20.0	20.2	101	0	35	77-123	
Bromobenzene	20.0	19.4	97	4	35	77-120	
Bromochloromethane	20.0	19.2	96	2	35	70-128	
Bromodichloromethane	20.0	20.6	103	1	35	73-122	
Bromoform	20.0	17.6	88	4	35	47-133	
Bromomethane	20.0	18.9	94	9	35	48-144	
2-Butanone	40.0	36.3	91	8	35	41-151	
Carbon disulfide	20.0	19.4	97	0	35	67-127	
Carbon tetrachloride	20.0	19.6	98	4	35	61-142	
Chlorobenzene	20.0	19.9	100	2	35	80-120	
Chloroethane	20.0	20.8	104	10	35	41-147	
2-Chloroethyl vinyl ether	20.0	17.4	87	5	35	29-146	
Chloroform	20.0	20.3	102	1	35	74-127	
Chloromethane	20.0	21.3	106	10	35	46-148	
2-Chlorotoluene	20.0	20.8	104	1	35	73-126	
4-Chlorotoluene	20.0	21.4	107	1	35	73-126	
cis-1,2-Dichloroethene	20.0	20.2	101	2	35	75-124	
cis-1,3-Dichloropropene	20.0	19.8	99	3	35	68-128	
Dibromochloromethane	20.0	19.0	95	3	35	75-120	
1,2-Dibromo-3-Chloropropane	20.0	18.4	92	7	35	34-136	
1,2-Dibromoethane	20.0	19.1	96	3	35	73-120	
Dibromomethane	20.0	19.1	96	0	35	67-121	
1,2-Dichlorobenzene	20.0	18.8	94	2	35	74-120	
1,3-Dichlorobenzene	20.0	19.2	96	2	35	74-120	
1,4-Dichlorobenzene	20.0	19.6	98	1	35	75-120	
Dichlorodifluoromethane	20.0	19.5	98	7	35	35-137	
1,1-Dichloroethane	20.0	21.7	108	1	35	74-126	
1,2-Dichloroethane	20.0	20.7	104	2	35	66-129	
1,1-Dichloroethene	20.0	20.6	103	5	35	73-129	
1,2-Dichloropropane	20.0	22.3	111	1	35	79-127	
1,3-Dichloropropane	20.0	21.2	106	2	35	74-122	
2,2-Dichloropropane	20.0	21.5	108	2	35	67-137	
1,1-Dichloropropene	20.0	20.8	104	1	35	78-120	
Ethylbenzene	20.0	20.3	102	1	35	80-120	
Hexachlorobutadiene	20.0	20.1	101	2	35	40-120	
2-Hexanone	40.0	43.1	108	7	35	43-142	
Isopropylbenzene	20.0	21.4	107	3	35	73-123	
Methylene Chloride	20.0	19.2	96	0	35	63-134	
4-Methyl-2-pentanone	40.0	40.2	101	7	35	43-145	
Methyl tert-butyl ether	20.0	19.2	96	4	35	57-127	
m-Xylene & p-Xylene	20.0	20.6	103	3	35	79-121	

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35688.D

Lab ID: LCSD 240-476975/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	20.0	20.0	100	6	35	28-130	
n-Butylbenzene	20.0	22.3	112	0	35	54-129	
n-Propylbenzene	20.0	21.5	108	2	35	67-130	
o-Xylene	20.0	20.6	103	3	35	75-123	
p-Isopropyltoluene	20.0	21.6	108	1	35	66-127	
sec-Butylbenzene	20.0	22.3	111	1	35	60-131	
Styrene	20.0	18.7	93	3	35	75-121	
tert-Butyl alcohol	200	199	99	8	35	15-169	
tert-Butylbenzene	20.0	21.3	107	2	35	63-126	
1,1,1,2-Tetrachloroethane	20.0	19.0	95	0	35	77-120	
1,1,2,2-Tetrachloroethane	20.0	19.8	99	6	35	45-151	
Tetrachloroethene	20.0	19.4	97	1	35	70-125	
Toluene	20.0	21.0	105	2	35	79-122	
trans-1,2-Dichloroethene	20.0	20.2	101	1	35	74-130	
trans-1,3-Dichloropropene	20.0	18.8	94	5	35	64-120	
1,2,3-Trichlorobenzene	20.0	19.9	100	6	35	42-126	
1,2,4-Trichlorobenzene	20.0	19.7	99	3	35	47-120	
1,1,1-Trichloroethane	20.0	20.1	101	2	35	65-141	
Trichloroethene	20.0	18.2	91	2	35	71-121	
Trichlorofluoromethane	20.0	21.8	109	6	35	52-148	
1,2,3-Trichloropropane	20.0	18.7	94	3	35	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	22.8	114	3	35	54-148	
1,2,4-Trimethylbenzene	20.0	21.0	105	1	35	66-129	
Vinyl acetate	20.0	20.2	101	7	35	44-160	
Vinyl chloride	20.0	23.6	118	6	35	61-134	
Xylenes, Total	40.0	41.2	103	3	35	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX994019.D

Lab ID: 240-145830-A-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	400	100 U	422	106	32-157	
Benzene	200	10 U	185	93	70-121	
Bromobenzene	200	10 U	184	92	66-120	
Bromodichloromethane	200	10 U	181	90	69-120	
Bromoform	200	10 U	180	90	41-128	
Bromomethane	200	10 U	171	85	41-136	
2-Butanone	400	100 U	445	111	40-147	
Carbon disulfide	200	10 U	181	90	54-131	
Carbon tetrachloride	200	10 U	174	87	53-142	
Chlorobenzene	200	10 U	172	86	73-120	
Chloroethane	200	10 U	176	88	37-142	
Chloroform	200	1.7 J	175	87	66-126	
Chloromethane	200	10 U	166	83	33-146	
2-Chlorotoluene	200	10 U	172	86	50-130	
4-Chlorotoluene	200	10 U	177	88	49-133	
cis-1,2-Dichloroethene	200	10 U	181	90	68-121	
cis-1,3-Dichloropropene	200	10 U	188	94	56-121	
Dibromochloromethane	200	10 U	170	85	66-120	
1,2-Dibromo-3-Chloropropane	200	20 U	168	84	31-130	
1,2-Dibromoethane	200	10 U	185	92	66-120	
1,2-Dichlorobenzene	200	10 U	165	83	65-120	
1,3-Dichlorobenzene	200	10 U	167	84	64-120	
1,4-Dichlorobenzene	200	10 U	173	87	65-120	
Dichlorodifluoromethane	200	10 U	152	76	27-132	
1,1-Dichloroethane	200	10 U	179	90	71-121	
1,2-Dichloroethane	200	10 U	174	87	65-127	
1,1-Dichloroethene	200	10 U	173	86	64-132	
1,2-Dichloropropane	200	10 U	193	96	73-125	
Ethylbenzene	200	10 U	178	89	66-122	
Hexachlorobutadiene	200	10 U	157	78	17-120	
2-Hexanone	400	100 U	410	102	44-142	
Isopropylbenzene	200	10 U	170	85	56-122	
Methylene Chloride	200	50 U	163	82	59-127	
4-Methyl-2-pentanone	400	100 U	394	98	40-147	
Methyl tert-butyl ether	200	10 U	185	93	50-126	
m-Xylene & p-Xylene	200	20 U	175	87	65-123	
Naphthalene	200	10 U	166	83	30-125	
n-Butylbenzene	200	10 U	161	80	27-135	
n-Propylbenzene	200	10 U	175	88	40-136	
o-Xylene	200	10 U	173	86	63-124	
p-Isopropyltoluene	200	10 U	169	84	39-133	
sec-Butylbenzene	200	10 U	171	86	32-139	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX994019.D

Lab ID: 240-145830-A-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Styrene	200	10 U	181	91	57-126	
tert-Butylbenzene	200	10 U	161	81	36-133	
1,1,2,2-Tetrachloroethane	200	10 U	190	95	37-149	
Tetrachloroethene	200	10 U	171	86	52-129	
Toluene	200	10 U	173	87	68-124	
trans-1,2-Dichloroethene	200	10 U	182	91	69-126	
trans-1,3-Dichloropropene	200	10 U	171	86	53-120	
1,2,3-Trichlorobenzene	200	10 U	160	80	32-122	
1,2,4-Trichlorobenzene	200	10 U	159	80	37-120	
1,1,1-Trichloroethane	200	10 U	174	87	62-135	
Trichloroethene	200	430	545	56	56-124	
Trichlorofluoromethane	200	10 U	161	81	45-152	
1,1,2-Trichloro-1,2,2-trichfluoroethane	200	10 U	185	92	41-145	
1,2,4-Trimethylbenzene	200	10 U	173	86	49-120	
Vinyl chloride	200	10 U	180	90	49-136	
Xylenes, Total	400	20 U	348	87	64-124	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX994020.D

Lab ID: 240-145830-A-2 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	400	458	115	8	35	32-157	
Benzene	200	197	98	6	35	70-121	
Bromobenzene	200	198	99	7	11	66-120	
Bromodichloromethane	200	197	99	9	35	69-120	
Bromoform	200	203	102	12	35	41-128	
Bromomethane	200	160	80	6	35	41-136	
2-Butanone	400	470	117	5	35	40-147	
Carbon disulfide	200	199	100	10	35	54-131	
Carbon tetrachloride	200	187	94	7	35	53-142	
Chlorobenzene	200	189	94	9	35	73-120	
Chloroethane	200	167	84	5	35	37-142	
Chloroform	200	188	93	7	35	66-126	
Chloromethane	200	161	81	3	35	33-146	
2-Chlorotoluene	200	183	91	6	18	50-130	
4-Chlorotoluene	200	189	94	7	16	49-133	
cis-1,2-Dichloroethene	200	193	97	7	35	68-121	
cis-1,3-Dichloropropene	200	206	103	9	35	56-121	
Dibromochloromethane	200	191	95	11	35	66-120	
1,2-Dibromo-3-Chloropropane	200	179	89	6	35	31-130	
1,2-Dibromoethane	200	202	101	9	35	66-120	
1,2-Dichlorobenzene	200	173	87	5	35	65-120	
1,3-Dichlorobenzene	200	179	89	7	35	64-120	
1,4-Dichlorobenzene	200	185	93	7	35	65-120	
Dichlorodifluoromethane	200	148	74	3	35	27-132	
1,1-Dichloroethane	200	193	96	7	35	71-121	
1,2-Dichloroethane	200	186	93	7	35	65-127	
1,1-Dichloroethene	200	186	93	8	35	64-132	
1,2-Dichloropropane	200	208	104	8	35	73-125	
Ethylbenzene	200	190	95	6	35	66-122	
Hexachlorobutadiene	200	170	85	8	35	17-120	
2-Hexanone	400	457	114	11	35	44-142	
Isopropylbenzene	200	181	91	7	20	56-122	
Methylene Chloride	200	175	88	7	32	59-127	
4-Methyl-2-pentanone	400	425	106	8	35	40-147	
Methyl tert-butyl ether	200	196	98	6	17	50-126	
m-Xylene & p-Xylene	200	192	96	9	35	65-123	
Naphthalene	200	169	85	2	24	30-125	
n-Butylbenzene	200	173	87	8	24	27-135	
n-Propylbenzene	200	186	93	6	18	40-136	
o-Xylene	200	186	93	7	35	63-124	
p-Isopropyltoluene	200	178	89	6	22	39-133	
sec-Butylbenzene	200	181	90	5	24	32-139	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX994020.D

Lab ID: 240-145830-A-2 MSD Client ID:

SAMPLE NOT IN THIS SDG

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	200	199	100	10	35	57-126	
tert-Butylbenzene	200	194	97	18	23	36-133	
1,1,2,2-Tetrachloroethane	200	202	101	6	35	37-149	
Tetrachloroethene	200	185	93	8	35	52-129	
Toluene	200	187	93	8	35	68-124	
trans-1,2-Dichloroethene	200	192	96	6	35	69-126	
trans-1,3-Dichloropropene	200	189	95	10	35	53-120	
1,2,3-Trichlorobenzene	200	162	81	1	24	32-122	
1,2,4-Trichlorobenzene	200	164	82	3	25	37-120	
1,1,1-Trichloroethane	200	186	93	6	35	62-135	
Trichloroethene	200	524	45	4	35	56-124	F1
Trichlorofluoromethane	200	154	77	4	35	45-152	
1,1,2-Trichloro-1,2,2-trichfluoroethane	200	191	96	3	35	41-145	
1,2,4-Trimethylbenzene	200	186	93	7	16	49-120	
Vinyl chloride	200	172	86	4	35	49-136	
Xylenes, Total	400	378	95	8	35	64-124	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: UXM35613.D Lab Sample ID: MB 240-476369/8

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

Instrument ID: A3UX16 Date Analyzed: 03/11/2021 11:11

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-476369/5	UXM35610.D	03/11/2021 09:57
	LCSD 240-476369/10	UXM35615.D	03/11/2021 12:00
MSA-SW37A-030821	240-145599-1	UXM35616.D	03/11/2021 12:25
MSA-SW37B-030821	240-145599-2	UXM35617.D	03/11/2021 12:49
MSA-SW37C-030821	240-145599-3	UXM35618.D	03/11/2021 13:24
MSA-SW37D-030821	240-145599-4	UXM35619.D	03/11/2021 13:48
MSA-SW38A-030821	240-145599-5	UXM35620.D	03/11/2021 14:13
MSA-SW38B-030821	240-145599-6	UXM35621.D	03/11/2021 14:37
MSA-SW38C-030821	240-145599-7	UXM35622.D	03/11/2021 15:02
MSA-SW38D-030821	240-145599-8	UXM35623.D	03/11/2021 15:27
MSA-SW40A-030821	240-145599-9	UXM35624.D	03/11/2021 15:51
MSA-SW40B-030821	240-145599-10	UXM35625.D	03/11/2021 16:16
MSA-SW40C-030821	240-145599-11	UXM35626.D	03/11/2021 16:41
MSA-SW40D-030821	240-145599-12	UXM35627.D	03/11/2021 17:05
MSA-SW41A-030821	240-145599-13	UXM35628.D	03/11/2021 17:30
MSA-SW41B-030821	240-145599-14	UXM35629.D	03/11/2021 17:54
MSA-SW41C-030821	240-145599-15	UXM35630.D	03/11/2021 18:19
MSA-SW41D-030821	240-145599-16	UXM35631.D	03/11/2021 18:43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476369/8

Matrix: Water Lab File ID: UXM35613.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 11:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476369/8

Matrix: Water Lab File ID: UXM35613.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 11:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476369/8

Matrix: Water Lab File ID: UXM35613.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 11:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	103		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476369/8

Matrix: Water Lab File ID: UXM35613.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 11:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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 IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: U1920964.d Lab Sample ID: MB 240-476858/8

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

Instrument ID: A3UX19 Date Analyzed: 03/15/2021 20:55

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-476858/5	U1920961.d	03/15/2021 19:29
MSA-SW42D-030821	240-145599-20	U1920973.d	03/16/2021 01:05
MSA-SW43A-030821	240-145599-21	U1920974.d	03/16/2021 01:34
MSA-SW43B-030821	240-145599-22	U1920975.d	03/16/2021 02:09
MSA-SW43C-030821	240-145599-23	U1920976.d	03/16/2021 02:36
MSA-SW43D-030821	240-145599-24	U1920977.d	03/16/2021 03:06
MSA-SW44A-030821	240-145599-25	U1920978.d	03/16/2021 03:36
MSA-SW44B-030821	240-145599-26	U1920979.d	03/16/2021 04:06
MSA-SW44C-030821	240-145599-27	U1920980.d	03/16/2021 04:37
MSA-SW44D-030821	240-145599-28	U1920981.d	03/16/2021 05:17
TB-030821	240-145599-29	U1920982.d	03/16/2021 05:48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476858/8

Matrix: Water Lab File ID: U1920964.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2021 20:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476858/8

Matrix: Water Lab File ID: U1920964.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2021 20:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476858/8

Matrix: Water Lab File ID: U1920964.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2021 20:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		47-134
1868-53-7	Dibromofluoromethane (Surr)	111		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476858/8

Matrix: Water Lab File ID: U1920964.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2021 20:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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 IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: UXM35686.D Lab Sample ID: MB 240-476975/8

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

Instrument ID: A3UX16 Date Analyzed: 03/16/2021 12:42

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-476975/5	UXM35683.D	03/16/2021 11:28
	LCSD 240-476975/10	UXM35688.D	03/16/2021 13:32
MSA-SW42A-030821	240-145599-17	UXM35689.D	03/16/2021 13:57
MSA-SW42B-030821	240-145599-18	UXM35690.D	03/16/2021 14:21
MSA-SW42C-030821	240-145599-19	UXM35691.D	03/16/2021 14:46
MSA-SW46A-030821	240-145599-30	UXM35692.D	03/16/2021 15:10
MSA-SW47A-030821	240-145599-31	UXM35693.D	03/16/2021 15:35
MSA-SW48A-030821	240-145599-32	UXM35694.D	03/16/2021 15:59
MSA-SW49A-030821	240-145599-33	UXM35695.D	03/16/2021 16:24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476975/8

Matrix: Water Lab File ID: UXM35686.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 12:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476975/8

Matrix: Water Lab File ID: UXM35686.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 12:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476975/8

Matrix: Water Lab File ID: UXM35686.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 12:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	102		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-130
2037-26-5	Toluene-d8 (Surr)	93		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476975/8

Matrix: Water Lab File ID: UXM35686.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 12:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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 IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: UX993998.D Lab Sample ID: MB 240-477127/8

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

Instrument ID: A3UX9 Date Analyzed: 03/17/2021 09:50

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-477127/10	UX994000.D	03/17/2021 10:36
MSA-SW42A-030821	240-145599-17	UX994003.D	03/17/2021 12:01
MSA-SW42B-030821	240-145599-18	UX994004.D	03/17/2021 12:23
MSA-SW42C-030821	240-145599-19	UX994005.D	03/17/2021 12:46
MSA-SW46A-030821	240-145599-30	UX994006.D	03/17/2021 13:08
	240-145830-A-2 MS	UX994019.D	03/17/2021 18:02
	240-145830-A-2 MSD	UX994020.D	03/17/2021 18:25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-477127/8

Matrix: Water Lab File ID: UX993998.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 09:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-477127/8

Matrix: Water Lab File ID: UX993998.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 09:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-477127/8

Matrix: Water Lab File ID: UX993998.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 09:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	119		47-134
1868-53-7	Dibromofluoromethane (Surr)	93		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	99		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-477127/8

Matrix: Water Lab File ID: UX993998.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 09:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 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 V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: BFB6489.D BFB Injection Date: 09/08/2020

Instrument ID: A3UX16 BFB Injection Time: 11:23

Analysis Batch No.: 450378

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.6	
75	30.0 - 60.0 % of mass 95	48.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	86.4	
175	5.0 - 9.0 % of mass 174	6.5	(7.6) 1
176	95.0 - 101.0 % of mass 174	83.4	(96.5) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-450378/9	UXM31022.D	09/08/2020	12:22
	STD8260 240-450378/10	UXM31023.D	09/08/2020	12:47
	STD8260 240-450378/11	UXM31024.D	09/08/2020	13:12
	ICIS 240-450378/12	UXM31025.D	09/08/2020	13:36
	STD8260 240-450378/13	UXM31026.D	09/08/2020	14:01
	STD8260 240-450378/14	UXM31027.D	09/08/2020	14:26
	STD8260 240-450378/15	UXM31028.D	09/08/2020	14:50
	ICV 240-450378/16	UXM31029.D	09/08/2020	15:15
	STDA9 240-450378/19	UXM31032.D	09/08/2020	16:30
	STDA9 240-450378/20	UXM31033.D	09/08/2020	16:55
	STDA9 240-450378/21	UXM31034.D	09/08/2020	17:19
	STDA9 240-450378/22	UXM31035.D	09/08/2020	17:44
	STDA9 240-450378/23	UXM31036.D	09/08/2020	18:09
	STDA9 240-450378/24	UXM31037.D	09/08/2020	18:33
	ICV 240-450378/25	UXM31038.D	09/08/2020	18:58

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-450378/15	UXM31028.D
Level 2	STD8260 240-450378/14	UXM31027.D
Level 3	STD8260 240-450378/13	UXM31026.D
Level 4	ICIS 240-450378/12	UXM31025.D
Level 5	STD8260 240-450378/11	UXM31024.D
Level 6	STD8260 240-450378/10	UXM31023.D
Level 7	STD8260 240-450378/9	UXM31022.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								
Dichlorodifluoromethane	0.2218 0.2518	0.2214 0.2696	0.2659	0.2384	0.2602	Ave		0.2470			0.1000	8.2		20.0			
Chloromethane	0.3783 0.2945	0.3595 0.2731	0.3151	0.2876	0.2995	Ave		0.3154			0.1000	12.4		20.0			
Vinyl chloride	0.3441 0.3421	0.3320 0.3231	0.3537	0.3285	0.3450	Ave		0.3384			0.1000	3.2		20.0			
Butadiene	0.2796 0.3092	0.2936 0.3004	0.3107	0.2890	0.3054	Ave		0.2983				3.8		20.0			
Bromomethane	0.2541 +++++	0.2217 +++++	0.2020	0.1954	0.2132	Ave		0.2173			0.0500	10.6		20.0			
Chloroethane	0.1655 0.1853	0.1779 0.2067	0.1759	0.1659	0.1841	Ave		0.1802			0.0500	7.8		20.0			
Dichlorofluoromethane	0.3846 0.3845	0.4010 0.3725	0.3846	0.3676	0.3876	Ave		0.3832				2.8		20.0			
Trichlorofluoromethane	0.2930 0.3557	0.3059 0.3590	0.3637	0.3336	0.3592	Ave		0.3386			0.1000	8.5		20.0			
Ethyl ether	0.1631 0.1632	0.1369 0.1628	0.1629	0.1573	0.1706	Ave		0.1595				6.7		20.0			
Acrolein	+++++ 0.0124	0.0103 +++++	0.0120	0.0115	0.0135	Ave		0.0119				10.0		20.0			
1,1-Dichloroethene	0.2222 0.2073	0.1865 0.2038	0.2049	0.2001	0.2092	Ave		0.2049			0.1000	5.2		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1208 0.1694	0.1413 0.1822	0.1752	0.1667	0.1746	Ave		0.1615			0.0500	13.7		20.0			
Acetone	0.0210 0.0158	0.0212 0.0170	0.0175	0.0150	0.0174	Ave		0.0178			0.0100	13.4		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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								
Iodomethane	0.3678 0.3170	0.3606 0.2758	0.2905	0.2939	0.3082	Ave		0.3163				11.2		20.0			
Carbon disulfide	0.6838 0.6546	0.6764 0.6419	0.6598	0.6452	0.6643	Ave		0.6609			0.1000	2.3		20.0			
Methyl acetate	0.1087 0.1222	0.1221 0.1326	0.1311	0.1148	0.1351	Ave		0.1238			0.1000	7.9		20.0			
3-Chloro-1-propene	0.2633 0.2720	0.2858 0.2612	0.2643	0.2604	0.2759	Ave		0.2690				3.5		20.0			
Methylene Chloride	0.2860 0.2270	0.2842 0.2199	0.2333	0.2192	0.2334	Ave		0.2433			0.1000	12.0		20.0			
tert-Butyl alcohol	+++++ 0.0153	0.0147 0.0168	0.0164	0.0141	0.0174	Ave		0.0158				8.1		20.0			
Acrylonitrile	0.0656 0.0726	0.0729 0.0766	0.0760	0.0696	0.0793	Ave		0.0732				6.3		20.0			
Methyl tert-butyl ether	0.4760 0.6053	0.4902 0.6075	0.5877	0.5678	0.6331	Ave		0.5668			0.1000	10.7		20.0			
trans-1,2-Dichloroethene	0.2384 0.2423	0.2596 0.2355	0.2429	0.2345	0.2444	Ave		0.2425			0.1000	3.5		20.0			
Hexane	+++++ 0.2745	0.1945 +++++	0.2886	0.2700	0.2962	Ave		0.2648				15.4		20.0			
Vinyl acetate	0.1774 0.3207	0.2093 0.3398	0.2710	0.2875	0.3366	Lin1	-0.111	0.3282				12.8			0.9970		0.9900
1,1-Dichloroethane	0.3589 0.3855	0.3749 0.3697	0.3804	0.3678	0.3882	Ave		0.3751			0.2000	2.8		20.0			
2-Butanone	+++++ 0.0233	0.0122 0.0251	0.0234	0.0204	0.0250	Lin1	-0.028	0.0244			0.0100	8.4			0.9970		0.9900
cis-1,2-Dichloroethene	0.2521 0.2623	0.2643 0.2545	0.2562	0.2551	0.2673	Ave		0.2588			0.1000	2.2		20.0			
2,2-Dichloropropane	0.2918 0.3402	0.2993 0.3392	0.3205	0.3204	0.3420	Ave		0.3219				6.3		20.0			
Bromochloromethane	0.1180 0.1235	0.1223 0.1158	0.1274	0.1225	0.1265	Ave		0.1223				3.4		20.0			
Tetrahydrofuran	0.0351 0.0470	0.0489 0.0517	0.0490	0.0450	0.0525	Ave		0.0470				12.4		20.0			
Chloroform	0.3746 0.3883	0.4063 0.3741	0.3899	0.3805	0.3963	Ave		0.3871			0.2000	3.0		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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								
1,1,1-Trichloroethane	0.3237 0.3547	0.3213 0.3428	0.3533	0.3400	0.3573	Ave		0.3419			0.1000	4.3		20.0			
Cyclohexane	0.2456 0.3363	0.2801 0.3663	0.3404	0.3252	0.3429	Ave		0.3195			0.1000	13.1		20.0			
1,1-Dichloropropene	0.2701 0.3241	0.2662 0.3191	0.3132	0.3070	0.3240	Ave		0.3034				8.2		20.0			
Carbon tetrachloride	0.2792 0.3197	0.2877 0.3130	0.3080	0.2981	0.3204	Ave		0.3037			0.1000	5.3		20.0			
Isobutyl alcohol	0.0028 0.0046	0.0033 0.0052	0.0047	0.0042	0.0052	Lin1	-0.036	0.0049				10.1			0.9950		0.9900
Benzene	0.8958 0.9477	0.8544 0.9278	0.9308	0.9089	0.9649	Ave		0.9186			0.5000	4.0		20.0			
1,2-Dichloroethane	0.2645 0.2824	0.2802 0.2758	0.2835	0.2723	0.2917	Ave		0.2786			0.1000	3.1		20.0			
n-Heptane	1.2696 0.1520	0.6897 +++++	0.2114	0.1709	0.1691	Lin1	0.5569	0.1475				7.2			0.9980		0.9900
Trichloroethene	0.2818 0.2788	0.2559 0.2695	0.2749	0.2670	0.2825	Ave		0.2729			0.1500	3.5		20.0			
Methylcyclohexane	+++++ 0.3870	0.2788 0.4357	0.3872	0.3702	0.3992	Ave		0.3764			0.1000	14.0		20.0			
1,2-Dichloropropane	0.1984 0.2181	0.1841 0.2122	0.2140	0.2101	0.2235	Ave		0.2086			0.1000	6.4		20.0			
1,4-Dioxane	+++++ 0.0025	0.0021 0.0026	0.0026	0.0022	0.0028	Ave		0.0025				10.7		20.0			
Dibromomethane	0.1250 0.1340	0.1361 0.1285	0.1306	0.1289	0.1378	Ave		0.1316				3.5		20.0			
Bromodichloromethane	0.2580 0.2908	0.2694 0.2803	0.2760	0.2713	0.2929	Ave		0.2770			0.1500	4.4		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1378	0.0989 0.1389	0.1289	0.1256	0.1440	Ave		0.1290				12.6		20.0			
cis-1,3-Dichloropropene	0.2784 0.3700	0.3087 0.3601	0.3444	0.3414	0.3763	Ave		0.3399			0.1500	10.3		20.0			
4-Methyl-2-pentanone	+++++ 0.1440	0.1098 0.1530	0.1421	0.1345	0.1594	Ave		0.1404			0.0500	12.4		20.0			
Toluene	1.1351 1.3150	1.1636 1.3035	1.2726	1.2619	1.3268	Ave		1.2541			0.4000	6.0		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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								
trans-1,3-Dichloropropene	0.3164 0.4350	0.3325 0.4276	0.3934	0.3933	0.4384	Ave		0.3909			0.1000	12.6		20.0			
Ethyl methacrylate	+++++ 0.3165	0.2139 0.3254	0.2801	0.2912	0.3320	Ave		0.2932				14.9		20.0			
1,1,2-Trichloroethane	0.1902 0.2536	0.2320 0.2512	0.2457	0.2429	0.2602	Ave		0.2394			0.1000	9.8		20.0			
Tetrachloroethene	0.2550 0.3014	0.2639 0.2975	0.2761	0.2777	0.2985	Ave		0.2814			0.1500	6.5		20.0			
1,3-Dichloropropane	0.3205 0.4488	0.3791 0.4435	0.4273	0.4227	0.4594	Ave		0.4145				11.8		20.0			
2-Hexanone	+++++ 0.1261	0.0995 0.1358	0.1277	0.1193	0.1398	Ave		0.1247			0.0500	11.5		20.0			
Dibromochloromethane	0.2163 0.2991	0.2263 0.2949	0.2634	0.2693	0.2974	Ave		0.2667				12.8		20.0			
1,2-Dibromoethane	0.1998 0.2653	0.2105 0.2614	0.2519	0.2508	0.2731	Ave		0.2447				11.5		20.0			
Chlorobenzene	0.8285 0.8839	0.8297 0.8689	0.8631	0.8603	0.8857	Ave		0.8600			0.3000	2.7		20.0			
1,1,1,2-Tetrachloroethane	0.2131 0.3217	0.2432 0.3162	0.2878	0.2927	0.3179	Ave		0.2847				14.6		20.0			
Ethylbenzene	0.4234 0.4904	0.4369 0.4898	0.4717	0.4677	0.4923	Ave		0.4675				5.9		20.0			
m-Xylene & p-Xylene	0.5160 0.6081	0.5232 0.6001	0.5775	0.5819	0.6124	Ave		0.5742				6.9		20.0			
o-Xylene	0.4893 0.5895	0.5046 0.5671	0.5484	0.5608	0.5801	Ave		0.5485				6.9		20.0			
Styrene	0.7552 0.9871	0.7834 0.9658	0.9143	0.9325	0.9848	Ave		0.9033			0.3000	10.6		20.0			
Bromoform	+++++ 0.2009	0.1488 0.2030	0.1641	0.1713	0.2026	Ave		0.1818			0.1000	12.9		20.0			
Isopropylbenzene	1.2134 1.5091	1.2019 1.4875	1.4375	1.4522	1.5016	Ave		1.4004			0.1000	9.6		20.0			
1,1,2,2-Tetrachloroethane	0.4426 0.5078	0.4953 0.5189	0.5386	0.5154	0.5510	Ave		0.5099			0.3000	6.9		20.0			
Bromobenzene	0.6096 0.6743	0.6562 0.6684	0.6697	0.6634	0.6961	Ave		0.6625				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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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								
trans-1,4-Dichloro-2-butene	+++++ 0.1475	0.1253 0.1531	0.1508	0.1420	0.1566	Ave		0.1459				7.7		20.0			
1,2,3-Trichloropropane	0.1561 0.1774	0.1776 0.1819	0.1958	0.1798	0.1932	Ave		0.1803				7.2		20.0			
n-Propylbenzene	0.6132 0.7743	0.7088 0.7636	0.7846	0.7837	0.7970	Ave		0.7465				8.8		20.0			
2-Chlorotoluene	0.5429 0.6483	0.6014 0.6309	0.6689	0.6480	0.6652	Ave		0.6294				7.0		20.0			
1,3,5-Trimethylbenzene	1.6130 2.1318	1.8371 2.0970	2.1585	2.1234	2.1789	Ave		2.0200				10.6		20.0			
4-Chlorotoluene	0.5490 0.6702	0.6204 0.6545	0.6858	0.6754	0.6992	Ave		0.6506				7.9		20.0			
tert-Butylbenzene	1.5859 1.9134	1.7640 1.8932	1.9285	1.9144	1.9629	Ave		1.8518				7.2		20.0			
1,2,4-Trimethylbenzene	1.5750 2.1356	1.7246 2.0831	2.1337	2.1180	2.1609	Ave		1.9901				11.9		20.0			
sec-Butylbenzene	2.1202 2.7901	2.4857 2.7520	2.8239	2.7829	2.8586	Ave		2.6591				10.1		20.0			
1,3-Dichlorobenzene	1.2312 1.3012	1.2672 1.2554	1.2539	1.2588	1.3216	Ave		1.2699			0.6000	2.4		20.0			
p-Isopropyltoluene	1.7102 2.4835	2.0522 2.4489	2.4301	2.4445	2.5072	Ave		2.2966				13.1		20.0			
1,4-Dichlorobenzene	1.2723 1.2924	1.2688 1.2655	1.2913	1.2577	1.3209	Ave		1.2813			0.5000	1.7		20.0			
n-Butylbenzene	1.4986 2.0989	1.7422 2.0828	2.0752	2.0435	2.1322	Ave		1.9534				12.3		20.0			
1,2-Dichlorobenzene	1.0596 1.1963	1.2020 1.1629	1.1881	1.1743	1.2368	Ave		1.1743			0.4000	4.7		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1203	0.0922 0.1260	0.1182	0.1080	0.1301	Ave		0.1158			0.0500	11.9		20.0			
1,2,4-Trichlorobenzene	0.5767 0.7300	0.6067 0.7181	0.6566	0.6719	0.7296	Ave		0.6699			0.2000	9.1		20.0			
Hexachlorobutadiene	0.2694 0.3640	0.3392 0.3663	0.3312	0.3391	0.3729	Ave		0.3403				10.3		20.0			
Naphthalene	1.2126 1.5989	1.3344 1.6436	1.5323	1.4810	1.6951	Ave		1.4997				11.5		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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								
1,2,3-Trichlorobenzene	0.5312 0.6177	0.6018 0.6193	0.6026	0.5727	0.6527	Ave		0.5997				6.4		20.0			
Dibromofluoromethane (Surr)	0.2007 0.2242	0.2218 0.2164	0.2194	0.2146	0.2289	Ave		0.2180				4.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2375 0.2328	0.2484 0.2314	0.2386	0.2217	0.2415	Ave		0.2360				3.6		20.0			
Toluene-d8 (Surr)	0.9462 1.1282	1.0139 1.1330	1.0887	1.0746	1.1426	Ave		1.0753				6.7		20.0			
4-Bromofluorobenzene (Surr)	+++++ 0.3956	0.3765 0.3894	0.3880	0.3796	0.3997	Ave		0.3881				2.3		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-450378/15	UXM31028.D
Level 2	STD8260 240-450378/14	UXM31027.D
Level 3	STD8260 240-450378/13	UXM31026.D
Level 4	ICIS 240-450378/12	UXM31025.D
Level 5	STD8260 240-450378/11	UXM31024.D
Level 6	STD8260 240-450378/10	UXM31023.D
Level 7	STD8260 240-450378/9	UXM31022.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
Dichlorodifluoromethane	FB	Ave	4665 745131	9486 1096048	126306	227765	512634	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloromethane	FB	Ave	7957 871361	15405 1110343	149665	274711	590076	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl chloride	FB	Ave	7238 1012197	14226 1313554	168014	313862	679879	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Butadiene	FB	Ave	5881 914827	12580 1221080	147574	276064	601757	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromomethane	FB	Ave	5345 +++++	9499 +++++	95953	186631	420133	0.500 +++++	1.00 +++++	10.0	20.0	40.0
Chloroethane	FB	Ave	3482 548317	7624 840147	83551	158483	362824	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	8090 1137799	17183 1514080	182674	351184	763828	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	6163 1052482	13107 1459454	172726	318731	707684	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl ether	FB	Ave	3432 482766	5866 661598	77374	150301	336091	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acrolein	FB	Ave	+++++ 182892	2199 +++++	28530	54891	133174	+++++ 300	5.00 +++++	50.0	100	200
1,1-Dichloroethene	FB	Ave	4675 613475	7991 828592	97332	191182	412233	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2542 501383	6055 740610	83204	159259	344047	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acetone	FB	Ave	885 93482	1814 137949	16639	28725	68698	1.00 120	2.00 160	20.0	40.0	80.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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
Iodomethane	FB	Ave	7737 937946	15454 1121127	137997	280739	607259	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon disulfide	FB	Ave	14385 1937057	28986 2609436	313390	616385	1308981	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl acetate	FB	Ave	4573 723056	10468 1078188	124579	219369	532525	1.00 120	2.00 160	20.0	40.0	80.0
3-Chloro-1-propene	FB	Ave	5538 804942	12249 1061610	125526	248783	543714	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylene Chloride	FB	Ave	6017 671839	12177 893994	110800	209370	459897	0.500 60.0	1.00 80.0	10.0	20.0	40.0
tert-Butyl alcohol	FB	Ave	+++++ 452953	6282 684907	77688	135048	341990	+++++ 600	10.0 800	100	200	400
Acrylonitrile	FB	Ave	13809 2146830	31232 3114778	360846	664569	1561999	5.00 600	10.0 800	100	200	400
Methyl tert-butyl ether	FB	Ave	10014 1791186	21006 2469446	279149	542453	1247519	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	5014 717027	11126 957447	115378	224002	481658	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexane	FB	Ave	+++++ 812220	8335 +++++	137081	257886	583618	+++++ 60.0	1.00 +++++	10.0	20.0	40.0
Vinyl acetate	FB	Lin1	3731 948886	8968 1381139	128725	274666	663154	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	7550 1140699	16067 1502970	180676	351386	764973	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Butanone	FB	Lin1	+++++ 137692	1042 203878	22232	38988	98627	+++++ 120	2.00 160	20.0	40.0	80.0
cis-1,2-Dichloroethene	FB	Ave	5303 776002	11326 1034403	121706	243716	526609	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	6138 1006523	12827 1379044	152244	306107	673786	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromochloromethane	FB	Ave	2482 365325	5242 470910	60499	117007	249202	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrahydrofuran	FB	Ave	1478 278245	4187 419976	46517	85989	206722	1.00 120	2.00 160	20.0	40.0	80.0
Chloroform	FB	Ave	7880 1148977	17409 1520699	185173	363463	780869	0.500 60.0	1.00 80.0	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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
1,1,1-Trichloroethane	FB	Ave	6809 1049551	13769 1393442	167803	324837	704006	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Cyclohexane	FB	Ave	5166 995055	12004 1489074	161683	310680	675623	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	5681 958880	11408 1297043	148760	293279	638498	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	5873 946104	12330 1272263	146275	284754	631395	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Isobutyl alcohol	FB	Lin1	1480 341332	3530 525070	55676	100513	254808	12.5 1500	25.0 2000	250	500	1000
Benzene	FB	Ave	18845 2804292	36613 3771486	442100	868256	1901286	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	5565 835597	12009 1121069	134627	260130	574817	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Heptane	FB	Lin1	26707 449823	29555 +++++	100398	163268	333099	0.500 60.0	1.00 +++++	10.0	20.0	40.0
Trichloroethene	FB	Ave	5929 825111	10964 1095743	130574	255094	556593	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	+++++ 1145090	11948 1771032	183908	353700	786565	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	4173 645329	7887 862746	101634	200726	440298	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 147449	1762 208939	24666	42478	109037	+++++ 1200	20.0 1600	200	400	800
Dibromomethane	FB	Ave	2630 396385	5834 522492	62006	123177	271437	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromodichloromethane	FB	Ave	5428 860357	11545 1139283	131089	259213	577147	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 815405	8476 1129127	122410	239979	567444	+++++ 120	2.00 160	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	5856 1094811	13227 1463938	163597	326122	741413	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Methyl-2-pentanone	FB	Ave	+++++ 851990	9406 1244054	134958	256926	628003	+++++ 120	2.00 160	20.0	40.0	80.0
Toluene	CBNZ d5	Ave	19729	41109	479847	938059	2039743	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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
			3011770	4057355				60.0	80.0			
trans-1,3-Dichloropropene	CBNZ d5	Ave	5499 996267	11747 1330925	148347	292377	673884	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 724838	7556 1012874	105621	216473	510420	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3305 580728	8198 781869	92657	180594	400018	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	4432 690225	9324 925879	104096	206410	458925	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichloropropane	CBNZ d5	Ave	5570 1027994	13393 1380488	161106	314262	706289	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Hexanone	CBNZ d5	Ave	+++++ 577473	7030 845199	96295	177407	429724	+++++ 120	2.00 160	20.0	40.0	80.0
Dibromochloromethane	CBNZ d5	Ave	3760 685086	7995 917799	99325	200173	457254	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromoethane	CBNZ d5	Ave	3472 607659	7438 813685	94969	186444	419853	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chlorobenzene	CBNZ d5	Ave	14399 2024322	29312 2704599	325429	639571	1361605	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3704 736691	8594 984172	108530	217609	488684	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethylbenzene	CBNZ d5	Ave	7359 1123177	15435 1524597	177845	347713	756865	0.500 60.0	1.00 80.0	10.0	20.0	40.0
m-Xylene & p-Xylene	CBNZ d5	Ave	8968	18486	217767	432592	941488	0.500	1.00	10.0	20.0	40.0

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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
			1392681	1868000				60.0	80.0			
o-Xylene	CBNZ d5	Ave	8505 1350111	17828 1765045	206785	416898	891801	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Styrene	CBNZ d5	Ave	13125 2260683	27678 3006004	344743	693212	1513984	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromoform	CBNZ d5	Ave	+++++ 460205	5256 631827	61865	127319	311415	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Isopropylbenzene	CBNZ d5	Ave	21090 3456206	42462 4629878	542009	1079601	2308401	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4265 678721	9414 937618	110519	212748	478558	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromobenzene	DCBd 4	Ave	5874 901413	12472 1207707	137415	273875	604593	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 197195	2381 276670	30947	58600	136003	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichloropropane	DCBd 4	Ave	1504 237185	3375 328647	40174	74238	167810	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Propylbenzene	DCBd 4	Ave	5909 1035010	13473 1379627	160990	323520	692257	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chlorotoluene	DCBd 4	Ave	5232 866639	11432 1139934	137252	267505	577725	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	15543 2849609	34919 3788867	442911	876543	1892509	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Chlorotoluene	DCBd 4	Ave	5290	11792	140726	278802	607272	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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
			895912	1182465				60.0	80.0			
tert-Butylbenzene	DCBd 4	Ave	15282 2557650	33529 3420590	395706	790282	1704932	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	15177 2854633	32781 3763780	437820	874333	1876870	0.500 60.0	1.00 80.0	10.0	20.0	40.0
sec-Butylbenzene	DCBd 4	Ave	20431 3729613	47246 4972313	579450	1148815	2482909	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichlorobenzene	DCBd 4	Ave	11864 1739274	24087 2268220	257296	519642	1147861	0.500 60.0	1.00 80.0	10.0	20.0	40.0
p-Isopropyltoluene	DCBd 4	Ave	16480 3319699	39007 4424579	498636	1009090	2177630	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dichlorobenzene	DCBd 4	Ave	12260 1727570	24117 2286401	264974	519200	1147309	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Butylbenzene	DCBd 4	Ave	14441 2805692	33115 3763123	425819	843589	1851941	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichlorobenzene	DCBd 4	Ave	10211 1599122	22847 2101050	243791	484748	1074224	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 160845	1752 227651	24251	44593	112988	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	5557 975744	11531 1297390	134730	277363	633734	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexachlorobutadiene	DCBd 4	Ave	2596 486539	6447 661758	67962	139998	323865	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Naphthalene	DCBd 4	Ave	11685	25363	314418	611384	1472308	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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
			2137279	2969700				60.0	80.0			
1,2,3-Trichlorobenzene	DCBd 4	Ave	5119 825636	11438 1119006	123648	236399	566895	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	4221 663483	9504 879528	104187	205047	451079	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	4996 688950	10645 940507	113309	211750	475834	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Toluene-d8 (Surr)	CBNZ d5	Ave	16446 2583965	35823 3526711	410525	798835	1756542	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	+++++ 905980	13303 1211964	146317	282170	614486	+++++ 60.0	1.00 80.0	10.0	20.0	40.0

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-450378/15	UXM31028.D
Level 2	STD8260 240-450378/14	UXM31027.D
Level 3	STD8260 240-450378/13	UXM31026.D
Level 4	ICIS 240-450378/12	UXM31025.D
Level 5	STD8260 240-450378/11	UXM31024.D
Level 6	STD8260 240-450378/10	UXM31023.D
Level 7	STD8260 240-450378/9	UXM31022.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Vinyl acetate	21.6						50					
2-Butanone	+++++	7.4						50				
Isobutyl alcohol	14.7						50					
n-Heptane	5.5 +++++						50					

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-450378/24	UXM31037.D
Level 2	STDA9 240-450378/23	UXM31036.D
Level 3	STDA9 240-450378/22	UXM31035.D
Level 4	STDA9 240-450378/21	UXM31034.D
Level 5	STDA9 240-450378/20	UXM31033.D
Level 6	STDA9 240-450378/19	UXM31032.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								
Acetonitrile	0.0260 0.0224	0.0265	0.0246	0.0232	0.0222	Ave		0.0241				7.6		20.0			
Diisopropyl ether	0.1490 0.1993	0.1554	0.1862	0.1892	0.1889	Ave		0.1780				11.6		20.0			
2-Chloro-1,3-butadiene	0.2405 0.3168	0.2679	0.3121	0.3084	0.2984	Ave		0.2907				10.4		20.0			
Ethyl-t-butyl ether (ETBE)	0.4301 0.5902	0.4583	0.5407	0.5581	0.5559	Ave		0.5222				12.1		20.0			
Ethyl acetate	0.1072 0.1611	0.1236	0.1437	0.1500	0.1519	Ave		0.1396				14.5		20.0			
Propionitrile	0.0225 0.0284	0.0267	0.0286	0.0288	0.0278	Ave		0.0271				8.8		20.0			
Methacrylonitrile	0.0866 0.1124	0.0889	0.1062	0.1066	0.1055	Ave		0.1010				10.5		20.0			
Isooctane	0.4089 0.6831	0.4887	0.6101	0.6519	0.6238	Ave		0.5777				18.4		20.0			
Tert-amyl-methyl ether (TAME)	0.4509 0.5900	0.4262	0.5222	0.5457	0.5544	Ave		0.5149				12.3		20.0			
n-Butanol	+++++ 0.0048	0.0022	0.0037	0.0040	0.0043	Lin1	-0.0083	0.0046				14.6			0.9950		0.9900
Ethyl acrylate	0.1416 0.2306	0.1557	0.1891	0.2034	0.2108	Ave		0.1885				18.0		20.0			
Methyl methacrylate	0.0993 0.1473	0.1016	0.1253	0.1336	0.1370	Ave		0.1240				15.8		20.0			
2-Nitropropane	0.0294 0.0489	0.0320	0.0398	0.0423	0.0453	Ave		0.0396				19.1		20.0			
n-Butyl acetate	0.1765 0.2279	0.1621	0.1977	0.2074	0.2149	Ave		0.1978				12.4		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

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-Chlorohexane	0.3742 0.4594	0.3719	0.4186	0.4403	0.4340	Ave		0.4164				8.7		20.0			
Cyclohexanone	+++++ 0.0135	0.0080	0.0111	0.0118	0.0127	Ave		0.0114				18.6		20.0			
Pentachloroethane	0.0999 0.1408	0.0697	0.0710	0.0986	0.1164	Ave		0.0994				27.4	*	20.0			
1,2,3-Trimethylbenzene	1.6603 2.1922	1.6949	2.0277	2.0909	2.0909	Ave		1.9595				11.5		20.0			
Benzyl chloride	+++++ 0.2519	0.1562	0.1929	0.2145	0.2326	Ave		0.2096				17.6		20.0			
1,3,5-Trichlorobenzene	0.6940 0.9027	0.7767	0.8661	0.8680	0.8608	Ave		0.8280				9.4		20.0			
2-Methylnaphthalene	0.4414 0.7171	0.5265	0.5761	0.6401	0.6755	Ave		0.5961				17.1		20.0			
1-Methylnaphthalene	0.3719 0.6339	0.4611	0.5537	0.5969	0.6095	Ave		0.5378				18.9		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-450378/24	UXM31037.D
Level 2	STDA9 240-450378/23	UXM31036.D
Level 3	STDA9 240-450378/22	UXM31035.D
Level 4	STDA9 240-450378/21	UXM31034.D
Level 5	STDA9 240-450378/20	UXM31033.D
Level 6	STDA9 240-450378/19	UXM31032.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	5457 896718	11301	108754	215625	442777	5.00 800	10.0	100	200	400
Diisopropyl ether	FB	Ave	3133 798576	6625	82477	175721	376478	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	5057 1269422	11420	138254	286358	594715	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	9044 2364815	19533	239506	518262	1107852	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl acetate	FB	Ave	4509 1290936	10536	127343	278537	605390	1.00 160	2.00	20.0	40.0	80.0
Propionitrile	FB	Ave	4727 1139003	11381	126888	267016	553096	5.00 800	10.0	100	200	400
Methacrylonitrile	FB	Ave	18208 4504926	37890	470374	989714	2101907	5.00 800	10.0	100	200	400
Isooctane	FB	Ave	8598 2737094	20830	270247	605373	1243289	0.500 80.0	1.00	10.0	20.0	40.0
Tert-amyl-methyl ether (TAME)	FB	Ave	9481 2364034	18165	231324	506726	1104984	0.500 80.0	1.00	10.0	20.0	40.0
n-Butanol	FB	Lin1	+++++ 480104	2295	41072	93035	214983	+++++ 2000	25.0	250	500	1000
Ethyl acrylate	FB	Ave	2978 923794	6636	83776	188923	420020	0.500 80.0	1.00	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	4174 1180481	8663	110975	248049	546060	1.00 160	2.00	20.0	40.0	80.0
2-Nitropropane	FB	Ave	1238 391604	2732	35233	78628	180588	1.00 160	2.00	20.0	40.0	80.0
n-Butyl acetate	FB	Ave	3712	6910	87580	192617	428298	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			913202					80.0				
1-Chlorohexane	CBNZ d5	Ave	6381 1455198	12907	151095	328318	678828	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexanone	DCBd 4	Ave	+++++ 229096	1498	21341	46930	105799	+++++ 800	10.0	100	200	400
Pentachloroethane	CBNZ d5	Ave	3408 892044	4835	51259	147100	364165	1.00 160	2.00	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	15560 3712698	31838	389395	828541	1747967	0.500 80.0	1.00	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Ave	+++++ 426558	2934	37047	85003	194435	+++++ 80.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	6504 1528824	14589	166326	343938	719649	0.500 80.0	1.00	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	8273 2428941	19778	221271	507266	1129364	1.00 160	2.00	20.0	40.0	80.0
1-Methylnaphthalene	DCBd 4	Ave	6971 2147009	17322	212650	473084	1019067	1.00 160	2.00	20.0	40.0	80.0

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-450378/24	UXM31037.D
Level 2	STDA9 240-450378/23	UXM31036.D
Level 3	STDA9 240-450378/22	UXM31035.D
Level 4	STDA9 240-450378/21	UXM31034.D
Level 5	STDA9 240-450378/20	UXM31033.D
Level 6	STDA9 240-450378/19	UXM31032.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
n-Butanol	+++++	19.3						50				

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-450378/16 Calibration Date: 09/08/2020 15:15

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31029.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2470	0.2726	0.1000	0.0221	0.0200	10.4	30.0
Chloromethane	Ave	0.3154	0.3025	0.1000	0.0192	0.0200	-4.1	30.0
Vinyl chloride	Ave	0.3384	0.3433	0.1000	0.0203	0.0200	1.5	30.0
Butadiene	Ave	0.2983	0.3191		0.0214	0.0200	7.0	30.0
Bromomethane	Ave	0.2173	0.1999	0.0500	0.0184	0.0200	-8.0	30.0
Chloroethane	Ave	0.1802	0.1765	0.0500	0.0196	0.0200	-2.1	30.0
Dichlorofluoromethane	Ave	0.3832	0.4058		0.0212	0.0200	5.9	30.0
Trichlorofluoromethane	Ave	0.3386	0.3733	0.1000	0.0221	0.0200	10.3	30.0
Ethyl ether	Ave	0.1595	0.1514		0.0190	0.0200	-5.1	30.0
Acrolein	Ave	0.0119	0.0069		0.0579	0.100	-42.1*	30.0
1,1-Dichloroethene	Ave	0.2049	0.1999	0.1000	0.0195	0.0200	-2.4	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1615	0.1762	0.0500	0.0218	0.0200	9.1	30.0
Acetone	Ave	0.0178	0.0142	0.0100	0.0319	0.0400	-20.2	50.0
Iodomethane	Ave	0.3163	0.2718		0.0172	0.0200	-14.0	30.0
Carbon disulfide	Ave	0.6609	0.6132	0.1000	0.0186	0.0200	-7.2	30.0
Methyl acetate	Ave	0.1238	0.1097	0.1000	0.0354	0.0400	-11.4	50.0
3-Chloro-1-propene	Ave	0.2690	0.2515		0.0187	0.0200	-6.5	30.0
Methylene Chloride	Ave	0.2433	0.2261	0.1000	0.0186	0.0200	-7.1	50.0
tert-Butyl alcohol	Ave	0.0158	0.0130		0.165	0.200	-17.3	30.0
Acrylonitrile	Ave	0.0732	0.0657		0.179	0.200	-10.3	30.0
Methyl tert-butyl ether	Ave	0.5668	0.5340	0.1000	0.0188	0.0200	-5.8	30.0
trans-1,2-Dichloroethene	Ave	0.2425	0.2345	0.1000	0.0193	0.0200	-3.3	30.0
Hexane	Ave	0.2648	0.3109		0.0235	0.0200	17.4	30.0
Vinyl acetate	Lin1		0.2549		0.0159	0.0200	-20.7	30.0
1,1-Dichloroethane	Ave	0.3751	0.3549	0.2000	0.0189	0.0200	-5.4	30.0
2-Butanone	Lin1		0.0194	0.0100	0.0330	0.0400	-17.6	50.0
cis-1,2-Dichloroethene	Ave	0.2588	0.2532	0.1000	0.0196	0.0200	-2.2	30.0
2,2-Dichloropropane	Ave	0.3219	0.3218		0.0200	0.0200	-0.0	30.0
Bromochloromethane	Ave	0.1223	0.1142		0.0187	0.0200	-6.6	30.0
Tetrahydrofuran	Ave	0.0470	0.0414		0.0352	0.0400	-11.9	30.0
Chloroform	Ave	0.3871	0.3673	0.2000	0.0190	0.0200	-5.1	30.0
1,1,1-Trichloroethane	Ave	0.3419	0.3362	0.1000	0.0197	0.0200	-1.6	30.0
Cyclohexane	Ave	0.3195	0.3491	0.1000	0.0218	0.0200	9.2	30.0
1,1-Dichloropropene	Ave	0.3034	0.2966		0.0196	0.0200	-2.2	30.0
Carbon tetrachloride	Ave	0.3037	0.2977	0.1000	0.0196	0.0200	-2.0	30.0
Isobutyl alcohol	Lin1		0.0040		0.408	0.500	-18.4	30.0
Benzene	Ave	0.9186	0.8855	0.5000	0.0193	0.0200	-3.6	30.0
1,2-Dichloroethane	Ave	0.2786	0.2608	0.1000	0.0187	0.0200	-6.4	30.0
n-Heptane	Lin1		0.1946		0.0226	0.0200	13.0	30.0
Trichloroethene	Ave	0.2729	0.2620	0.1500	0.0192	0.0200	-4.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-450378/16 Calibration Date: 09/08/2020 15:15

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31029.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3764	0.4060	0.1000	0.0216	0.0200	7.9	30.0
1,2-Dichloropropane	Ave	0.2086	0.2029	0.1000	0.0195	0.0200	-2.7	30.0
1,4-Dioxane	Ave	0.0025	0.0022		0.357	0.400	-10.7	50.0
Dibromomethane	Ave	0.1316	0.1223		0.0186	0.0200	-7.0	30.0
Bromodichloromethane	Ave	0.2770	0.2745	0.1500	0.0198	0.0200	-0.9	30.0
2-Chloroethyl vinyl ether	Ave	0.1290	0.1146		0.0178	0.0200	-11.2	30.0
cis-1,3-Dichloropropene	Ave	0.3399	0.3342	0.1500	0.0197	0.0200	-1.7	50.0
4-Methyl-2-pentanone	Ave	0.1404	0.1278	0.0500	0.0364	0.0400	-9.0	50.0
Toluene	Ave	1.254	1.218	0.4000	0.0194	0.0200	-2.9	30.0
trans-1,3-Dichloropropene	Ave	0.3909	0.3512	0.1000	0.0180	0.0200	-10.2	30.0
Ethyl methacrylate	Ave	0.2932	0.2722		0.0186	0.0200	-7.2	30.0
1,1,2-Trichloroethane	Ave	0.2394	0.2289	0.1000	0.0191	0.0200	-4.4	30.0
Tetrachloroethene	Ave	0.2814	0.2708	0.1500	0.0192	0.0200	-3.8	30.0
1,3-Dichloropropane	Ave	0.4145	0.3957		0.0191	0.0200	-4.5	30.0
2-Hexanone	Ave	0.1247	0.1078	0.0500	0.0346	0.0400	-13.6	50.0
Dibromochloromethane	Ave	0.2667	0.2578		0.0193	0.0200	-3.3	30.0
1,2-Dibromoethane	Ave	0.2447	0.2341		0.0191	0.0200	-4.3	30.0
Chlorobenzene	Ave	0.8600	0.8278	0.3000	0.0193	0.0200	-3.7	30.0
1,1,1,2-Tetrachloroethane	Ave	0.2847	0.2770		0.0195	0.0200	-2.7	30.0
Ethylbenzene	Ave	0.4675	0.4578		0.0196	0.0200	-2.1	30.0
m-Xylene & p-Xylene	Ave	0.5742	0.5611		0.0195	0.0200	-2.3	30.0
o-Xylene	Ave	0.5485	0.5397		0.0197	0.0200	-1.6	30.0
Styrene	Ave	0.9033	0.9110	0.3000	0.0202	0.0200	0.9	30.0
Bromoform	Ave	0.1818	0.1599	0.1000	0.0176	0.0200	-12.0	30.0
Isopropylbenzene	Ave	1.400	1.423	0.1000	0.0203	0.0200	1.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5099	0.4850	0.3000	0.0190	0.0200	-4.9	30.0
Bromobenzene	Ave	0.6625	0.6290		0.0190	0.0200	-5.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1459	0.1374		0.0188	0.0200	-5.8	30.0
1,2,3-Trichloropropane	Ave	0.1803	0.1687		0.0187	0.0200	-6.4	30.0
n-Propylbenzene	Ave	0.7465	0.7443		0.0199	0.0200	-0.3	30.0
2-Chlorotoluene	Ave	0.6294	0.6260		0.0199	0.0200	-0.5	30.0
1,3,5-Trimethylbenzene	Ave	2.020	2.084		0.0206	0.0200	3.2	30.0
4-Chlorotoluene	Ave	0.6506	0.6585		0.0202	0.0200	1.2	30.0
tert-Butylbenzene	Ave	1.852	1.855		0.0200	0.0200	0.2	30.0
1,2,4-Trimethylbenzene	Ave	1.990	2.075		0.0209	0.0200	4.3	30.0
sec-Butylbenzene	Ave	2.659	2.745		0.0206	0.0200	3.2	30.0
1,3-Dichlorobenzene	Ave	1.270	1.219	0.6000	0.0192	0.0200	-4.0	30.0
p-Isopropyltoluene	Ave	2.297	2.390		0.0208	0.0200	4.1	30.0
1,4-Dichlorobenzene	Ave	1.281	1.227	0.5000	0.0192	0.0200	-4.2	30.0
n-Butylbenzene	Ave	1.953	2.025		0.0207	0.0200	3.7	30.0
1,2-Dichlorobenzene	Ave	1.174	1.092	0.4000	0.0186	0.0200	-7.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-450378/16 Calibration Date: 09/08/2020 15:15

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31029.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1158	0.1072	0.0500	0.0185	0.0200	-7.4	50.0
1,2,4-Trichlorobenzene	Ave	0.6699	0.6161	0.2000	0.0184	0.0200	-8.0	50.0
Hexachlorobutadiene	Ave	0.3403	0.3373		0.0198	0.0200	-0.9	50.0
Naphthalene	Ave	1.500	1.390		0.0185	0.0200	-7.3	50.0
1,2,3-Trichlorobenzene	Ave	0.5997	0.5563		0.0186	0.0200	-7.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2180	0.2550		0.0234	0.0200	17.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2595		0.0220	0.0200	10.0	30.0
Toluene-d8 (Surr)	Ave	1.075	1.286		0.0239	0.0200	19.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.5080		0.0262	0.0200	30.9*	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-450378/25 Calibration Date: 09/08/2020 18:58

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31038.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2180	0.2608		0.0239	0.0200	19.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2720		0.0231	0.0200	15.3	30.0
Toluene-d8 (Surr)	Ave	1.075	1.266		0.0235	0.0200	17.7	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.4944		0.0255	0.0200	27.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-450378/25 Calibration Date: 09/08/2020 18:58

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 16:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 18:33

Lab File ID: UXM31038.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0241	0.0228		0.189	0.200	-5.7	30.0
Diisopropyl ether	Ave	0.1780	0.1823		0.0205	0.0200	2.4	30.0
2-Chloro-1,3-butadiene	Ave	0.2907	0.2848		0.0196	0.0200	-2.0	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5222	0.5265		0.0202	0.0200	0.8	30.0
Ethyl acetate	Ave	0.1396	0.1436		0.0412	0.0400	2.9	30.0
Propionitrile	Ave	0.0271	0.0280		0.207	0.200	3.3	30.0
Methacrylonitrile	Ave	0.1010	0.1023		0.202	0.200	1.2	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.5149	0.5378		0.0209	0.0200	4.4	30.0
n-Butanol	Lin1		0.0038		0.431	0.500	-13.8	30.0
Ethyl acrylate	Ave	0.1885	0.1983		0.0210	0.0200	5.2	30.0
Methyl methacrylate	Ave	0.1240	0.1315		0.0424	0.0400	6.0	30.0
2-Nitropropane	Ave	0.0396	0.0398		0.0401	0.0400	0.3	30.0
n-Butyl acetate	Ave	0.1978	0.1984		0.0201	0.0200	0.3	30.0
1-Chlorohexane	Ave	0.4164	0.4024		0.0193	0.0200	-3.4	30.0
Cyclohexanone	Ave	0.0114	0.0122		0.213	0.200	6.4	30.0
Pentachloroethane	Ave	0.0994	0.0825		0.0332	0.0400	-17.0	30.0
1,2,3-Trimethylbenzene	Ave	1.959	2.063		0.0211	0.0200	5.3	30.0
Benzyl chloride	Ave	0.2096	0.1743		0.0166	0.0200	-16.8	30.0
1,3,5-Trichlorobenzene	Ave	0.8280	0.8225		0.0199	0.0200	-0.7	30.0
2-Methylnaphthalene	Ave	0.5961	0.5556		0.0373	0.0400	-6.8	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: BFB6644.D BFB Injection Date: 03/11/2021

Instrument ID: A3UX16 BFB Injection Time: 08:44

Analysis Batch No.: 476369

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	46.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	83.6	
175	5.0 - 9.0 % of mass 174	6.2	(7.4) 1
176	95.0 - 101.0 % of mass 174	79.6	(95.1) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-476369/3	UXM35608.D	03/11/2021	9:08
	CCV 240-476369/4	UXM35609.D	03/11/2021	9:32
	LCS 240-476369/5	UXM35610.D	03/11/2021	9:57
	MB 240-476369/8	UXM35613.D	03/11/2021	11:11
	LCSD 240-476369/10	UXM35615.D	03/11/2021	12:00
MSA-SW37A-030821	240-145599-1	UXM35616.D	03/11/2021	12:25
MSA-SW37B-030821	240-145599-2	UXM35617.D	03/11/2021	12:49
MSA-SW37C-030821	240-145599-3	UXM35618.D	03/11/2021	13:24
MSA-SW37D-030821	240-145599-4	UXM35619.D	03/11/2021	13:48
MSA-SW38A-030821	240-145599-5	UXM35620.D	03/11/2021	14:13
MSA-SW38B-030821	240-145599-6	UXM35621.D	03/11/2021	14:37
MSA-SW38C-030821	240-145599-7	UXM35622.D	03/11/2021	15:02
MSA-SW38D-030821	240-145599-8	UXM35623.D	03/11/2021	15:27
MSA-SW40A-030821	240-145599-9	UXM35624.D	03/11/2021	15:51
MSA-SW40B-030821	240-145599-10	UXM35625.D	03/11/2021	16:16
MSA-SW40C-030821	240-145599-11	UXM35626.D	03/11/2021	16:41
MSA-SW40D-030821	240-145599-12	UXM35627.D	03/11/2021	17:05
MSA-SW41A-030821	240-145599-13	UXM35628.D	03/11/2021	17:30
MSA-SW41B-030821	240-145599-14	UXM35629.D	03/11/2021	17:54
MSA-SW41C-030821	240-145599-15	UXM35630.D	03/11/2021	18:19
MSA-SW41D-030821	240-145599-16	UXM35631.D	03/11/2021	18:43

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476369/3 Calibration Date: 03/11/2021 09:08

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM35608.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2470	0.2853	0.1000	0.0231	0.0200	15.5	20.0
Chloromethane	Ave	0.3154	0.3434	0.1000	0.0218	0.0200	8.9	20.0
Vinyl chloride	Ave	0.3384	0.3925	0.1000	0.0232	0.0200	16.0	20.0
Butadiene	Ave	0.2983	0.3476		0.0233	0.0200	16.5	20.0
Bromomethane	Ave	0.2173	0.1671	0.0500	0.0154	0.0200	-23.1*	20.0
Chloroethane	Ave	0.1802	0.1767	0.0500	0.0196	0.0200	-1.9	20.0
Dichlorofluoromethane	Ave	0.3832	0.4031		0.0210	0.0200	5.2	20.0
Trichlorofluoromethane	Ave	0.3386	0.3887	0.1000	0.0230	0.0200	14.8	20.0
Ethyl ether	Ave	0.1595	0.1572		0.0197	0.0200	-1.4	20.0
Acrolein	Ave	0.0119	0.0109		0.0918	0.100	-8.2	20.0
1,1-Dichloroethene	Ave	0.2049	0.2231	0.1000	0.0218	0.0200	8.9	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1615	0.2014	0.0500	0.0249	0.0200	24.7*	20.0
Acetone	Ave	0.0178	0.0149	0.0100	0.0335	0.0400	-16.3	50.0
Iodomethane	Ave	0.3163	0.2370		0.0150	0.0200	-25.1*	20.0
Carbon disulfide	Ave	0.6609	0.7080	0.1000	0.0214	0.0200	7.1	20.0
Methyl acetate	Ave	0.1238	0.1073	0.1000	0.0347	0.0400	-13.4	50.0
3-Chloro-1-propene	Ave	0.2690	0.3074		0.0229	0.0200	14.3	20.0
Methylene Chloride	Ave	0.2433	0.2575	0.1000	0.0212	0.0200	5.9	50.0
tert-Butyl alcohol	Ave	0.0158	0.0113		0.144	0.200	-28.2*	20.0
Acrylonitrile	Ave	0.0732	0.0699		0.191	0.200	-4.6	20.0
Methyl tert-butyl ether	Ave	0.5668	0.5100	0.1000	0.0180	0.0200	-10.0	20.0
trans-1,2-Dichloroethene	Ave	0.2425	0.2607	0.1000	0.0215	0.0200	7.5	20.0
Hexane	Ave	0.2648	0.3372		0.0255	0.0200	27.4*	20.0
Vinyl acetate	Lin1		0.2787		0.0173	0.0200	-13.4	20.0
1,1-Dichloroethane	Ave	0.3751	0.4196	0.2000	0.0224	0.0200	11.9	20.0
2-Butanone	Lin1		0.0179	0.0100	0.0305	0.0400	-23.8	50.0
2,2-Dichloropropane	Ave	0.3219	0.3596		0.0223	0.0200	11.7	20.0
cis-1,2-Dichloroethene	Ave	0.2588	0.2848	0.1000	0.0220	0.0200	10.0	20.0
Bromochloromethane	Ave	0.1223	0.1371		0.0224	0.0200	12.1	20.0
Tetrahydrofuran	Ave	0.0470	0.0397		0.0338	0.0400	-15.6	20.0
Chloroform	Ave	0.3871	0.4290	0.2000	0.0222	0.0200	10.8	20.0
1,1,1-Trichloroethane	Ave	0.3419	0.3718	0.1000	0.0218	0.0200	8.8	20.0
Cyclohexane	Ave	0.3195	0.4058	0.1000	0.0254	0.0200	27.0*	20.0
1,1-Dichloropropene	Ave	0.3034	0.3273		0.0216	0.0200	7.9	20.0
Carbon tetrachloride	Ave	0.3037	0.3320	0.1000	0.0219	0.0200	9.3	20.0
Isobutyl alcohol	Lin1		0.0032		0.330	0.500	-34.0*	20.0
Benzene	Ave	0.9186	0.9815	0.5000	0.0214	0.0200	6.8	20.0
1,2-Dichloroethane	Ave	0.2786	0.2951	0.1000	0.0212	0.0200	5.9	20.0
n-Heptane	Lin1		0.1987		0.0232	0.0200	15.8	20.0
Trichloroethene	Ave	0.2729	0.2756	0.1500	0.0202	0.0200	1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476369/3 Calibration Date: 03/11/2021 09:08

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM35608.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3764	0.4304	0.1000	0.0229	0.0200	14.4	20.0
1,2-Dichloropropane	Ave	0.2086	0.2212	0.1000	0.0212	0.0200	6.0	20.0
1,4-Dioxane	Ave	0.0025	0.0020		0.335	0.400	-16.4	50.0
Dibromomethane	Ave	0.1316	0.1347		0.0205	0.0200	2.4	20.0
Bromodichloromethane	Ave	0.2770	0.2890	0.1500	0.0209	0.0200	4.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1290	0.1039		0.0322	0.0400	-19.5	20.0
cis-1,3-Dichloropropene	Ave	0.3399	0.3327	0.1500	0.0196	0.0200	-2.1	50.0
4-Methyl-2-pentanone	Ave	0.1404	0.1093	0.0500	0.0311	0.0400	-22.2	50.0
Toluene	Ave	1.254	1.346	0.4000	0.0215	0.0200	7.4	20.0
trans-1,3-Dichloropropene	Ave	0.3909	0.3687	0.1000	0.0189	0.0200	-5.7	20.0
Ethyl methacrylate	Ave	0.2932	0.2400		0.0164	0.0200	-18.2	20.0
1,1,2-Trichloroethane	Ave	0.2394	0.2344	0.1000	0.0196	0.0200	-2.1	20.0
Tetrachloroethene	Ave	0.2814	0.2946	0.1500	0.0209	0.0200	4.7	20.0
1,3-Dichloropropane	Ave	0.4145	0.4096		0.0198	0.0200	-1.2	20.0
2-Hexanone	Ave	0.1247	0.0964	0.0500	0.0309	0.0400	-22.7	50.0
Dibromochloromethane	Ave	0.2667	0.2593		0.0194	0.0200	-2.8	20.0
1,2-Dibromoethane	Ave	0.2447	0.2364		0.0193	0.0200	-3.4	20.0
Chlorobenzene	Ave	0.8600	0.8949	0.3000	0.0208	0.0200	4.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2847	0.2797		0.0197	0.0200	-1.7	20.0
Ethylbenzene	Ave	0.4675	0.4981		0.0213	0.0200	6.5	20.0
m-Xylene & p-Xylene	Ave	0.5742	0.6246		0.0218	0.0200	8.8	20.0
o-Xylene	Ave	0.5485	0.5732		0.0209	0.0200	4.5	20.0
Styrene	Ave	0.9033	0.8634	0.3000	0.0191	0.0200	-4.4	20.0
Bromoform	Ave	0.1818	0.1483	0.1000	0.0163	0.0200	-18.4	20.0
Isopropylbenzene	Ave	1.400	1.522	0.1000	0.0217	0.0200	8.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5099	0.4265	0.3000	0.0167	0.0200	-16.4	20.0
Bromobenzene	Ave	0.6625	0.6716		0.0203	0.0200	1.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1459	0.1063		0.0146	0.0200	-27.1*	20.0
1,2,3-Trichloropropane	Ave	0.1803	0.1558		0.0173	0.0200	-13.6	20.0
n-Propylbenzene	Ave	0.7465	0.8212		0.0220	0.0200	10.0	20.0
2-Chlorotoluene	Ave	0.6294	0.6744		0.0214	0.0200	7.2	20.0
1,3,5-Trimethylbenzene	Ave	2.020	2.097		0.0208	0.0200	3.8	20.0
4-Chlorotoluene	Ave	0.6506	0.6964		0.0214	0.0200	7.0	20.0
tert-Butylbenzene	Ave	1.852	1.997		0.0216	0.0200	7.9	20.0
1,2,4-Trimethylbenzene	Ave	1.990	2.081		0.0209	0.0200	4.6	20.0
sec-Butylbenzene	Ave	2.659	2.933		0.0221	0.0200	10.3	20.0
1,3-Dichlorobenzene	Ave	1.270	1.313	0.6000	0.0207	0.0200	3.4	20.0
p-Isopropyltoluene	Ave	2.297	2.510		0.0219	0.0200	9.3	20.0
1,4-Dichlorobenzene	Ave	1.281	1.332	0.5000	0.0208	0.0200	3.9	20.0
n-Butylbenzene	Ave	1.953	2.114		0.0216	0.0200	8.2	20.0
1,2-Dichlorobenzene	Ave	1.174	1.183	0.4000	0.0201	0.0200	0.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476369/3 Calibration Date: 03/11/2021 09:08

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM35608.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1158	0.0930	0.0500	0.0161	0.0200	-19.7	50.0
1,2,4-Trichlorobenzene	Ave	0.6699	0.6007	0.2000	0.0179	0.0200	-10.3	50.0
Hexachlorobutadiene	Ave	0.3403	0.3143		0.0185	0.0200	-7.6	50.0
Naphthalene	Ave	1.500	1.335		0.0178	0.0200	-11.0	50.0
1,2,3-Trichlorobenzene	Ave	0.5997	0.5358		0.0179	0.0200	-10.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2180	0.2048		0.0234	0.0249	-6.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2120		0.0224	0.0249	-10.2	20.0
Toluene-d8 (Surr)	Ave	1.075	0.9752		0.0226	0.0249	-9.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.4055		0.0260	0.0249	4.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCV 240-476369/4 Calibration Date: 03/11/2021 09:32

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 16:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 18:33

Lab File ID: UXM35609.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0241	0.0266		0.220	0.200	10.2	20.0
Diisopropyl ether	Ave	0.1780	0.1739		0.0195	0.0200	-2.3	20.0
2-Chloro-1,3-butadiene	Ave	0.2907	0.3109		0.0214	0.0200	7.0	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5222	0.4939		0.0189	0.0200	-5.4	20.0
Ethyl acetate	Ave	0.1396	0.1213		0.0348	0.0400	-13.1	20.0
Propionitrile	Ave	0.0271	0.0264		0.195	0.200	-2.6	20.0
Methacrylonitrile	Ave	0.1010	0.0939		0.186	0.200	-7.0	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.5149	0.4572		0.0178	0.0200	-11.2	20.0
n-Butanol	Lin1		0.0027		0.310	0.500	-38.1*	20.0
Ethyl acrylate	Ave	0.1885	0.1679		0.0178	0.0200	-11.0	20.0
Methyl methacrylate	Ave	0.1240	0.1218		0.0393	0.0400	-1.8	20.0
2-Nitropropane	Ave	0.0396	0.0333		0.0336	0.0400	-15.9	20.0
n-Butyl acetate	Ave	0.1978	0.1768		0.0179	0.0200	-10.6	20.0
1-Chlorohexane	Ave	0.4164	0.4346		0.0209	0.0200	4.4	20.0
Cyclohexanone	Ave	0.0114	0.0113		0.197	0.200	-1.5	20.0
Pentachloroethane	Ave	0.0994	0.1666		0.0670	0.0400	67.6*	20.0
1,2,3-Trimethylbenzene	Ave	1.959	1.937		0.0198	0.0200	-1.1	20.0
Benzyl chloride	Ave	0.2096	0.1998		0.0191	0.0200	-4.7	20.0
1,3,5-Trichlorobenzene	Ave	0.8280	0.7911		0.0191	0.0200	-4.5	20.0
2-Methylnaphthalene	Ave	0.5961	0.6286		0.0422	0.0400	5.5	20.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: BFB6646.D BFB Injection Date: 03/16/2021

Instrument ID: A3UX16 BFB Injection Time: 10:14

Analysis Batch No.: 476975

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.1	
75	30.0 - 60.0 % of mass 95	46.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	82.2	
175	5.0 - 9.0 % of mass 174	5.6	(6.8) 1
176	95.0 - 101.0 % of mass 174	80.3	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-476975/3	UXM35681.D	03/16/2021	10:39
	CCV 240-476975/4	UXM35682.D	03/16/2021	11:04
	LCS 240-476975/5	UXM35683.D	03/16/2021	11:28
	MB 240-476975/8	UXM35686.D	03/16/2021	12:42
	LCSD 240-476975/10	UXM35688.D	03/16/2021	13:32
MSA-SW42A-030821	240-145599-17	UXM35689.D	03/16/2021	13:57
MSA-SW42B-030821	240-145599-18	UXM35690.D	03/16/2021	14:21
MSA-SW42C-030821	240-145599-19	UXM35691.D	03/16/2021	14:46
MSA-SW46A-030821	240-145599-30	UXM35692.D	03/16/2021	15:10
MSA-SW47A-030821	240-145599-31	UXM35693.D	03/16/2021	15:35
MSA-SW48A-030821	240-145599-32	UXM35694.D	03/16/2021	15:59
MSA-SW49A-030821	240-145599-33	UXM35695.D	03/16/2021	16:24

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476975/3 Calibration Date: 03/16/2021 10:39

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM35681.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2470	0.3035	0.1000	0.0246	0.0200	22.9*	20.0
Chloromethane	Ave	0.3154	0.3877	0.1000	0.0246	0.0200	22.9*	20.0
Vinyl chloride	Ave	0.3384	0.4424	0.1000	0.0261	0.0200	30.7*	20.0
Butadiene	Ave	0.2983	0.4015		0.0269	0.0200	34.6*	20.0
Bromomethane	Ave	0.2173	0.2199	0.0500	0.0202	0.0200	1.2	20.0
Chloroethane	Ave	0.1802	0.2021	0.0500	0.0224	0.0200	12.2	20.0
Dichlorofluoromethane	Ave	0.3832	0.4543		0.0237	0.0200	18.6	20.0
Trichlorofluoromethane	Ave	0.3386	0.4033	0.1000	0.0238	0.0200	19.1	20.0
Ethyl ether	Ave	0.1595	0.1782		0.0223	0.0200	11.7	20.0
Acrolein	Ave	0.0119	0.0124		0.104	0.100	3.5	20.0
1,1-Dichloroethene	Ave	0.2049	0.2239	0.1000	0.0219	0.0200	9.3	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1615	0.2029	0.0500	0.0251	0.0200	25.6*	20.0
Acetone	Ave	0.0178	0.0160	0.0100	0.0358	0.0400	-10.4	50.0
Iodomethane	Ave	0.3163	0.2246		0.0142	0.0200	-29.0*	20.0
Carbon disulfide	Ave	0.6609	0.7334	0.1000	0.0222	0.0200	11.0	20.0
Methyl acetate	Ave	0.1238	0.1257	0.1000	0.0406	0.0400	1.5	50.0
3-Chloro-1-propene	Ave	0.2690	0.3411		0.0254	0.0200	26.8*	20.0
Methylene Chloride	Ave	0.2433	0.2459	0.1000	0.0202	0.0200	1.1	50.0
tert-Butyl alcohol	Ave	0.0158	0.0155		0.197	0.200	-1.6	20.0
Acrylonitrile	Ave	0.0732	0.0798		0.218	0.200	8.9	20.0
Methyl tert-butyl ether	Ave	0.5668	0.5845	0.1000	0.0206	0.0200	3.1	20.0
trans-1,2-Dichloroethene	Ave	0.2425	0.2585	0.1000	0.0213	0.0200	6.6	20.0
Hexane	Ave	0.2648	0.3937		0.0297	0.0200	48.7*	20.0
Vinyl acetate	Lin1		0.3820		0.0236	0.0200	18.1	20.0
1,1-Dichloroethane	Ave	0.3751	0.4351	0.2000	0.0232	0.0200	16.0	20.0
2-Butanone	Lin1		0.0202	0.0100	0.0343	0.0400	-14.2	50.0
2,2-Dichloropropane	Ave	0.3219	0.3723		0.0231	0.0200	15.6	20.0
cis-1,2-Dichloroethene	Ave	0.2588	0.2685	0.1000	0.0207	0.0200	3.7	20.0
Bromochloromethane	Ave	0.1223	0.1250		0.0204	0.0200	2.2	20.0
Tetrahydrofuran	Ave	0.0470	0.0510		0.0434	0.0400	8.5	20.0
Chloroform	Ave	0.3871	0.4082	0.2000	0.0211	0.0200	5.4	20.0
1,1,1-Trichloroethane	Ave	0.3419	0.3587	0.1000	0.0210	0.0200	4.9	20.0
Cyclohexane	Ave	0.3195	0.4551	0.1000	0.0285	0.0200	42.4*	20.0
1,1-Dichloropropene	Ave	0.3034	0.3470		0.0229	0.0200	14.4	20.0
Carbon tetrachloride	Ave	0.3037	0.3132	0.1000	0.0206	0.0200	3.1	20.0
Isobutyl alcohol	Lin1		0.0046		0.472	0.500	-5.6	20.0
Benzene	Ave	0.9186	0.9899	0.5000	0.0216	0.0200	7.8	20.0
1,2-Dichloroethane	Ave	0.2786	0.3065	0.1000	0.0220	0.0200	10.0	20.0
n-Heptane	Lin1		0.2248		0.0267	0.0200	33.5*	20.0
Trichloroethene	Ave	0.2729	0.2606	0.1500	0.0191	0.0200	-4.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476975/3 Calibration Date: 03/16/2021 10:39

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM35681.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3764	0.4641	0.1000	0.0247	0.0200	23.3*	20.0
1,2-Dichloropropane	Ave	0.2086	0.2343	0.1000	0.0225	0.0200	12.3	20.0
1,4-Dioxane	Ave	0.0025	0.0024		0.395	0.400	-1.3	50.0
Dibromomethane	Ave	0.1316	0.1314		0.0200	0.0200	-0.1	20.0
Bromodichloromethane	Ave	0.2770	0.2962	0.1500	0.0214	0.0200	6.9	20.0
2-Chloroethyl vinyl ether	Ave	0.1290	0.1205		0.0374	0.0400	-6.6	20.0
cis-1,3-Dichloropropene	Ave	0.3399	0.3608	0.1500	0.0212	0.0200	6.2	50.0
4-Methyl-2-pentanone	Ave	0.1404	0.1449	0.0500	0.0413	0.0400	3.2	50.0
Toluene	Ave	1.254	1.406	0.4000	0.0224	0.0200	12.1	20.0
trans-1,3-Dichloropropene	Ave	0.3909	0.4275	0.1000	0.0219	0.0200	9.4	20.0
Ethyl methacrylate	Ave	0.2932	0.2967		0.0202	0.0200	1.2	20.0
1,1,2-Trichloroethane	Ave	0.2394	0.2454	0.1000	0.0205	0.0200	2.5	20.0
Tetrachloroethene	Ave	0.2814	0.2913	0.1500	0.0207	0.0200	3.5	20.0
1,3-Dichloropropane	Ave	0.4145	0.4681		0.0226	0.0200	12.9	20.0
2-Hexanone	Ave	0.1247	0.1377	0.0500	0.0442	0.0400	10.4	50.0
Dibromochloromethane	Ave	0.2667	0.2762		0.0207	0.0200	3.6	20.0
1,2-Dibromoethane	Ave	0.2447	0.2498		0.0204	0.0200	2.1	20.0
Chlorobenzene	Ave	0.8600	0.8971	0.3000	0.0209	0.0200	4.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2847	0.2825		0.0198	0.0200	-0.8	20.0
Ethylbenzene	Ave	0.4675	0.4937		0.0211	0.0200	5.6	20.0
m-Xylene & p-Xylene	Ave	0.5742	0.6140		0.0214	0.0200	6.9	20.0
o-Xylene	Ave	0.5485	0.5763		0.0210	0.0200	5.1	20.0
Styrene	Ave	0.9033	0.8750	0.3000	0.0194	0.0200	-3.1	20.0
Bromoform	Ave	0.1818	0.1615	0.1000	0.0178	0.0200	-11.1	20.0
Isopropylbenzene	Ave	1.400	1.531	0.1000	0.0219	0.0200	9.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5099	0.5218	0.3000	0.0205	0.0200	2.3	20.0
Bromobenzene	Ave	0.6625	0.6792		0.0205	0.0200	2.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1459	0.1502		0.0206	0.0200	3.0	20.0
1,2,3-Trichloropropane	Ave	0.1803	0.1719		0.0191	0.0200	-4.7	20.0
n-Propylbenzene	Ave	0.7465	0.8348		0.0224	0.0200	11.8	20.0
2-Chlorotoluene	Ave	0.6294	0.6827		0.0217	0.0200	8.5	20.0
1,3,5-Trimethylbenzene	Ave	2.020	2.208		0.0219	0.0200	9.3	20.0
4-Chlorotoluene	Ave	0.6506	0.7103		0.0218	0.0200	9.2	20.0
tert-Butylbenzene	Ave	1.852	2.054		0.0222	0.0200	10.9	20.0
1,2,4-Trimethylbenzene	Ave	1.990	2.190		0.0220	0.0200	10.1	20.0
sec-Butylbenzene	Ave	2.659	3.095		0.0233	0.0200	16.4	20.0
1,3-Dichlorobenzene	Ave	1.270	1.303	0.6000	0.0205	0.0200	2.6	20.0
p-Isopropyltoluene	Ave	2.297	2.555		0.0223	0.0200	11.3	20.0
1,4-Dichlorobenzene	Ave	1.281	1.301	0.5000	0.0203	0.0200	1.5	20.0
n-Butylbenzene	Ave	1.953	2.294		0.0235	0.0200	17.4	20.0
1,2-Dichlorobenzene	Ave	1.174	1.189	0.4000	0.0202	0.0200	1.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476975/3 Calibration Date: 03/16/2021 10:39

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM35681.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1158	0.1070	0.0500	0.0185	0.0200	-7.6	50.0
1,2,4-Trichlorobenzene	Ave	0.6699	0.6782	0.2000	0.0202	0.0200	1.2	50.0
Hexachlorobutadiene	Ave	0.3403	0.3450		0.0203	0.0200	1.4	50.0
Naphthalene	Ave	1.500	1.535		0.0205	0.0200	2.4	50.0
1,2,3-Trichlorobenzene	Ave	0.5997	0.6000		0.0200	0.0200	0.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2180	0.1935		0.0221	0.0249	-11.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2140		0.0226	0.0249	-9.3	20.0
Toluene-d8 (Surr)	Ave	1.075	1.032		0.0239	0.0249	-4.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.4259		0.0273	0.0249	9.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCV 240-476975/4 Calibration Date: 03/16/2021 11:04

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 16:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 18:33

Lab File ID: UXM35682.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0241	0.0312		0.258	0.200	29.2*	20.0
Diisopropyl ether	Ave	0.1780	0.1798		0.0202	0.0200	1.0	20.0
2-Chloro-1,3-butadiene	Ave	0.2907	0.3392		0.0233	0.0200	16.7	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5222	0.5570		0.0213	0.0200	6.7	20.0
Ethyl acetate	Ave	0.1396	0.1586		0.0455	0.0400	13.7	20.0
Propionitrile	Ave	0.0271	0.0309		0.228	0.200	13.9	20.0
Methacrylonitrile	Ave	0.1010	0.1170		0.232	0.200	15.8	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.5149	0.5207		0.0202	0.0200	1.1	20.0
n-Butanol	Lin1		0.0039		0.443	0.500	-11.3	20.0
Ethyl acrylate	Ave	0.1885	0.2112		0.0224	0.0200	12.0	20.0
Methyl methacrylate	Ave	0.1240	0.1501		0.0484	0.0400	21.1*	20.0
2-Nitropropane	Ave	0.0396	0.0452		0.0457	0.0400	14.2	20.0
n-Butyl acetate	Ave	0.1978	0.2363		0.0239	0.0200	19.5	20.0
1-Chlorohexane	Ave	0.4164	0.4720		0.0227	0.0200	13.4	20.0
Cyclohexanone	Ave	0.0114	0.0156		0.273	0.200	36.5*	20.0
Pentachloroethane	Ave	0.0994	0.1598		0.0643	0.0400	60.8*	20.0
1,2,3-Trimethylbenzene	Ave	1.959	1.969		0.0201	0.0200	0.5	20.0
Benzyl chloride	Ave	0.2096	0.2187		0.0209	0.0200	4.3	20.0
1,3,5-Trichlorobenzene	Ave	0.8280	0.8162		0.0197	0.0200	-1.4	20.0
2-Methylnaphthalene	Ave	0.5961	0.7510		0.0504	0.0400	26.0*	20.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: bfb037.d BFB Injection Date: 07/25/2018

Instrument ID: A3UX19 BFB Injection Time: 11:28

Analysis Batch No.: 337917

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	52.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	1.1	(1.3) 1
174	Greater than 50% of mass 95	82.7	
175	5.0 - 9.0 % of mass 174	6.4	(7.8) 1
176	95.0 - 101.0 % of mass 174	80.3	(97.1) 1
177	5.0 - 9.0 % of mass 176	5.2	(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
	STDA9 240-337917/8	U1900802.d	07/25/2018	13:24
	STDA9 240-337917/9	U1900803.d	07/25/2018	13:46
	STDA9 240-337917/10	U1900804.d	07/25/2018	14:08
	STDA9 240-337917/11	U1900805.d	07/25/2018	14:30
	STDA9 240-337917/12	U1900806.d	07/25/2018	14:52
	STDA9 240-337917/13	U1900807.d	07/25/2018	15:15

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 337917

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:24 Calibration End Date: 07/25/2018 15:15 Calibration ID: 46243

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-337917/13	U1900807.d
Level 2	STDA9 240-337917/12	U1900806.d
Level 3	STDA9 240-337917/11	U1900805.d
Level 4	STDA9 240-337917/10	U1900804.d
Level 5	STDA9 240-337917/9	U1900803.d
Level 6	STDA9 240-337917/8	U1900802.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								
Acetonitrile	0.0267 0.0420	0.0243	0.0339	0.0383	0.0393	Lin1	-0.123	0.0406				15.8			0.9970		0.9900
Diisopropyl ether	0.2480 0.2295	0.2266	0.2186	0.2314	0.2335	Ave		0.2313				4.2		20.0			
2-Chloro-1,3-butadiene	0.4103 0.4183	0.3468	0.3861	0.4073	0.4185	Ave		0.3979				7.0		20.0			
Ethyl-t-butyl ether (ETBE)	0.6986 0.7570	0.7116	0.6979	0.7473	0.7423	Ave		0.7258				3.6		20.0			
Ethyl acetate	0.3112 0.3333	0.2920	0.2787	0.2931	0.2963	Ave		0.3007				6.3		20.0			
Propionitrile	0.0310 0.0489	0.0345	0.0381	0.0469	0.0451	Ave		0.0408				17.8		20.0			
Methacrylonitrile	0.1725 0.1953	0.1825	0.1747	0.1831	0.1889	Ave		0.1828				4.7		20.0			
Tert-amyl-methyl ether (TAME)	0.7358 0.8075	0.7777	0.7365	0.7842	0.7786	Ave		0.7700				3.7		20.0			
n-Butanol	0.0093 0.0103	0.0088	0.0085	0.0096	0.0096	Ave		0.0094				7.2		20.0			
Ethyl acrylate	0.3503 0.4100	0.3368	0.3674	0.3811	0.3761	Ave		0.3703				6.9		20.0			
Methyl methacrylate	0.2597 0.2591	0.2305	0.2383	0.2454	0.2423	Ave		0.2459				4.7		20.0			
2-Nitropropane	0.0701 0.0817	0.0670	0.0681	0.0750	0.0735	Ave		0.0726				7.5		20.0			
n-Butyl acetate	0.5119 0.5820	0.5042	0.5279	0.5447	0.5478	Ave		0.5364				5.3		20.0			
1-Chlorohexane	0.5172 0.4745	0.4432	0.4302	0.4451	0.4558	Ave		0.4610				6.8		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 337917

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:24 Calibration End Date: 07/25/2018 15:15 Calibration ID: 46243

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								
Cyclohexanone	0.0133 0.0157	0.0130	0.0126	0.0136	0.0138	Ave		0.0137				7.9		20.0			
Pentachloroethane	0.3347 0.3690	0.3068	0.3632	0.3574	0.3461	Ave		0.3462				6.6		20.0			
1,2,3-Trimethylbenzene	2.1501 2.3751	2.2616	2.2092	2.3745	2.2840	Ave		2.2757				3.9		20.0			
Benzyl chloride	1.0405 1.5547	1.1450	1.1839	1.3693	1.4244	Ave		1.2863				15.1		20.0			
1,3,5-Trichlorobenzene	1.0658 1.0430	1.1076	0.9448	1.0009	0.9668	Ave		1.0215				6.1		20.0			
2-Methylnaphthalene	1.2994 1.8015	1.3689	1.2543	1.3185	1.5534	Ave		1.4327				14.6		20.0			
1-Chloro-1-fluoroethane TIC	0.2622 0.2664	0.2640	0.2502	0.2645	0.2646	Ave		0.2620				2.3		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 337917

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:24 Calibration End Date: 07/25/2018 15:15 Calibration ID: 46243

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-337917/13	U1900807.d
Level 2	STDA9 240-337917/12	U1900806.d
Level 3	STDA9 240-337917/11	U1900805.d
Level 4	STDA9 240-337917/10	U1900804.d
Level 5	STDA9 240-337917/9	U1900803.d
Level 6	STDA9 240-337917/8	U1900802.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Lin1	6053 1541995	10939	154933	344974	710013	5.00 800	10.0	100	200	400
Diisopropyl ether	FB	Ave	5629 842560	10198	100050	208654	422081	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	9314 1535298	15609	176705	367286	756317	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	15860 2778668	32026	319412	673922	1341567	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl acetate	FB	Ave	14128 2446844	26280	255115	528543	1070993	1.00 160	2.00	20.0	40.0	80.0
Propionitrile	FB	Ave	7042 1793207	15532	174314	423266	816037	5.00 800	10.0	100	200	400
Methacrylonitrile	FB	Ave	39164 7168171	82133	799457	1651014	3414371	5.00 800	10.0	100	200	400
Tert-amyl-methyl ether (TAME)	FB	Ave	16704 2963984	35001	337094	707156	1407333	0.500 80.0	1.00	10.0	20.0	40.0
n-Butanol	FB	Ave	5296 949589	9875	96861	216043	435974	12.5 2000	25.0	250	500	1000
Ethyl acrylate	FB	Ave	7952 1504928	15158	168159	343646	679802	0.500 80.0	1.00	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	11793 1902368	20747	218113	442524	875995	1.00 160	2.00	20.0	40.0	80.0
2-Nitropropane	FB	Ave	3185 599949	6028	62364	135288	265523	1.00 160	2.00	20.0	40.0	80.0
n-Butyl acetate	CBNZ d5	Ave	9641 1740666	17906	199107	397090	794623	0.500 80.0	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 337917

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:24 Calibration End Date: 07/25/2018 15:15 Calibration ID: 46243

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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-Chlorohexane	CBNZ d5	Ave	9741 1419019	15739	162266	324476	661168	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexanone	CBNZ d5	Ave	2498 468992	4617	47625	99504	200187	5.00 800	10.0	100	200	400
Pentachloroethane	DCBd 4	Ave	7164 1229564	12769	154980	304359	585743	1.00 160	2.00	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	23009 3957298	47067	471355	1010948	1932917	0.500 80.0	1.00	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Ave	11135 2590360	23829	252607	582984	1205410	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	11406 1737829	23051	201583	426143	818176	0.500 80.0	1.00	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	27811 6003075	56979	535247	1122673	2629143	1.00 160	2.00	20.0	40.0	80.0
1-Chloro-1-fluoroethane TIC	FB	Ave	5953 977727	11883	114539	238507	478166	0.500 80.0	1.00	10.0	20.0	40.0

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 337917

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:24 Calibration End Date: 07/25/2018 15:15 Calibration ID: 46243

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-337917/13	U1900807.d
Level 2	STDA9 240-337917/12	U1900806.d
Level 3	STDA9 240-337917/11	U1900805.d
Level 4	STDA9 240-337917/10	U1900804.d
Level 5	STDA9 240-337917/9	U1900803.d
Level 6	STDA9 240-337917/8	U1900802.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Acetonitrile	26.1						50					

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: bfb058.d BFB Injection Date: 08/27/2018

Instrument ID: A3UX19 BFB Injection Time: 16:23

Analysis Batch No.: 342719

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	49.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.6	(0.6) 1
174	Greater than 50% of mass 95	94.9	
175	5.0 - 9.0 % of mass 174	7.3	(7.7) 1
176	95.0 - 101.0 % of mass 174	92.7	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-342719/7	U1901323.d	08/27/2018	17:09
	STD8260 240-342719/8	U1901324.d	08/27/2018	17:31
	STD8260 240-342719/9	U1901325.d	08/27/2018	17:53
	ICIS 240-342719/10	U1901326.d	08/27/2018	18:16
	STD8260 240-342719/11	U1901327.d	08/27/2018	18:38
	STD8260 240-342719/12	U1901328.d	08/27/2018	19:01
	STD8260 240-342719/13	U1901329.d	08/27/2018	19:23
	ICV 240-342719/14	U1901330.d	08/27/2018	19:45

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-342719/13	U1901329.d
Level 2	STD8260 240-342719/12	U1901328.d
Level 3	STD8260 240-342719/11	U1901327.d
Level 4	ICIS 240-342719/10	U1901326.d
Level 5	STD8260 240-342719/9	U1901325.d
Level 6	STD8260 240-342719/8	U1901324.d
Level 7	STD8260 240-342719/7	U1901323.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								
Dichlorodifluoromethane	0.3252 0.4073	0.3858 0.4041	0.3902	0.3772	0.4052	Ave		0.3850			0.1000	7.5		20.0			
Chloromethane	0.3476 0.2860	0.2731 0.2757	0.2817	0.2748	0.2796	Ave		0.2883			0.1000	9.2		20.0			
Butadiene	0.2863 0.2923	0.2971 0.2827	0.2967	0.2831	0.2826	Ave		0.2887				2.3		20.0			
Vinyl chloride	0.2799 0.3039	0.3000 0.2955	0.3102	0.2950	0.3013	Ave		0.2980			0.1000	3.2		20.0			
Bromomethane	0.2530 0.2308	0.2391 0.2251	0.2340	0.2259	0.2264	Ave		0.2335			0.0500	4.3		20.0			
Chloroethane	0.2052 0.1842	0.1766 0.1812	0.1882	0.1779	0.1807	Ave		0.1848			0.0500	5.3		20.0			
Dichlorofluoromethane	0.4944 0.4514	0.4567 0.4411	0.4677	0.4468	0.4490	Ave		0.4581				3.9		20.0			
Trichlorofluoromethane	0.4941 0.5030	0.4893 0.4931	0.5122	0.4967	0.5003	Ave		0.4984			0.1000	1.5		20.0			
Ethyl ether	0.1731 0.1798	0.1898 0.1760	0.1849	0.1771	0.1791	Ave		0.1800				3.1		20.0			
Acrolein	0.0495 0.0430	0.0446 0.0441	0.0420	0.0454	0.0427	Ave		0.0445				5.6		20.0			
1,1-Dichloroethene	0.3476 0.3661	0.3473 0.3597	0.3727	0.3582	0.3610	Ave		0.3589			0.1000	2.6		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2493 0.2658	0.2366 0.2616	0.2651	0.2563	0.2622	Ave		0.2567			0.0500	4.1		20.0			
Acetone	+++++ 0.0747	0.0941 0.0735	0.0766	0.0752	0.0764	Ave		0.0784			0.0100	9.9		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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								
Iodomethane	0.4872 0.4597	0.4730 0.4538	0.4730	0.4575	0.4539	Ave		0.4655				2.7		20.0			
Carbon disulfide	0.8746 0.7168	0.8257 0.7023	0.7362	0.7031	0.7015	Ave		0.7515			0.1000	9.3		20.0			
3-Chloro-1-propene	0.3735 0.3489	0.3837 0.3396	0.3586	0.3361	0.3385	Ave		0.3541				5.3		20.0			
Methyl acetate	0.2638 0.2201	0.2366 0.2157	0.2398	0.2267	0.2267	Ave		0.2328			0.1000	6.9		20.0			
Methylene Chloride	+++++ 0.2751	0.3184 0.2694	0.2925	0.2792	0.2733	Ave		0.2846			0.1000	6.5		20.0			
tert-Butyl alcohol	0.0302 0.0245	0.0277 0.0251	0.0284	0.0260	0.0277	Ave		0.0271				7.4		20.0			
Acrylonitrile	0.1006 0.0983	0.1046 0.0951	0.1079	0.0977	0.0997	Ave		0.1006				4.3		20.0			
trans-1,2-Dichloroethene	0.3568 0.3338	0.3540 0.3216	0.3508	0.3269	0.3267	Ave		0.3387			0.1000	4.4		20.0			
Methyl tert-butyl ether	0.6459 0.7174	0.6970 0.7172	0.7178	0.6715	0.6899	Ave		0.6938			0.1000	3.9		20.0			
Hexane	0.3287 0.3643	0.3216 0.3693	0.3652	0.3577	0.3600	Ave		0.3524				5.4		20.0			
1,1-Dichloroethane	0.3877 0.4112	0.4141 0.3990	0.4182	0.3989	0.4043	Ave		0.4048			0.2000	2.6		20.0			
Vinyl acetate	0.4652 0.4557	0.4582 0.4625	0.4853	0.4584	0.4619	Ave		0.4639				2.1		20.0			
cis-1,2-Dichloroethene	0.3057 0.2869	0.2992 0.2782	0.2948	0.2801	0.2786	Ave		0.2891			0.1000	3.8		20.0			
2,2-Dichloropropane	0.2469 0.2502	0.2497 0.2458	0.2443	0.2181	0.2515	Ave		0.2438				4.8		20.0			
2-Butanone	0.0487 0.0444	0.0481 0.0466	0.0506	0.0457	0.0465	Ave		0.0472			0.0100	4.3		20.0			
Bromochloromethane	0.2347 0.1831	0.2161 0.1713	0.1973	0.1804	0.1790	Ave		0.1945				11.9		20.0			
Tetrahydrofuran	+++++ 0.0978	0.2111 0.0981	0.1202	0.1027	0.1037	Lin1	0.2460	0.0976				7.4			0.9990		0.9900
Chloroform	0.4336 0.4423	0.4430 0.4326	0.4702	0.4398	0.4415	Ave		0.4433			0.2000	2.8		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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								
1,1,1-Trichloroethane	0.3739 0.4296	0.4106 0.4262	0.4442	0.4096	0.4275	Ave		0.4174			0.1000	5.4		20.0			
Cyclohexane	0.3499 0.3999	0.3515 0.3986	0.3944	0.3825	0.3967	Ave		0.3819			0.1000	5.8		20.0			
1,1-Dichloropropene	0.3411 0.3565	0.3509 0.3499	0.3664	0.3469	0.3516	Ave		0.3519				2.3		20.0			
Carbon tetrachloride	0.3818 0.4136	0.3781 0.4121	0.4219	0.3956	0.4130	Ave		0.4023			0.1000	4.3		20.0			
Isobutyl alcohol	0.0122 0.0101	0.0118 0.0103	0.0107	0.0108	0.0111	Ave		0.0110				7.0		20.0			
Benzene	0.9270 0.9480	0.9546 0.9366	1.0106	0.9431	0.9423	Ave		0.9518			0.5000	2.9		20.0			
1,2-Dichloroethane	0.3794 0.3459	0.3845 0.3369	0.3743	0.3513	0.3479	Ave		0.3600			0.1000	5.2		20.0			
n-Heptane	+++++ 0.1978	0.8214 0.1912	0.2589	0.2169	0.2053	Lin1	0.6437	0.1861				3.4			1.0000		0.9900
Trichloroethene	0.3334 0.3137	0.3081 0.3106	0.3277	0.3076	0.3109	Ave		0.3160			0.1500	3.3		20.0			
Methylcyclohexane	0.4282 0.4825	0.4267 0.4698	0.4724	0.4580	0.4751	Ave		0.4590			0.1000	5.0		20.0			
1,2-Dichloropropane	0.2171 0.2187	0.2141 0.2164	0.2362	0.2209	0.2218	Ave		0.2208			0.1000	3.3		20.0			
Dibromomethane	0.2410 0.2204	0.2408 0.2155	0.2336	0.2191	0.2191	Ave		0.2271				4.9		20.0			
1,4-Dioxane	+++++ 0.0025	0.0016 0.0027	0.0021	0.0026	0.0028	Ave		0.0024				17.9		20.0			
Bromodichloromethane	0.3399 0.3440	0.3630 0.3379	0.3620	0.3462	0.3426	Ave		0.3479			0.1500	3.0		20.0			
2-Chloroethyl vinyl ether	0.1593 0.1741	0.1654 0.1828	0.1943	0.1818	0.1815	Ave		0.1770				6.6		20.0			
cis-1,3-Dichloropropene	0.3743 0.3841	0.3867 0.3870	0.4032	0.3827	0.3872	Ave		0.3865			0.1500	2.2		20.0			
4-Methyl-2-pentanone	0.3150 0.3064	0.3110 0.3144	0.3487	0.3229	0.3240	Ave		0.3203			0.0500	4.4		20.0			
Toluene	1.3762 1.3312	1.3706 1.3223	1.4018	1.3282	1.3309	Ave		1.3516			0.4000	2.3		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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								
trans-1,3-Dichloropropene	0.4999 0.4712	0.5033 0.4805	0.4835	0.4641	0.4704	Ave		0.4818			0.1000	3.1		20.0			
Ethyl methacrylate	0.3824 0.4408	0.4001 0.4600	0.4577	0.4462	0.4540	Ave		0.4344				7.1		20.0			
1,1,2-Trichloroethane	0.2808 0.2823	0.2821 0.2821	0.2973	0.2798	0.2847	Ave		0.2842			0.1000	2.1		20.0			
Tetrachloroethene	0.4234 0.4375	0.4194 0.4317	0.4508	0.4248	0.4314	Ave		0.4313			0.1500	2.4		20.0			
1,3-Dichloropropane	0.4988 0.4724	0.4733 0.4772	0.5009	0.4686	0.4705	Ave		0.4802				2.8		20.0			
2-Hexanone	0.2781 0.3092	0.3020 0.3219	0.3438	0.3247	0.3245	Ave		0.3149			0.0500	6.6		20.0			
Dibromochloromethane	0.3308 0.3663	0.3497 0.3646	0.3736	0.3604	0.3630	Ave		0.3583				3.9		20.0			
1,2-Dibromoethane	0.3770 0.3214	0.3321 0.3219	0.3422	0.3286	0.3194	Ave		0.3346				6.1		20.0			
Chlorobenzene	0.9370 0.9055	0.9832 0.8914	0.9544	0.9002	0.9056	Ave		0.9253			0.3000	3.7		20.0			
1,1,1,2-Tetrachloroethane	0.3225 0.3380	0.3313 0.3315	0.3490	0.3282	0.3347	Ave		0.3336				2.5		20.0			
Ethylbenzene	0.4566 0.4899	0.4640 0.4838	0.5159	0.4863	0.4886	Ave		0.4836				4.0		20.0			
m-Xylene & p-Xylene	0.5709 0.5980	0.5535 0.5943	0.6142	0.5959	0.5965	Ave		0.5890				3.4		20.0			
o-Xylene	0.5188 0.5706	0.5578 0.5579	0.5806	0.5638	0.5683	Ave		0.5597				3.5		20.0			
Styrene	0.8915 0.9829	0.9056 0.9730	1.0088	0.9699	0.9794	Ave		0.9588			0.3000	4.5		20.0			
Bromoform	0.2892 0.2933	0.2907 0.2979	0.3020	0.2847	0.2951	Ave		0.2933			0.1000	2.0		20.0			
Isopropylbenzene	1.3694 1.5447	1.4922 1.4942	1.5808	1.5060	1.5314	Ave		1.5027			0.1000	4.4		20.0			
1,1,2,2-Tetrachloroethane	0.7123 0.7674	0.7872 0.7661	0.8261	0.7624	0.7730	Ave		0.7706			0.3000	4.4		20.0			
Bromobenzene	0.7562 0.7639	0.7920 0.7473	0.8125	0.7532	0.7575	Ave		0.7690				3.1		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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								
1,2,3-Trichloropropane	0.2805 0.2866	0.2903 0.2882	0.3178	0.2884	0.2929	Ave		0.2921				4.1		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2667	0.2763 0.2751	0.2902	0.2665	0.2675	Ave		0.2737				3.3		20.0			
n-Propylbenzene	0.7009 0.7973	0.7492 0.7772	0.8251	0.7710	0.7894	Ave		0.7729				5.1		20.0			
2-Chlorotoluene	0.6131 0.6732	0.6212 0.6509	0.7079	0.6539	0.6587	Ave		0.6541				4.9		20.0			
1,3,5-Trimethylbenzene	2.1099 2.2883	2.1099 2.2183	2.3988	2.1936	2.2594	Ave		2.2255				4.6		20.0			
4-Chlorotoluene	0.7307 0.7048	0.6944 0.6840	0.7470	0.7010	0.6888	Ave		0.7072				3.3		20.0			
tert-Butylbenzene	1.9093 2.2037	2.0260 2.1009	2.2785	2.0983	2.1715	Ave		2.1126				5.7		20.0			
1,2,4-Trimethylbenzene	2.0996 2.3002	2.2590 2.2368	2.3762	2.2406	2.2826	Ave		2.2564				3.7		20.0			
sec-Butylbenzene	2.5921 3.0046	2.6994 2.8685	2.9965	2.8235	2.9285	Ave		2.8447				5.4		20.0			
1,3-Dichlorobenzene	1.4791 1.3933	1.5035 1.3394	1.4385	1.3676	1.3647	Ave		1.4123			0.6000	4.4		20.0			
p-Isopropyltoluene	2.2955 2.5970	2.3910 2.5362	2.6099	2.4625	2.5496	Ave		2.4917				4.6		20.0			
1,4-Dichlorobenzene	1.6054 1.4113	1.5675 1.3669	1.4816	1.3825	1.3984	Ave		1.4591			0.5000	6.5		20.0			
n-Butylbenzene	1.8944 2.1259	2.0232 2.0712	2.1091	2.0276	2.0953	Ave		2.0495				3.8		20.0			
1,2-Dichlorobenzene	1.3437 1.2534	1.3687 1.2318	1.3105	1.2348	1.2330	Ave		1.2823			0.4000	4.5		20.0			
1,2-Dibromo-3-Chloropropane	0.2630 0.2491	0.2219 0.2547	0.2430	0.2371	0.2465	Ave		0.2450			0.0500	5.4		20.0			
1,2,4-Trichlorobenzene	0.9409 0.8412	0.9494 0.8737	0.8099	0.7792	0.7909	Ave		0.8550			0.2000	8.1		20.0			
Hexachlorobutadiene	0.4751 0.4459	0.4859 0.4196	0.4201	0.4076	0.4202	Ave		0.4392				7.0		20.0			
Naphthalene	+++++ 2.4081	2.5248 2.5673	2.2519	2.1428	2.2829	Ave		2.3630				7.0		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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								
1,2,3-Trichlorobenzene	0.7893 0.7724	0.8277 0.8517	0.7383	0.6846	0.7103	Ave		0.7677				7.9		20.0			
Dibromofluoromethane (Surr)	0.2950 0.2630	0.2820 0.2531	0.2707	0.2587	0.2619	Ave		0.2692				5.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3515 0.2903	0.3408 0.2779	0.3137	0.2940	0.2963	Ave		0.3092				8.9		20.0			
Toluene-d8 (Surr)	1.2799 1.1805	1.2018 1.1653	1.2236	1.1594	1.1844	Ave		1.1993				3.5		20.0			
4-Bromofluorobenzene (Surr)	0.5295 0.4325	0.4716 0.4172	0.4467	0.4309	0.4307	Ave		0.4513				8.5		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-342719/13	U1901329.d
Level 2	STD8260 240-342719/12	U1901328.d
Level 3	STD8260 240-342719/11	U1901327.d
Level 4	ICIS 240-342719/10	U1901326.d
Level 5	STD8260 240-342719/9	U1901325.d
Level 6	STD8260 240-342719/8	U1901324.d
Level 7	STD8260 240-342719/7	U1901323.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
Dichlorodifluoromethane	FB	Ave	7625 1180992	18328 1552738	186223	366772	792590	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloromethane	FB	Ave	8152 829233	12972 1059365	134420	267203	546909	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Butadiene	FB	Ave	6713 847603	14115 1086231	141609	275330	552757	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl chloride	FB	Ave	6564 881108	14250 1135494	148037	286894	589426	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromomethane	FB	Ave	5934 669257	11360 864872	111689	219651	442826	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloroethane	FB	Ave	4812 533953	8387 696179	89838	172968	353502	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	11593 1308784	21694 1694878	223205	434465	878380	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	11587 1458414	23241 1894654	244417	483006	978643	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl ether	FB	Ave	4060 521372	9015 676475	88252	172224	350377	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acrolein	FB	Ave	5804 622965	10600 846753	100203	220720	417769	2.50 300	5.00 400	50.0	100	200
1,1-Dichloroethene	FB	Ave	8152 1061526	16498 1382045	177882	348307	706289	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	5847 770733	11240 1005400	126531	249289	512861	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acetone	FB	Ave	+++++ 433055	8941 564923	73077	146204	298968	+++++ 120	2.00 160	20.0	40.0	80.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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
Iodomethane	FB	Ave	11424 1332936	22471 1743886	225726	444884	888035	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon disulfide	FB	Ave	20511 2078244	39223 2698750	351356	683722	1372316	0.500 60.0	1.00 80.0	10.0	20.0	40.0
3-Chloro-1-propene	FB	Ave	8759 1011692	18227 1304832	171118	326833	662138	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl acetate	FB	Ave	12374 1276471	22480 1658043	228841	440913	886871	1.00 120	2.00 160	20.0	40.0	80.0
Methylene Chloride	FB	Ave	+++++ 797526	15126 1035294	139613	271471	534613	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
tert-Butyl alcohol	FB	Ave	7089 709594	13140 963916	135517	252801	542388	5.00 600	10.0 800	100	200	400
Acrylonitrile	FB	Ave	23600 2849701	49680 3654042	514757	950386	1951040	5.00 600	10.0 800	100	200	400
trans-1,2-Dichloroethene	FB	Ave	8368 967924	16818 1235776	167419	317885	639131	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl tert-butyl ether	FB	Ave	15146 2079947	33109 2755910	342568	653045	1349603	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexane	FB	Ave	7709 1056328	15276 1419117	174299	347875	704185	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	9092 1192355	19673 1533220	199597	387941	790957	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl acetate	FB	Ave	10910 1321142	21765 1777280	231586	445770	903595	0.500 60.0	1.00 80.0	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	7168 831715	14212 1069027	140685	272438	545012	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	5791 725393	11860 944363	116583	212094	491954	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Butanone	FB	Ave	2283 257675	4567 358198	48290	88909	181887	1.00 120	2.00 160	20.0	40.0	80.0
Bromochloromethane	FB	Ave	5503 530825	10266 658069	94139	175479	350082	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrahydrofuran	FB	Lin1	+++++ 566965	20056 753652	114720	199816	405539	+++++ 120	2.00 160	20.0	40.0	80.0
Chloroform	FB	Ave	10169 1282514	21044 1662428	224371	427697	863672	0.500 60.0	1.00 80.0	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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
1,1,1-Trichloroethane	FB	Ave	8767 1245609	19503 1637723	211997	398309	836381	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Cyclohexane	FB	Ave	8206 1159393	16696 1531667	188221	372006	776128	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	7998 1033663	16667 1344377	174842	337392	687882	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	8954 1199313	17959 1583649	201366	384700	807965	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	7140 731439	14010 985172	127213	263438	540692	12.5 1500	25.0 2000	250	500	1000
Benzene	FB	Ave	21738 2748682	45349 3599104	482300	917150	1843426	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	8896 1002994	18266 1294416	178638	341638	680627	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Heptane	FB	Lin1	+++++ 573367	39021 734621	123554	210893	401639	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Trichloroethene	FB	Ave	7819 909646	14636 1193487	156409	299123	608172	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	10042 1399000	20268 1805108	225444	445411	929492	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	5092 634222	10172 831616	112735	214790	433884	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromomethane	FB	Ave	5652 638964	11437 828119	111478	213090	428543	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 147508	1560 204613	20257	50489	108387	+++++ 1200	20.0 1600	200	400	800
Bromodichloromethane	FB	Ave	7972 997303	17242 1298324	172767	336655	670319	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	7473 1009556	15714 1404589	185460	353595	710198	1.00 120	2.00 160	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	8778 1113655	18371 1486992	192411	372198	757475	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Methyl-2-pentanone	FB	Ave	14774 1776570	29549 2416341	332777	627983	1267570	1.00 120	2.00 160	20.0	40.0	80.0
Toluene	CBNZ d5	Ave	25413	50838	544474	1040131	2085055	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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
			3039879	4036837				60.0	80.0			
trans-1,3-Dichloropropene	CBNZ d5	Ave	9232 1076004	18668 1466824	187797	363416	737016	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl methacrylate	CBNZ d5	Ave	7062 1006534	14839 1404401	177753	349427	711262	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloroethane	CBNZ d5	Ave	5186 644677	10462 861140	115489	219105	445968	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	7818 999011	15556 1317893	175104	332664	675866	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichloropropane	CBNZ d5	Ave	9211 1078694	17554 1456758	194537	366944	737142	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Hexanone	CBNZ d5	Ave	10272 1411899	22402 1965782	267096	508487	1016835	1.00 120	2.00 160	20.0	40.0	80.0
Dibromochloromethane	CBNZ d5	Ave	6108 836499	12969 1113195	145120	282195	568645	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromoethane	CBNZ d5	Ave	6962 733806	12317 982631	132926	257341	500324	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chlorobenzene	CBNZ d5	Ave	17303 2067581	36469 2721351	370702	704913	1418747	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	5956 771705	12290 1012040	135561	257026	524311	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethylbenzene	CBNZ d5	Ave	8431 1118678	17209 1476959	200390	380861	765441	0.500 60.0	1.00 80.0	10.0	20.0	40.0
m-Xylene & p-Xylene	CBNZ d5	Ave	10542	20530	238543	466651	934583	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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
			1365436	1814431				60.0	80.0			
o-Xylene	CBNZ d5	Ave	9580	20689	225509	441487	890297	0.500	1.00	10.0	20.0	40.0
			1302937	1703380				60.0	80.0			
Styrene	CBNZ d5	Ave	16463	33591	391834	759556	1534422	0.500	1.00	10.0	20.0	40.0
			2244503	2970527				60.0	80.0			
Bromoform	CBNZ d5	Ave	5340	10783	117306	222929	462320	0.500	1.00	10.0	20.0	40.0
			669771	909465				60.0	80.0			
Isopropylbenzene	CBNZ d5	Ave	25288	55346	613985	1179370	2399226	0.500	1.00	10.0	20.0	40.0
			3527221	4561888				60.0	80.0			
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	7218	16261	172140	328526	660294	0.500	1.00	10.0	20.0	40.0
			951258	1271933				60.0	80.0			
Bromobenzene	DCBd 4	Ave	7663	16361	169316	324573	647055	0.500	1.00	10.0	20.0	40.0
			946835	1240722				60.0	80.0			
1,2,3-Trichloropropane	DCBd 4	Ave	2842	5997	66218	124262	250203	0.500	1.00	10.0	20.0	40.0
			355186	478494				60.0	80.0			
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++	5707	60466	114842	228469	+++++	1.00	10.0	20.0	40.0
			330637	456736				60.0	80.0			
n-Propylbenzene	DCBd 4	Ave	7103	15476	171938	332244	674293	0.500	1.00	10.0	20.0	40.0
			988262	1290307				60.0	80.0			
2-Chlorotoluene	DCBd 4	Ave	6213	12831	147510	281753	562614	0.500	1.00	10.0	20.0	40.0
			834423	1080636				60.0	80.0			
1,3,5-Trimethylbenzene	DCBd 4	Ave	21381	43584	499875	945225	1929863	0.500	1.00	10.0	20.0	40.0
			2836427	3682951				60.0	80.0			
4-Chlorotoluene	DCBd 4	Ave	7405	14345	155656	302046	588358	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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
			873575	1135643				60.0	80.0			
tert-Butylbenzene	DCBd 4	Ave	19348 2731529	41850 3487952	474813	904165	1854784	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	21277 2851175	46663 3713592	495166	965487	1949684	0.500 60.0	1.00 80.0	10.0	20.0	40.0
sec-Butylbenzene	DCBd 4	Ave	26267 3724288	55760 4762339	624437	1216655	2501406	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichlorobenzene	DCBd 4	Ave	14989 1726981	31057 2223773	299776	589299	1165661	0.500 60.0	1.00 80.0	10.0	20.0	40.0
p-Isopropyltoluene	DCBd 4	Ave	23262 3219084	49391 4210777	543873	1061108	2177763	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dichlorobenzene	DCBd 4	Ave	16269 1749380	32379 2269476	308743	595729	1194426	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Butylbenzene	DCBd 4	Ave	19197 2635155	41792 3438646	439518	873706	1789693	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichlorobenzene	DCBd 4	Ave	13617 1553579	28272 2045057	273092	532075	1053180	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	2665 308798	4583 422865	50642	102189	210526	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	9535 1042664	19612 1450610	168774	335760	675526	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexachlorobutadiene	DCBd 4	Ave	4814 552719	10037 696652	87534	175651	358938	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Naphthalene	DCBd 4	Ave	+++++	52154	469280	923339	1949946	+++++	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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
			2984863	4262332				60.0	80.0			
1,2,3-Trichlorobenzene	DCBd 4	Ave	7998 957428	17097 1414051	153843	295011	606712	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	6919 762443	13395 972724	129168	251584	512374	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	8242 841615	16187 1067780	149716	285917	579615	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Toluene-d8 (Surr)	CBNZ d5	Ave	23636 2695636	44577 3557725	475254	907923	1855495	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	9778 987516	17494 1273707	173480	337411	674745	0.500 60.0	1.00 80.0	10.0	20.0	40.0

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-342719/13	U1901329.d
Level 2	STD8260 240-342719/12	U1901328.d
Level 3	STD8260 240-342719/11	U1901327.d
Level 4	ICIS 240-342719/10	U1901326.d
Level 5	STD8260 240-342719/9	U1901325.d
Level 6	STD8260 240-342719/8	U1901324.d
Level 7	STD8260 240-342719/7	U1901323.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Tetrahydrofuran	+++++	-9.7						50				
n-Heptane	+++++	-4.5						50				

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-342719/14 Calibration Date: 08/27/2018 19:45

Instrument ID: A3UX19 Calib Start Date: 08/27/2018 17:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2018 19:23

Lab File ID: U1901330.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3850	0.2913	0.1000	0.0151	0.0200	-24.3	30.0
Chloromethane	Ave	0.2883	0.2492	0.1000	0.0173	0.0200	-13.6	30.0
Butadiene	Ave	0.2887	0.2477		0.0172	0.0200	-14.2	30.0
Vinyl chloride	Ave	0.2980	0.2874	0.1000	0.0193	0.0200	-3.5	30.0
Bromomethane	Ave	0.2335	0.2187	0.0500	0.0187	0.0200	-6.3	30.0
Chloroethane	Ave	0.1848	0.1799	0.0500	0.0195	0.0200	-2.7	30.0
Dichlorofluoromethane	Ave	0.4581	0.4761		0.0208	0.0200	3.9	30.0
Trichlorofluoromethane	Ave	0.4984	0.5062	0.1000	0.0203	0.0200	1.6	30.0
Ethyl ether	Ave	0.1800	0.1933		0.0215	0.0200	7.4	30.0
Acrolein	Ave	0.0445	0.0361		0.0812	0.100	-18.8	30.0
1,1-Dichloroethene	Ave	0.3589	0.3889	0.1000	0.0217	0.0200	8.3	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2567	0.2852	0.0500	0.0222	0.0200	11.1	30.0
Acetone	Ave	0.0784	0.0730	0.0100	0.0372	0.0400	-6.9	50.0
Iodomethane	Ave	0.4655	0.4827		0.0207	0.0200	3.7	30.0
Carbon disulfide	Ave	0.7515	0.7522	0.1000	0.0200	0.0200	0.0	30.0
3-Chloro-1-propene	Ave	0.3541	0.3610		0.0204	0.0200	2.0	30.0
Methyl acetate	Ave	0.2328	0.2202	0.1000	0.0378	0.0400	-5.4	50.0
Methylene Chloride	Ave	0.2846	0.2847	0.1000	0.0200	0.0200	0.0	50.0
tert-Butyl alcohol	Ave	0.0271	0.0283		0.209	0.200	4.3	30.0
Acrylonitrile	Ave	0.1006	0.1019		0.203	0.200	1.4	30.0
Methyl tert-butyl ether	Ave	0.6938	0.7063	0.1000	0.0204	0.0200	1.8	30.0
trans-1,2-Dichloroethene	Ave	0.3387	0.3553	0.1000	0.0210	0.0200	4.9	30.0
Hexane	Ave	0.3524	0.3872		0.0220	0.0200	9.9	30.0
1,1-Dichloroethane	Ave	0.4048	0.4171	0.2000	0.0206	0.0200	3.0	30.0
Vinyl acetate	Ave	0.4639	0.5080		0.0219	0.0200	9.5	30.0
2,2-Dichloropropane	Ave	0.2438	0.2691		0.0221	0.0200	10.4	30.0
2-Butanone	Ave	0.0472	0.0464	0.0100	0.0393	0.0400	-1.8	50.0
cis-1,2-Dichloroethene	Ave	0.2891	0.2867	0.1000	0.0198	0.0200	-0.8	30.0
Bromochloromethane	Ave	0.1945	0.1891		0.0194	0.0200	-2.8	30.0
Tetrahydrofuran	Lin1		0.1082		0.0418	0.0400	4.6	30.0
Chloroform	Ave	0.4433	0.4563	0.2000	0.0206	0.0200	2.9	30.0
1,1,1-Trichloroethane	Ave	0.4174	0.4498	0.1000	0.0216	0.0200	7.8	30.0
Cyclohexane	Ave	0.3819	0.4119	0.1000	0.0216	0.0200	7.8	30.0
1,1-Dichloropropene	Ave	0.3519	0.3667		0.0208	0.0200	4.2	30.0
Carbon tetrachloride	Ave	0.4023	0.4240	0.1000	0.0211	0.0200	5.4	30.0
Isobutyl alcohol	Ave	0.0110	0.0112		0.508	0.500	1.6	30.0
1,2-Dichloroethane	Ave	0.3600	0.3604	0.1000	0.0200	0.0200	0.1	30.0
Benzene	Ave	0.9518	0.9713	0.5000	0.0204	0.0200	2.1	30.0
n-Heptane	Lin1		0.2300		0.0213	0.0200	6.3	30.0
Trichloroethene	Ave	0.3160	0.3196	0.1500	0.0202	0.0200	1.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-342719/14 Calibration Date: 08/27/2018 19:45

Instrument ID: A3UX19 Calib Start Date: 08/27/2018 17:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2018 19:23

Lab File ID: U1901330.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4590	0.4761	0.1000	0.0207	0.0200	3.7	30.0
1,2-Dichloropropane	Ave	0.2208	0.2306	0.1000	0.0209	0.0200	4.5	30.0
Dibromomethane	Ave	0.2271	0.2193		0.0193	0.0200	-3.4	30.0
1,4-Dioxane	Ave	0.0024	0.0028		0.474	0.400	18.4	50.0
Bromodichloromethane	Ave	0.3479	0.3494	0.1500	0.0201	0.0200	0.4	30.0
2-Chloroethyl vinyl ether	Ave	0.1770	0.1822		0.0206	0.0200	2.9	30.0
cis-1,3-Dichloropropene	Ave	0.3865	0.4060	0.1500	0.0210	0.0200	5.1	50.0
4-Methyl-2-pentanone	Ave	0.3203	0.3230	0.0500	0.0403	0.0400	0.8	50.0
Toluene	Ave	1.352	1.362	0.4000	0.0201	0.0200	0.7	30.0
trans-1,3-Dichloropropene	Ave	0.4818	0.4613	0.1000	0.0191	0.0200	-4.3	30.0
Ethyl methacrylate	Ave	0.4344	0.4432		0.0204	0.0200	2.0	30.0
1,1,2-Trichloroethane	Ave	0.2842	0.2905	0.1000	0.0204	0.0200	2.2	30.0
Tetrachloroethene	Ave	0.4313	0.4446	0.1500	0.0206	0.0200	3.1	30.0
1,3-Dichloropropane	Ave	0.4802	0.4738		0.0197	0.0200	-1.3	30.0
2-Hexanone	Ave	0.3149	0.3202	0.0500	0.0407	0.0400	1.7	50.0
Dibromochloromethane	Ave	0.3583	0.3631		0.0203	0.0200	1.3	30.0
1,2-Dibromoethane	Ave	0.3346	0.3230		0.0193	0.0200	-3.5	30.0
Chlorobenzene	Ave	0.9253	0.9231	0.3000	0.0200	0.0200	-0.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3336	0.3465		0.0208	0.0200	3.9	30.0
Ethylbenzene	Ave	0.4836	0.4958		0.0205	0.0200	2.5	30.0
m-Xylene & p-Xylene	Ave	0.5890	0.6110		0.0207	0.0200	3.7	30.0
o-Xylene	Ave	0.5597	0.5768		0.0206	0.0200	3.1	30.0
Styrene	Ave	0.9588	0.9701	0.3000	0.0202	0.0200	1.2	30.0
Bromoform	Ave	0.2933	0.2923	0.1000	0.0199	0.0200	-0.3	30.0
Isopropylbenzene	Ave	1.503	1.583	0.1000	0.0211	0.0200	5.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7706	0.7768	0.3000	0.0202	0.0200	0.8	30.0
Bromobenzene	Ave	0.7690	0.7545		0.0196	0.0200	-1.9	30.0
1,2,3-Trichloropropane	Ave	0.2921	0.3010		0.0206	0.0200	3.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2737	0.2785		0.0203	0.0200	1.7	30.0
n-Propylbenzene	Ave	0.7729	0.7998		0.0207	0.0200	3.5	30.0
2-Chlorotoluene	Ave	0.6541	0.6592		0.0202	0.0200	0.8	30.0
1,3,5-Trimethylbenzene	Ave	2.225	2.303		0.0207	0.0200	3.5	30.0
4-Chlorotoluene	Ave	0.7072	0.7078		0.0200	0.0200	0.0	30.0
tert-Butylbenzene	Ave	2.113	2.203		0.0209	0.0200	4.3	30.0
1,2,4-Trimethylbenzene	Ave	2.256	2.278		0.0202	0.0200	1.0	30.0
sec-Butylbenzene	Ave	2.845	3.009		0.0212	0.0200	5.8	30.0
1,3-Dichlorobenzene	Ave	1.412	1.370	0.6000	0.0194	0.0200	-3.0	30.0
p-Isopropyltoluene	Ave	2.492	2.628		0.0211	0.0200	5.5	30.0
1,4-Dichlorobenzene	Ave	1.459	1.395	0.5000	0.0191	0.0200	-4.4	30.0
n-Butylbenzene	Ave	2.050	2.114		0.0206	0.0200	3.1	30.0
1,2-Dichlorobenzene	Ave	1.282	1.257	0.4000	0.0196	0.0200	-2.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-342719/14 Calibration Date: 08/27/2018 19:45

Instrument ID: A3UX19 Calib Start Date: 08/27/2018 17:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2018 19:23

Lab File ID: U1901330.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2450	0.2411	0.0500	0.0197	0.0200	-1.6	50.0
1,2,4-Trichlorobenzene	Ave	0.8550	0.8004	0.2000	0.0187	0.0200	-6.4	50.0
Hexachlorobutadiene	Ave	0.4392	0.4373		0.0199	0.0200	-0.4	50.0
Naphthalene	Ave	2.363	2.262		0.0191	0.0200	-4.3	50.0
1,2,3-Trichlorobenzene	Ave	0.7677	0.7284		0.0190	0.0200	-5.1	30.0
Dibromofluoromethane (Surr)	Ave	0.2692	0.2769		0.0206	0.0200	2.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3092	0.3266		0.0211	0.0200	5.6	30.0
Toluene-d8 (Surr)	Ave	1.199	1.238		0.0206	0.0200	3.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4513	0.4759		0.0211	0.0200	5.5	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: bfb766.d BFB Injection Date: 03/15/2021

Instrument ID: A3UX19 BFB Injection Time: 18:13

Analysis Batch No.: 476858

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.8	
75	30.0 - 60.0 % of mass 95	49.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	78.7	
175	5.0 - 9.0 % of mass 174	6.8	(8.7) 1
176	95.0 - 101.0 % of mass 174	76.0	(96.6) 1
177	5.0 - 9.0 % of mass 176	5.0	(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
	CCV 240-476858/3	U1920959.d	03/15/2021	18:42
	CCVIS 240-476858/4	U1920960.d	03/15/2021	19:04
	LCS 240-476858/5	U1920961.d	03/15/2021	19:29
	MB 240-476858/8	U1920964.d	03/15/2021	20:55
MSA-SW42D-030821	240-145599-20	U1920973.d	03/16/2021	1:05
MSA-SW43A-030821	240-145599-21	U1920974.d	03/16/2021	1:34
MSA-SW43B-030821	240-145599-22	U1920975.d	03/16/2021	2:09
MSA-SW43C-030821	240-145599-23	U1920976.d	03/16/2021	2:36
MSA-SW43D-030821	240-145599-24	U1920977.d	03/16/2021	3:06
MSA-SW44A-030821	240-145599-25	U1920978.d	03/16/2021	3:36
MSA-SW44B-030821	240-145599-26	U1920979.d	03/16/2021	4:06
MSA-SW44C-030821	240-145599-27	U1920980.d	03/16/2021	4:37
MSA-SW44D-030821	240-145599-28	U1920981.d	03/16/2021	5:17
TB-030821	240-145599-29	U1920982.d	03/16/2021	5:48

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCV 240-476858/3 Calibration Date: 03/15/2021 18:42

Instrument ID: A3UX19 Calib Start Date: 07/25/2018 13:24

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/25/2018 15:15

Lab File ID: U1920959.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Lin1		0.0370		0.186	0.200	-7.2	20.0
Diisopropyl ether	Ave	0.2313	0.2130		0.0184	0.0200	-7.9	20.0
2-Chloro-1,3-butadiene	Ave	0.3979	0.4558		0.0229	0.0200	14.6	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7258	0.6885		0.0190	0.0200	-5.1	20.0
Propionitrile	Ave	0.0408	0.0484		0.237	0.200	18.7	20.0
Ethyl acetate	Ave	0.3007	0.3404		0.0453	0.0400	13.2	20.0
Methacrylonitrile	Ave	0.1828	0.2215		0.242	0.200	21.2*	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.7700	0.6595		0.0171	0.0200	-14.4	20.0
n-Butanol	Ave	0.0094	0.0127		0.678	0.500	35.5*	20.0
Ethyl acrylate	Ave	0.3703	0.3785		0.0204	0.0200	2.2	20.0
Methyl methacrylate	Ave	0.2459	0.2592		0.0422	0.0400	5.4	20.0
2-Nitropropane	Ave	0.0726	0.0927		0.0511	0.0400	27.8*	20.0
n-Butyl acetate	Ave	0.5364	0.5665		0.0211	0.0200	5.6	20.0
1-Chlorohexane	Ave	0.4610	0.4275		0.0185	0.0200	-7.3	20.0
Cyclohexanone	Ave	0.0137	0.0147		0.215	0.200	7.7	20.0
Pentachloroethane	Ave	0.3462	0.2751		0.0318	0.0400	-20.5*	20.0
1,2,3-Trimethylbenzene	Ave	2.276	2.329		0.0205	0.0200	2.3	20.0
Benzyl chloride	Ave	1.286	1.408		0.0219	0.0200	9.4	20.0
1,3,5-Trichlorobenzene	Ave	1.021	0.8244		0.0161	0.0200	-19.3	20.0
2-Methylnaphthalene	Ave	1.433	1.097		0.0306	0.0400	-23.4*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476858/4 Calibration Date: 03/15/2021 19:04

Instrument ID: A3UX19 Calib Start Date: 08/27/2018 17:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2018 19:23

Lab File ID: U1920960.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3850	0.3488	0.1000	0.0181	0.0200	-9.4	20.0
Chloromethane	Ave	0.2883	0.3568	0.1000	0.0247	0.0200	23.7*	20.0
Butadiene	Ave	0.2887	0.3269		0.0226	0.0200	13.2	20.0
Vinyl chloride	Ave	0.2980	0.3620	0.1000	0.0243	0.0200	21.5*	20.0
Bromomethane	Ave	0.2335	0.2407	0.0500	0.0206	0.0200	3.1	20.0
Chloroethane	Ave	0.1848	0.2254	0.0500	0.0244	0.0200	21.9*	20.0
Dichlorofluoromethane	Ave	0.4581	0.5169		0.0226	0.0200	12.8	20.0
Trichlorofluoromethane	Ave	0.4984	0.4633	0.1000	0.0186	0.0200	-7.0	20.0
Ethyl ether	Ave	0.1800	0.2383		0.0265	0.0200	32.4*	20.0
Acrolein	Ave	0.0445	0.0184		0.0414	0.100	-58.6*	20.0
1,1-Dichloroethene	Ave	0.3589	0.4355	0.1000	0.0243	0.0200	21.3*	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2567	0.2899	0.0500	0.0226	0.0200	12.9	20.0
Acetone	Ave	0.0784	0.0937	0.0100	0.0478	0.0400	19.5	50.0
Iodomethane	Ave	0.4655	0.4315		0.0185	0.0200	-7.3	20.0
Carbon disulfide	Ave	0.7515	0.8477	0.1000	0.0226	0.0200	12.8	20.0
3-Chloro-1-propene	Ave	0.3541	0.4301		0.0243	0.0200	21.5*	20.0
Methyl acetate	Ave	0.2328	0.2906	0.1000	0.0499	0.0400	24.8	50.0
Methylene Chloride	Ave	0.2846	0.3612	0.1000	0.0254	0.0200	26.9	50.0
tert-Butyl alcohol	Ave	0.0271	0.0316		0.233	0.200	16.7	20.0
Acrylonitrile	Ave	0.1006	0.1352		0.269	0.200	34.5*	20.0
trans-1,2-Dichloroethene	Ave	0.3387	0.4200	0.1000	0.0248	0.0200	24.0*	20.0
Methyl tert-butyl ether	Ave	0.6938	0.7338	0.1000	0.0212	0.0200	5.8	20.0
Hexane	Ave	0.3524	0.4120		0.0234	0.0200	16.9	20.0
1,1-Dichloroethane	Ave	0.4048	0.5125	0.2000	0.0253	0.0200	26.6*	20.0
Vinyl acetate	Ave	0.4639	0.5502		0.0237	0.0200	18.6	20.0
2,2-Dichloropropane	Ave	0.2438	0.2614		0.0214	0.0200	7.2	20.0
2-Butanone	Ave	0.0472	0.0478	0.0100	0.0405	0.0400	1.1	50.0
cis-1,2-Dichloroethene	Ave	0.2891	0.3105	0.1000	0.0215	0.0200	7.4	20.0
Bromochloromethane	Ave	0.1945	0.2404		0.0247	0.0200	23.6*	20.0
Tetrahydrofuran	Lin1		0.1283		0.0501	0.0400	25.2*	20.0
Chloroform	Ave	0.4433	0.5160	0.2000	0.0233	0.0200	16.4	20.0
1,1,1-Trichloroethane	Ave	0.4174	0.4186	0.1000	0.0201	0.0200	0.3	20.0
Cyclohexane	Ave	0.3819	0.4462	0.1000	0.0234	0.0200	16.8	20.0
1,1-Dichloropropene	Ave	0.3519	0.4205		0.0239	0.0200	19.5	20.0
Carbon tetrachloride	Ave	0.4023	0.3896	0.1000	0.0194	0.0200	-3.2	20.0
Isobutyl alcohol	Ave	0.0110	0.0137		0.623	0.500	24.6*	20.0
Benzene	Ave	0.9518	1.120	0.5000	0.0235	0.0200	17.6	20.0
1,2-Dichloroethane	Ave	0.3600	0.4045	0.1000	0.0225	0.0200	12.3	20.0
n-Heptane	Lin1		0.2023		0.0183	0.0200	-8.5	20.0
Trichloroethene	Ave	0.3160	0.3141	0.1500	0.0199	0.0200	-0.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476858/4 Calibration Date: 03/15/2021 19:04

Instrument ID: A3UX19 Calib Start Date: 08/27/2018 17:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2018 19:23

Lab File ID: U1920960.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4590	0.4811	0.1000	0.0210	0.0200	4.8	20.0
1,2-Dichloropropane	Ave	0.2208	0.2710	0.1000	0.0246	0.0200	22.8*	20.0
1,4-Dioxane	Ave	0.0024	0.0037		0.616	0.400	54.0*	50.0
Dibromomethane	Ave	0.2271	0.1772		0.0156	0.0200	-22.0*	20.0
Bromodichloromethane	Ave	0.3479	0.3512	0.1500	0.0202	0.0200	0.9	20.0
2-Chloroethyl vinyl ether	Ave	0.1770	0.1988		0.0449	0.0400	12.3	20.0
cis-1,3-Dichloropropene	Ave	0.3865	0.4103	0.1500	0.0212	0.0200	6.2	50.0
4-Methyl-2-pentanone	Ave	0.3203	0.3791	0.0500	0.0473	0.0400	18.4	50.0
Toluene	Ave	1.352	1.485	0.4000	0.0220	0.0200	9.9	20.0
trans-1,3-Dichloropropene	Ave	0.4818	0.4823	0.1000	0.0200	0.0200	0.1	20.0
Ethyl methacrylate	Ave	0.4344	0.4487		0.0207	0.0200	3.3	20.0
1,1,2-Trichloroethane	Ave	0.2842	0.3017	0.1000	0.0212	0.0200	6.2	20.0
1,3-Dichloropropane	Ave	0.4802	0.5550		0.0231	0.0200	15.6	20.0
Tetrachloroethene	Ave	0.4313	0.3693	0.1500	0.0171	0.0200	-14.4	20.0
2-Hexanone	Ave	0.3149	0.3636	0.0500	0.0462	0.0400	15.5	50.0
Dibromochloromethane	Ave	0.3583	0.3335		0.0186	0.0200	-6.9	20.0
1,2-Dibromoethane	Ave	0.3346	0.3196		0.0191	0.0200	-4.5	20.0
Chlorobenzene	Ave	0.9253	0.9167	0.3000	0.0198	0.0200	-0.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3336	0.3246		0.0195	0.0200	-2.7	20.0
Ethylbenzene	Ave	0.4836	0.4999		0.0207	0.0200	3.4	20.0
m-Xylene & p-Xylene	Ave	0.5890	0.6084		0.0207	0.0200	3.3	20.0
o-Xylene	Ave	0.5597	0.5856		0.0209	0.0200	4.6	20.0
Styrene	Ave	0.9588	0.8776	0.3000	0.0183	0.0200	-8.5	20.0
Bromoform	Ave	0.2933	0.2358	0.1000	0.0161	0.0200	-19.6	20.0
Isopropylbenzene	Ave	1.503	1.548	0.1000	0.0206	0.0200	3.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7706	0.9358	0.3000	0.0243	0.0200	21.4*	20.0
Bromobenzene	Ave	0.7690	0.7018		0.0183	0.0200	-8.7	20.0
1,2,3-Trichloropropane	Ave	0.2921	0.3134		0.0215	0.0200	7.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2737	0.2884		0.0211	0.0200	5.4	20.0
n-Propylbenzene	Ave	0.7729	0.8132		0.0210	0.0200	5.2	20.0
2-Chlorotoluene	Ave	0.6541	0.6914		0.0211	0.0200	5.7	20.0
1,3,5-Trimethylbenzene	Ave	2.225	2.390		0.0215	0.0200	7.4	20.0
4-Chlorotoluene	Ave	0.7072	0.7174		0.0203	0.0200	1.4	20.0
tert-Butylbenzene	Ave	2.113	2.070		0.0196	0.0200	-2.0	20.0
1,2,4-Trimethylbenzene	Ave	2.256	2.405		0.0213	0.0200	6.6	20.0
sec-Butylbenzene	Ave	2.845	2.930		0.0206	0.0200	3.0	20.0
1,3-Dichlorobenzene	Ave	1.412	1.293	0.6000	0.0183	0.0200	-8.4	20.0
p-Isopropyltoluene	Ave	2.492	2.491		0.0200	0.0200	-0.0	20.0
1,4-Dichlorobenzene	Ave	1.459	1.317	0.5000	0.0181	0.0200	-9.7	20.0
n-Butylbenzene	Ave	2.050	2.155		0.0210	0.0200	5.1	20.0
1,2-Dichlorobenzene	Ave	1.282	1.247	0.4000	0.0194	0.0200	-2.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476858/4 Calibration Date: 03/15/2021 19:04

Instrument ID: A3UX19 Calib Start Date: 08/27/2018 17:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2018 19:23

Lab File ID: U1920960.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2450	0.2217	0.0500	0.0181	0.0200	-9.5	50.0
1,2,4-Trichlorobenzene	Ave	0.8550	0.6981	0.2000	0.0163	0.0200	-18.4	50.0
Hexachlorobutadiene	Ave	0.4392	0.2622		0.0119	0.0200	-40.3	50.0
Naphthalene	Ave	2.363	2.389		0.0202	0.0200	1.1	50.0
1,2,3-Trichlorobenzene	Ave	0.7677	0.6735		0.0175	0.0200	-12.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2692	0.2866		0.0213	0.0200	6.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3092	0.3470		0.0224	0.0200	12.2	20.0
Toluene-d8 (Surr)	Ave	1.199	1.300		0.0217	0.0200	8.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4513	0.4765		0.0211	0.0200	5.6	20.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: BFB1164.D BFB Injection Date: 01/07/2021

Instrument ID: A3UX9 BFB Injection Time: 11:58

Analysis Batch No.: 468309

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.3	
75	30.0 - 60.0 % of mass 95	52.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	79.4	
175	5.0 - 9.0 % of mass 174	5.9	(7.5) 1
176	95.0 - 101.0 % of mass 174	77.6	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-468309/8	UX992599.D	01/07/2021	12:44
	STD8260 240-468309/9	UX992600.D	01/07/2021	13:07
	STD8260 240-468309/10	UX992601.D	01/07/2021	13:29
	ICIS 240-468309/11	UX992602.D	01/07/2021	13:52
	STD8260 240-468309/12	UX992603.D	01/07/2021	14:14
	STD8260 240-468309/13	UX992604.D	01/07/2021	14:37
	STD8260 240-468309/14	UX992605.D	01/07/2021	14:59
	ICV 240-468309/15	UX992606.D	01/07/2021	15:22
	STDA9 240-468309/18	UX992609.D	01/07/2021	16:28
	STDA9 240-468309/19	UX992610.D	01/07/2021	16:51
	STDA9 240-468309/20	UX992611.D	01/07/2021	17:13
	STDA9 240-468309/21	UX992612.D	01/07/2021	17:36
	STDA9 240-468309/22	UX992613.D	01/07/2021	17:58
	STDA9 240-468309/23	UX992614.D	01/07/2021	18:20
	ICV 240-468309/24	UX992615.D	01/07/2021	18:43

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-468309/8	UX992599.D
Level 2	STD8260 240-468309/9	UX992600.D
Level 3	STD8260 240-468309/10	UX992601.D
Level 4	ICIS 240-468309/11	UX992602.D
Level 5	STD8260 240-468309/12	UX992603.D
Level 6	STD8260 240-468309/13	UX992604.D
Level 7	STD8260 240-468309/14	UX992605.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								
Dichlorodifluoromethane	+++++ 0.3507	0.2724 0.3676	0.3573	0.3371	0.3459	Ave		0.3385			0.1000	10.0		20.0			
Chloromethane	0.3414 0.3140	0.3374 0.3171	0.3428	0.3241	0.3279	Ave		0.3292			0.1000	3.5		20.0			
Vinyl chloride	0.2560 0.3407	0.2819 0.3425	0.3543	0.3400	0.3487	Ave		0.3234			0.1000	11.8		20.0			
Butadiene	0.2948 0.3166	0.2843 0.3189	0.3207	0.3085	0.3192	Ave		0.3090				4.6		20.0			
Bromomethane	0.2253 0.2766	0.2499 0.2951	0.2966	0.2851	0.2777	Ave		0.2723			0.0500	9.5		20.0			
Chloroethane	0.2204 0.2433	0.2274 0.2482	0.2643	0.2467	0.2415	Ave		0.2417			0.0500	5.9		20.0			
Dichlorofluoromethane	0.5431 0.5308	0.5696 0.5366	0.6075	0.5540	0.5461	Ave		0.5554				4.7		20.0			
Trichlorofluoromethane	0.4669 0.5449	0.4739 0.5526	0.5681	0.5351	0.5494	Ave		0.5273			0.1000	7.6		20.0			
Ethyl ether	0.2398 0.2501	0.2412 0.2516	0.2646	0.2534	0.2470	Ave		0.2497				3.3		20.0			
Acrolein	+++++ 0.0138	0.0129 0.0138	0.0121	0.0120	0.0140	Ave		0.0131				6.8		20.0			
1,1-Dichloroethene	0.3961 0.3910	0.4044 0.3929	0.4219	0.4029	0.3930	Ave		0.4003			0.1000	2.7		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1899 0.2525	0.2024 0.2597	0.2693	0.2529	0.2474	Ave		0.2392			0.0500	12.7		20.0			
Acetone	0.0703 0.0292	0.0548 0.0310	0.0265	0.0246	0.0310	Lin1	0.0405	0.0289			0.0100	14.3			0.9920		0.9900

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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								
Iodomethane	0.3430 0.4177	0.3731 0.4281	0.4346	0.4230	0.4259	Ave		0.4065				8.5		20.0			
Carbon disulfide	0.6300 0.7166	0.6460 0.7371	0.7604	0.7208	0.7271	Ave		0.7054			0.1000	6.9		20.0			
3-Chloro-1-propene	0.4138 0.3895	0.3827 0.3934	0.4190	0.3910	0.3923	Ave		0.3974				3.4		20.0			
Methyl acetate	0.2840 0.2950	0.3070 0.2928	0.2914	0.2766	0.2892	Ave		0.2909			0.1000	3.2		20.0			
Methylene Chloride	+++++ 0.3305	0.4631 0.3352	0.3649	0.3403	0.3371	Ave		0.3619			0.1000	14.1		20.0			
2-Methyl-2-propanol	0.0293 0.0350	0.0335 0.0345	0.0333	0.0301	0.0402	Ave		0.0337				10.6		20.0			
Acrylonitrile	0.1128 0.1314	0.1200 0.1292	0.1264	0.1312	0.1295	Ave		0.1258				5.5		20.0			
trans-1,2-Dichloroethene	0.3739 0.3777	0.3746 0.3730	0.4058	0.3800	0.3788	Ave		0.3806			0.1000	3.0		20.0			
Methyl tert-butyl ether	0.8889 0.9363	0.9037 0.9392	0.9171	0.8838	0.9488	Ave		0.9168			0.1000	2.8		20.0			
Hexane	0.1954 0.2721	0.2088 0.2719	0.2658	0.2636	0.2533	Ave		0.2473				12.8		20.0			
1,1-Dichloroethane	0.4474 0.4766	0.4908 0.4806	0.5117	0.4839	0.4840	Ave		0.4822			0.2000	4.0		20.0			
Vinyl acetate	0.4463 0.5132	0.4658 0.5157	0.5144	0.4882	0.4966	Ave		0.4915				5.5		20.0			
cis-1,2-Dichloroethene	0.3510 0.3279	0.3246 0.3368	0.3457	0.3373	0.3299	Ave		0.3362			0.1000	2.9		20.0			
2-Butanone (MEK)	0.0446 0.0511	0.0419 0.0503	0.0448	0.0430	0.0485	Ave		0.0463			0.0100	7.9		20.0			
2,2-Dichloropropane	0.3328 0.3132	0.2947 0.3257	0.3655	0.3447	0.3479	Ave		0.3321				7.1		20.0			
Chlorobromomethane	0.2019 0.2367	0.2514 0.2366	0.2602	0.2479	0.2460	Ave		0.2401				7.8		20.0			
Tetrahydrofuran	0.1146 0.1164	0.1206 0.1147	0.1058	0.1000	0.1138	Ave		0.1123				6.2		20.0			
Chloroform	0.4987 0.5194	0.4922 0.5190	0.5636	0.5299	0.5196	Ave		0.5203			0.2000	4.5		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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								
1,1,1-Trichloroethane	0.4090 0.4527	0.4025 0.4591	0.4752	0.4546	0.4696	Ave		0.4461			0.1000	6.4		20.0			
Cyclohexane	0.2882 0.3986	0.3192 0.4043	0.4203	0.3934	0.3869	Ave		0.3730			0.1000	13.2		20.0			
1,1-Dichloropropene	0.3205 0.4088	0.3459 0.4054	0.4247	0.4030	0.4051	Ave		0.3876				9.9		20.0			
Carbon tetrachloride	0.2944 0.3926	0.3219 0.3989	0.3958	0.3947	0.3981	Ave		0.3709			0.1000	11.8		20.0			
Isobutyl alcohol	0.0101 0.0128	0.0107 0.0122	0.0111	0.0108	0.0126	Ave		0.0115				9.3		20.0			
1,2-Dichloroethane	0.4145 0.4350	0.4172 0.4341	0.4589	0.4359	0.4322	Ave		0.4325			0.1000	3.4		20.0			
Benzene	1.0050 1.1402	1.1381 1.1362	1.1990	1.1386	1.1231	Ave		1.1258			0.5000	5.2		20.0			
n-Heptane	0.4439 0.1414	0.2928 0.1393	0.1485	0.1367	0.1316	Lin1	0.1542	0.1338				3.8			0.9990		0.9900
Trichloroethene	0.2899 0.3296	0.2929 0.3264	0.3371	0.3235	0.3194	Ave		0.3170			0.1500	5.8		20.0			
Methylcyclohexane	0.2360 0.3721	0.3145 0.3732	0.3752	0.3590	0.3562	Ave		0.3409			0.1000	14.9		20.0			
1,2-Dichloropropane	0.2178 0.2528	0.2346 0.2504	0.2537	0.2436	0.2466	Ave		0.2428			0.1000	5.3		20.0			
Dibromomethane	0.1947 0.2126	0.1811 0.2116	0.2003	0.1996	0.2059	Ave		0.2008				5.4		20.0			
1,4-Dioxane	+++++ 0.0036	0.0023 0.0034	0.0029	0.0034	0.0038	Ave		0.0032				16.8		20.0			
Dichlorobromomethane	0.3427 0.3814	0.3483 0.3850	0.3768	0.3670	0.3744	Ave		0.3679			0.1500	4.5		20.0			
2-Chloroethyl vinyl ether	0.1347 0.1996	0.1482 0.1857	0.1711	0.1687	0.1778	Ave		0.1694				13.0		20.0			
cis-1,3-Dichloropropene	0.3566 0.4627	0.3778 0.4524	0.4437	0.4365	0.4489	Ave		0.4255			0.1500	9.7		20.0			
4-Methyl-2-pentanone (MIBK)	0.2643 0.3568	0.3325 0.3374	0.3390	0.3271	0.3404	Ave		0.3282			0.0500	9.0		20.0			
Toluene	1.4374 1.5326	1.5084 1.5492	1.6147	1.5460	1.5412	Ave		1.5328			0.4000	3.5		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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								
trans-1,3-Dichloropropene	0.3753 0.5686	0.4878 0.5669	0.5559	0.5348	0.5506	Ave		0.5200			0.1000	13.4		20.0			
Ethyl methacrylate	0.3185 0.4794	0.3856 0.4677	0.4528	0.4591	0.4588	Ave		0.4317				13.5		20.0			
1,1,2-Trichloroethane	0.2600 0.3328	0.3372 0.3341	0.3378	0.3267	0.3261	Ave		0.3221			0.1000	8.6		20.0			
1,3-Dichloropropane	0.5316 0.5880	0.5736 0.5899	0.6022	0.5775	0.5735	Ave		0.5766				3.9		20.0			
Tetrachloroethene	0.3064 0.3755	0.3505 0.3807	0.3773	0.3745	0.3741	Ave		0.3627			0.1500	7.4		20.0			
2-Hexanone	0.2410 0.3082	0.2700 0.2910	0.2979	0.2933	0.2961	Ave		0.2854			0.0500	8.0		20.0			
Chlorodibromomethane	0.2798 0.3643	0.3228 0.3721	0.3390	0.3427	0.3568	Ave		0.3396				9.2		20.0			
Ethylene Dibromide	0.2628 0.3689	0.3250 0.3640	0.3633	0.3585	0.3592	Ave		0.3431				11.2		20.0			
Chlorobenzene	0.9422 1.0090	0.9970 0.9975	1.0346	0.9918	0.9796	Ave		0.9931			0.3000	2.8		20.0			
1,1,1,2-Tetrachloroethane	0.3071 0.3766	0.3329 0.3890	0.3702	0.3706	0.3826	Ave		0.3613				8.3		20.0			
Ethylbenzene	0.4670 0.5298	0.4449 0.5286	0.5473	0.5295	0.5272	Ave		0.5106				7.5		20.0			
m-Xylene & p-Xylene	0.5512 0.6532	0.6259 0.6582	0.6712	0.6533	0.6414	Ave		0.6363				6.3		20.0			
o-Xylene	0.5720 0.6722	0.6308 0.6690	0.6928	0.6637	0.6762	Ave		0.6538				6.2		20.0			
Styrene	0.7354 1.0020	0.8611 0.9878	0.9624	0.9482	0.9652	Ave		0.9231			0.3000	10.2		20.0			
Bromoform	0.1512 0.2438	0.1727 0.2485	0.2235	0.2245	0.2317	Ave		0.2137			0.1000	17.3		20.0			
Isopropylbenzene	1.3546 1.6265	1.4882 1.6550	1.7285	1.6573	1.6399	Ave		1.5928			0.1000	8.0		20.0			
1,1,2,2-Tetrachloroethane	0.8421 0.9194	0.8266 0.9134	0.8781	0.8645	0.9283	Ave		0.8818			0.3000	4.5		20.0			
Bromobenzene	0.6419 0.7870	0.6438 0.7783	0.7536	0.7270	0.7612	Ave		0.7275				8.4		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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								
trans-1,4-Dichloro-2-butene	+++++ 0.2874	0.2298 0.2798	0.2657	0.2695	0.2770	Ave		0.2682				7.6		20.0			
1,2,3-Trichloropropane	0.3252 0.3528	0.2893 0.3515	0.3531	0.3406	0.3512	Ave		0.3377				7.0		20.0			
N-Propylbenzene	0.6637 0.7967	0.6450 0.7944	0.7899	0.7579	0.7870	Ave		0.7478				8.7		20.0			
2-Chlorotoluene	0.6273 0.7301	0.7172 0.7297	0.7329	0.6981	0.7229	Ave		0.7083				5.3		20.0			
1,3,5-Trimethylbenzene	1.9648 2.4380	2.0860 2.4514	2.3862	2.3131	2.4375	Ave		2.2967				8.5		20.0			
4-Chlorotoluene	0.6002 0.7544	0.6834 0.7461	0.7547	0.7177	0.7293	Ave		0.7122				7.8		20.0			
tert-Butylbenzene	1.8039 2.2126	1.8156 2.1227	2.0058	2.2344	2.1657	Ave		2.0515				8.8		20.0			
1,2,4-Trimethylbenzene	2.0586 2.5219	2.1645 2.5204	2.5158	2.4347	2.5200	Ave		2.3909				8.2		20.0			
sec-Butylbenzene	0.4101 0.6113	0.4614 0.6170	0.5829	0.5762	0.5984	Ave		0.5511				14.8		20.0			
1,3-Dichlorobenzene	1.3857 1.4629	1.2851 1.4644	1.4793	1.4174	1.4563	Ave		1.4216			0.6000	4.8		20.0			
4-Isopropyltoluene	1.8752 2.4773	1.9239 2.4928	2.4416	2.3923	2.4587	Ave		2.2945				11.9		20.0			
1,4-Dichlorobenzene	1.2531 1.4952	1.3964 1.5133	1.5255	1.4796	1.5085	Ave		1.4531			0.5000	6.7		20.0			
n-Butylbenzene	1.5223 1.9364	1.7063 1.9610	1.9591	1.9193	1.9731	Ave		1.8539				9.3		20.0			
1,2-Dichlorobenzene	1.2082 1.4875	1.5181 1.5077	1.5599	1.4777	1.5181	Ave		1.4682			0.4000	8.0		20.0			
1,2-Dibromo-3-Chloropropane	0.1535 0.2617	0.1553 0.2645	0.2413	0.2458	0.2680	Lin1	-0.0788	0.2631			0.0500	10.0			0.9990		0.9900
1,2,4-Trichlorobenzene	0.7762 0.8605	0.8253 0.8816	0.8970	0.8667	0.9075	Ave		0.8593			0.2000	5.3		20.0			
Hexachlorobutadiene	0.2375 0.2714	0.2454 0.2840	0.2727	0.2742	0.2835	Ave		0.2670				6.8		20.0			
Naphthalene	2.8519 3.1382	2.8658 3.1827	3.2765	3.1306	3.3545	Ave		3.1143				6.2		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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								
1,2,3-Trichlorobenzene	0.7548 0.8094	0.7748 0.8304	0.8660	0.8095	0.8740	Ave		0.8170				5.4		20.0			
Dibromofluoromethane (Surr)	0.2804 0.2826	0.2839 0.2819	0.3079	0.2790	0.2836	Ave		0.2856				3.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3333 0.3581	0.3469 0.3555	0.3828	0.3588	0.3599	Ave		0.3565				4.2		20.0			
Toluene-d8 (Surr)	1.2828 1.3478	1.2823 1.3221	1.4026	1.3394	1.3343	Ave		1.3302				3.1		20.0			
4-Bromofluorobenzene (Surr)	0.4494 0.4760	0.4308 0.4638	0.4929	0.4735	0.4665	Ave		0.4647				4.3		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-468309/8	UX992599.D
Level 2	STD8260 240-468309/9	UX992600.D
Level 3	STD8260 240-468309/10	UX992601.D
Level 4	ICIS 240-468309/11	UX992602.D
Level 5	STD8260 240-468309/12	UX992603.D
Level 6	STD8260 240-468309/13	UX992604.D
Level 7	STD8260 240-468309/14	UX992605.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
Dichlorodifluoromethane	FB	Ave	+++++ 837294	13523 1324270	179162	369659	591236	+++++ 40.0	1.00 60.0	10.0	20.0	30.0
Chloromethane	FB	Ave	8546 749679	16750 1142358	171928	355355	560444	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Vinyl chloride	FB	Ave	6409 813417	13997 1233924	177650	372832	596015	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Butadiene	FB	Ave	7380 755960	14115 1148799	160804	338275	545589	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Bromomethane	FB	Ave	5640 660520	12406 1063038	148749	312623	474673	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Chloroethane	FB	Ave	5518 580877	11289 894126	132533	270482	412828	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Dichlorofluoromethane	FB	Ave	13595 1267459	28281 1933099	304663	607509	933396	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Trichlorofluoromethane	FB	Ave	11689 1301034	23531 1990685	284893	586770	939080	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Ethyl ether	FB	Ave	6002 597226	11977 906357	132674	277871	422141	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Acrolein	FB	Ave	+++++ 164665	3191 249103	30431	65815	119514	+++++ 200	5.00 300	50.0	100	150
1,1-Dichloroethene	FB	Ave	9916 933510	20080 1415192	211583	441742	671717	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	4755 602998	10049 935649	135044	277284	422882	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Acetone	FB	Lin1	3521 139453	5438 223348	26603	53967	105949	1.00 80.0	2.00 120	20.0	40.0	60.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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
Iodomethane	FB	Ave	8586 997257	18523 1542217	217947	463834	727906	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Carbon disulfide	FB	Ave	15771 1710964	32076 2655372	381331	790414	1242789	0.500 40.0	1.00 60.0	10.0	20.0	30.0
3-Chloro-1-propene	FB	Ave	10359 930043	19000 1417065	210114	428776	670459	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Methyl acetate	FB	Ave	14219 1408602	30485 2109607	292307	606533	988502	1.00 80.0	2.00 120	20.0	40.0	60.0
Methylene Chloride	FB	Ave	+++++ 789038	22995 1207583	182988	373191	576114	+++++ 40.0	1.00 60.0	10.0	20.0	30.0
2-Methyl-2-propanol	FB	Ave	7332 835763	16652 1242036	166858	329720	686826	5.00 400	10.0 600	100	200	300
Acrylonitrile	FB	Ave	28235 3136862	59564 4652703	633648	1438141	2212983	5.00 400	10.0 600	100	200	300
trans-1,2-Dichloroethene	FB	Ave	9361 901764	18600 1343818	203516	416732	647485	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Methyl tert-butyl ether	FB	Ave	22253 2235536	44871 3383116	459903	969069	1621690	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Hexane	FB	Ave	4891 649789	10369 979353	133295	289083	432892	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1-Dichloroethane	FB	Ave	11201 1137933	24368 1731431	256595	530628	827315	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Vinyl acetate	FB	Ave	11173 1225421	23128 1857835	257939	535367	848782	0.500 40.0	1.00 60.0	10.0	20.0	30.0
cis-1,2-Dichloroethene	FB	Ave	8786 782850	16116 1213167	173345	369896	563863	0.500 40.0	1.00 60.0	10.0	20.0	30.0
2-Butanone (MEK)	FB	Ave	2234 243971	4157 362687	44969	94277	165856	1.00 80.0	2.00 120	20.0	40.0	60.0
2,2-Dichloropropane	FB	Ave	8331 747923	14630 1173300	183283	377949	594600	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Chlorobromomethane	FB	Ave	5054 565096	12482 852421	130470	271822	420534	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Tetrahydrofuran	FB	Ave	5736 555803	11976 826479	106138	219413	388996	1.00 80.0	2.00 120	20.0	40.0	60.0
Chloroform	FB	Ave	12483 1240173	24437 1869719	282634	581026	888133	0.500 40.0	1.00 60.0	10.0	20.0	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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
1,1,1-Trichloroethane	FB	Ave	10239 1080844	19984 1653719	238306	498536	802571	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Cyclohexane	FB	Ave	7214 951624	15849 1456351	210758	431407	661272	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1-Dichloropropene	FB	Ave	8024 975987	17173 1460358	212953	441932	692330	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Carbon tetrachloride	FB	Ave	7370 937419	15983 1436935	198498	432762	680341	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Isobutyl alcohol	FB	Ave	6318 766547	13281 1097539	138790	295154	537952	12.5 1000	25.0 1500	250	500	750
1,2-Dichloroethane	FB	Ave	10377 1038654	20713 1563880	230120	477951	738741	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Benzene	FB	Ave	25158 2722516	56510 4092766	601269	1248554	1919650	0.500 40.0	1.00 60.0	10.0	20.0	30.0
n-Heptane	FB	Lin1	11112 337693	14539 501678	74492	149853	224884	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Trichloroethene	FB	Ave	7257 786999	14545 1175818	169044	354755	545866	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Methylcyclohexane	FB	Ave	5909 888451	15614 1344384	188169	393615	608870	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2-Dichloropropane	FB	Ave	5452 603710	11646 902110	127207	267093	421513	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Dibromomethane	FB	Ave	4873 507734	8992 762299	100461	218879	351977	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,4-Dioxane	FB	Ave	+++++ 170900	2282 242887	29009	75093	129317	+++++ 800	20.0 1200	200	400	600
Dichlorobromomethane	FB	Ave	8580 910595	17293 1386823	188969	402429	639963	0.500 40.0	1.00 60.0	10.0	20.0	30.0
2-Chloroethyl vinyl ether	FB	Ave	6746 952963	14720 1337809	171595	370042	607654	1.00 80.0	2.00 120	20.0	40.0	60.0
cis-1,3-Dichloropropene	FB	Ave	8928 1104882	18757 1629677	222482	478588	767316	0.500 40.0	1.00 60.0	10.0	20.0	30.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	13234 1703841	33021 2430765	339981	717269	1163674	1.00 80.0	2.00 120	20.0	40.0	60.0
Toluene	CBNZ d5	Ave	25049	54586	601503	1270161	1994135	0.500	1.00	10.0	20.0	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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
			2905987	4261803				40.0	60.0			
trans-1,3-Dichloropropene	CBNZ d5	Ave	6540 1078213	17653 1559646	207098	439363	712369	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Ethyl methacrylate	CBNZ d5	Ave	5551 909046	13952 1286507	168675	377178	593683	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1,2-Trichloroethane	CBNZ d5	Ave	4531 631024	12204 919071	125821	268408	421989	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,3-Dichloropropane	CBNZ d5	Ave	9264 1114971	20758 1622901	224346	474440	742093	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Tetrachloroethene	CBNZ d5	Ave	5340 711945	12682 1047339	140559	307718	484038	0.500 40.0	1.00 60.0	10.0	20.0	30.0
2-Hexanone	CBNZ d5	Ave	8400 1168734	19538 1601145	221937	481993	766334	1.00 80.0	2.00 120	20.0	40.0	60.0
Chlorodibromomethane	CBNZ d5	Ave	4876 690696	11681 1023743	126303	281530	461619	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Ethylene Dibromide	CBNZ d5	Ave	4579 699458	11761 1001359	135345	294533	464772	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Chlorobenzene	CBNZ d5	Ave	16419 1913272	36077 2744060	385396	814868	1267452	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	5351 714178	12045 1070263	137926	304448	495025	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Ethylbenzene	CBNZ d5	Ave	8138 1004500	16101 1454277	203900	435010	682095	0.500 40.0	1.00 60.0	10.0	20.0	30.0
m-Xylene & p-Xylene	CBNZ d5	Ave	9606	22648	250041	536748	829848	0.500	1.00	10.0	20.0	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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
			1238632	1810736				40.0	60.0			
o-Xylene	CBNZ d5	Ave	9969 1274660	22827 1840300	258087	545286	874999	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Styrene	CBNZ d5	Ave	12816 1900002	31162 2717281	358504	778987	1248842	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Bromoform	CBNZ d5	Ave	2635 462368	6251 683630	83265	184424	299810	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Isopropylbenzene	CBNZ d5	Ave	23606 3084153	53853 4552919	643893	1361614	2121814	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	8298 948368	16978 1379313	190473	411590	667082	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Bromobenzene	DCBd 4	Ave	6325 811804	13223 1175295	163465	346122	546980	0.500 40.0	1.00 60.0	10.0	20.0	30.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 296519	4720 422507	57625	128296	199062	+++++ 40.0	1.00 60.0	10.0	20.0	30.0
1,2,3-Trichloropropane	DCBd 4	Ave	3205 363933	5942 530818	76602	162154	252357	0.500 40.0	1.00 60.0	10.0	20.0	30.0
N-Propylbenzene	DCBd 4	Ave	6540 821800	13247 1199687	171349	360809	565553	0.500 40.0	1.00 60.0	10.0	20.0	30.0
2-Chlorotoluene	DCBd 4	Ave	6181 753088	14730 1101848	158989	332345	519479	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	19361 2514970	42844 3701837	517616	1101273	1751540	0.500 40.0	1.00 60.0	10.0	20.0	30.0
4-Chlorotoluene	DCBd 4	Ave	5914	14036	163715	341712	524029	0.500	1.00	10.0	20.0	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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
			778155	1126655				40.0	60.0			
tert-Butylbenzene	DCBd 4	Ave	17776 2282358	37289 3205499	435104	1063802	1556192	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	20286 2601458	44456 3806074	545715	1159165	1810833	0.500 40.0	1.00 60.0	10.0	20.0	30.0
sec-Butylbenzene	DCBd 4	Ave	4041 630625	9476 931795	126449	274340	429972	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,3-Dichlorobenzene	DCBd 4	Ave	13655 1509036	26393 2211446	320894	674834	1046490	0.500 40.0	1.00 60.0	10.0	20.0	30.0
4-Isopropyltoluene	DCBd 4	Ave	18478 2555499	39514 3764439	529628	1138961	1766729	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,4-Dichlorobenzene	DCBd 4	Ave	12348 1542423	28680 2285249	330908	704434	1084006	0.500 40.0	1.00 60.0	10.0	20.0	30.0
n-Butylbenzene	DCBd 4	Ave	15001 1997503	35045 2961345	424959	913763	1417830	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2-Dichlorobenzene	DCBd 4	Ave	11906 1534481	31179 2276724	338372	703535	1090858	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	1513 270007	3189 399495	52348	117020	192564	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	7649 887616	16951 1331350	194567	412639	652085	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Hexachlorobutadiene	DCBd 4	Ave	2340 279973	5040 428897	59164	130548	203711	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Naphthalene	DCBd 4	Ave	28103	58858	710728	1490475	2410458	0.500	1.00	10.0	20.0	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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
			3237195	4806255				40.0	60.0			
1,2,3-Trichlorobenzene	DCBd 4	Ave	7438	15913	187855	385383	628044	0.500	1.00	10.0	20.0	30.0
			834934	1253995				40.0	60.0			
Dibromofluoromethane (Surr)	FB	Ave	7018	14098	154402	305884	484645	0.500	1.00	10.0	20.0	30.0
			674681	1015320				40.0	60.0			
1,2-Dichloroethane-d4 (Surr)	FB	Ave	8343	17224	191978	393485	615059	0.500	1.00	10.0	20.0	30.0
			855050	1280730				40.0	60.0			
Toluene-d8 (Surr)	CBNZ d5	Ave	22355	46403	522519	1100433	1726508	0.500	1.00	10.0	20.0	30.0
			2555618	3637027				40.0	60.0			
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	7831	15589	183620	389037	603577	0.500	1.00	10.0	20.0	30.0
			902639	1275890				40.0	60.0			

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-468309/8	UX992599.D
Level 2	STD8260 240-468309/9	UX992600.D
Level 3	STD8260 240-468309/10	UX992601.D
Level 4	ICIS 240-468309/11	UX992602.D
Level 5	STD8260 240-468309/12	UX992603.D
Level 6	STD8260 240-468309/13	UX992604.D
Level 7	STD8260 240-468309/14	UX992605.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Acetone	3.3						50					
n-Heptane	1.2						50					
1,2-Dibromo-3-Chloropropane	17.6						50					

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 16:28 Calibration End Date: 01/07/2021 18:20 Calibration ID: 59895

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-468309/18	UX992609.D
Level 2	STDA9 240-468309/19	UX992610.D
Level 3	STDA9 240-468309/20	UX992611.D
Level 4	STDA9 240-468309/21	UX992612.D
Level 5	STDA9 240-468309/22	UX992613.D
Level 6	STDA9 240-468309/23	UX992614.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								
Acetonitrile	0.0263 +++++	0.0202	0.0314	0.0300	0.0243	Ave		0.0265				16.9		20.0			
Isopropyl ether	0.2688 0.2626	0.2636	0.2540	0.2604	0.2630	Ave		0.2621				1.8		20.0			
2-Chloro-1,3-butadiene	0.4133 0.4356	0.3979	0.4319	0.4421	0.4518	Ave		0.4288				4.6		20.0			
Tert-butyl ethyl ether	0.7708 0.8660	0.8736	0.8556	0.8751	0.8726	Ave		0.8523				4.8		20.0			
Ethyl acetate	0.3294 0.3097	0.2946	0.3456	0.3264	0.3068	Ave		0.3188				5.8		20.0			
Propionitrile	0.0422 0.0489	0.0367	0.0504	0.0464	0.0500	Ave		0.0458				11.8		20.0			
Methacrylonitrile	0.1991 0.2159	0.1920	0.2266	0.2177	0.2197	Ave		0.2118				6.3		20.0			
Isooctane	0.4020 0.5082	0.4232	0.4826	0.5243	0.5285	Ave		0.4781				11.2		20.0			
Tert-amyl methyl ether	0.9223 0.9795	0.8841	0.9292	0.9639	1.0060	Ave		0.9475				4.6		20.0			
n-Butanol	0.0069 0.0103	0.0090	0.0119	0.0111	0.0106	Ave		0.0100				18.0		20.0			
Ethyl acrylate	0.2599 0.3523	0.2832	0.3860	0.3689	0.3412	Ave		0.3319				15.0		20.0			
Methyl methacrylate	0.2150 0.2539	0.2092	0.2787	0.2632	0.2542	Ave		0.2457				11.2		20.0			
2-Nitropropane	0.0779 0.0971	0.0754	0.0930	0.0956	0.0916	Ave		0.0884				10.6		20.0			
n-Butyl acetate	0.4584 0.5605	0.5108	0.5884	0.5681	0.5674	Ave		0.5423				9.0		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 16:28 Calibration End Date: 01/07/2021 18:20 Calibration ID: 59895

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-Chlorohexane	0.4385 0.3930	0.3973	0.4266	0.4151	0.4278	Ave		0.4164				4.3		20.0			
Cyclohexanone	0.0225 0.0278	0.0258	0.0309	0.0296	0.0288	Ave		0.0276				11.0		20.0			
Pentachloroethane	+++++ 0.1478	0.1467	0.1037	0.1874	0.1196	Ave		0.1410				22.6	*	20.0			
1,2,3-Trimethylbenzene	2.2999 2.7170	2.2555	2.7100	2.7588	2.8462	Ave		2.5979				9.7		20.0			
Benzyl chloride	0.2002 0.3972	0.2891	0.3462	0.3776	0.3966	Lin1	-0.111	0.3937				6.2			0.9990		0.9900
1,3,5-Trichlorobenzene	0.8936 0.9859	0.8748	0.9436	0.9634	1.0232	Ave		0.9474				5.9		20.0			
2-Methylnaphthalene	1.1938 1.8359	1.1220	1.4706	1.6348	1.7643	Ave		1.5036				19.7		20.0			
1-Methylnaphthalene	1.0906 1.6735	1.1197	1.3999	1.5270	1.6099	Ave		1.4034				17.7		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 16:28 Calibration End Date: 01/07/2021 18:20 Calibration ID: 59895

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-468309/18	UX992609.D
Level 2	STDA9 240-468309/19	UX992610.D
Level 3	STDA9 240-468309/20	UX992611.D
Level 4	STDA9 240-468309/21	UX992612.D
Level 5	STDA9 240-468309/22	UX992613.D
Level 6	STDA9 240-468309/23	UX992614.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	6646 +++++	10118	169243	324433	518219	5.00 +++++	10.0	100	200	400
Isopropyl ether	FB	Ave	6791 895107	13173	137043	281555	560654	0.500 60.0	1.00	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	10441 1485000	19881	232973	477973	963074	0.500 60.0	1.00	10.0	20.0	40.0
Tert-butyl ethyl ether	FB	Ave	19471 2952358	43653	461574	946167	1860099	0.500 60.0	1.00	10.0	20.0	40.0
Ethyl acetate	FB	Ave	16642 2111686	29445	372891	705729	1307831	1.00 120	2.00	20.0	40.0	80.0
Propionitrile	FB	Ave	10663 1666987	18321	271820	501483	1065534	5.00 600	10.0	100	200	400
Methacrylonitrile	FB	Ave	50298 7360667	95934	1222376	2353652	4682755	5.00 600	10.0	100	200	400
Isooctane	FB	Ave	10154 1732383	21147	260328	566829	1126500	0.500 60.0	1.00	10.0	20.0	40.0
Tert-amyl methyl ether	FB	Ave	23297 3339047	44176	501252	1042135	2144398	0.500 60.0	1.00	10.0	20.0	40.0
n-Butanol	FB	Ave	4333 876320	11279	160325	300118	565771	12.5 1500	25.0	250	500	1000
Ethyl acrylate	FB	Ave	6564 1200864	14150	208210	398885	727347	0.500 60.0	1.00	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	10860 1730907	20904	300740	569235	1083841	1.00 120	2.00	20.0	40.0	80.0
2-Nitropropane	FB	Ave	3935 661768	7533	100371	206802	390629	1.00 120	2.00	20.0	40.0	80.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 16:28 Calibration End Date: 01/07/2021 18:20 Calibration ID: 59895

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Butyl acetate	CBNZ d5	Ave	8107 1380668	17544	236945	455644	856128	0.500 60.0	1.00	10.0	20.0	40.0
1-Chlorohexane	CBNZ d5	Ave	7755 967884	13645	171804	332946	645489	0.500 60.0	1.00	10.0	20.0	40.0
Cyclohexanone	DCBd 4	Ave	2289 367585	5154	66411	127436	235178	5.00 600	10.0	100	200	400
Pentachloroethane	DCBd 4	Ave	+++++ 391245	5850	44555	161121	195530	+++++ 120	2.00	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	23447 3595946	44975	582133	1186130	2325592	0.500 60.0	1.00	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Lin1	2041 525670	5764	74365	162365	324081	0.500 60.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	9110 1304793	17443	202693	414218	836036	0.500 60.0	1.00	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	24342 4859479	44746	631807	1405745	2883221	1.00 120	2.00	20.0	40.0	80.0
1-Methylnaphthalene	DCBd 4	Ave	22238 4429817	44655	601422	1313019	2630928	1.00 120	2.00	20.0	40.0	80.0

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 16:28 Calibration End Date: 01/07/2021 18:20 Calibration ID: 59895

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-468309/18	UX992609.D
Level 2	STDA9 240-468309/19	UX992610.D
Level 3	STDA9 240-468309/20	UX992611.D
Level 4	STDA9 240-468309/21	UX992612.D
Level 5	STDA9 240-468309/22	UX992613.D
Level 6	STDA9 240-468309/23	UX992614.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Benzyl chloride	7.4						50					

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-468309/15 Calibration Date: 01/07/2021 15:22

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX992606.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3385	0.2963	0.1000	0.0175	0.0200	-12.5	30.0
Chloromethane	Ave	0.3292	0.2933	0.1000	0.0178	0.0200	-10.9	30.0
Butadiene	Ave	0.3090	0.2811		0.0182	0.0200	-9.0	30.0
Vinyl chloride	Ave	0.3234	0.3297	0.1000	0.0204	0.0200	1.9	30.0
Bromomethane	Ave	0.2723	0.2646	0.0500	0.0194	0.0200	-2.8	30.0
Chloroethane	Ave	0.2417	0.2306	0.0500	0.0191	0.0200	-4.6	30.0
Dichlorofluoromethane	Ave	0.5554	0.5322		0.0192	0.0200	-4.2	30.0
Trichlorofluoromethane	Ave	0.5273	0.5110	0.1000	0.0194	0.0200	-3.1	30.0
Ethyl ether	Ave	0.2497	0.2383		0.0191	0.0200	-4.6	30.0
Acrolein	Ave	0.0131	0.0155		0.118	0.100	18.0	30.0
1,1-Dichloroethene	Ave	0.4003	0.3924	0.1000	0.0196	0.0200	-2.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2392	0.2445	0.0500	0.0204	0.0200	2.2	30.0
Acetone	Lin1		0.0313	0.0100	0.0419	0.0400	4.8	50.0
Iodomethane	Ave	0.4065	0.4241		0.0209	0.0200	4.3	30.0
Carbon disulfide	Ave	0.7054	0.7205	0.1000	0.0204	0.0200	2.1	30.0
3-Chloro-1-propene	Ave	0.3974	0.3703		0.0186	0.0200	-6.8	30.0
Methyl acetate	Ave	0.2909	0.2685	0.1000	0.0369	0.0400	-7.7	50.0
Methylene Chloride	Ave	0.3619	0.3215	0.1000	0.0178	0.0200	-11.2	50.0
2-Methyl-2-propanol	Ave	0.0337	0.0400		0.238	0.200	18.8	30.0
Acrylonitrile	Ave	0.1258	0.1294		0.206	0.200	2.9	30.0
Methyl tert-butyl ether	Ave	0.9168	0.8931	0.1000	0.0195	0.0200	-2.6	30.0
trans-1,2-Dichloroethene	Ave	0.3806	0.3754	0.1000	0.0197	0.0200	-1.4	30.0
Hexane	Ave	0.2473	0.2658		0.0215	0.0200	7.5	30.0
1,1-Dichloroethane	Ave	0.4822	0.4549	0.2000	0.0189	0.0200	-5.7	30.0
Vinyl acetate	Ave	0.4915	0.4988		0.0203	0.0200	1.5	30.0
2-Butanone (MEK)	Ave	0.0463	0.0488	0.0100	0.0421	0.0400	5.3	50.0
cis-1,2-Dichloroethene	Ave	0.3362	0.3208	0.1000	0.0191	0.0200	-4.6	30.0
2,2-Dichloropropane	Ave	0.3321	0.3135		0.0189	0.0200	-5.6	30.0
Chlorobromomethane	Ave	0.2401	0.2292		0.0191	0.0200	-4.5	30.0
Chloroform	Ave	0.5203	0.4901	0.2000	0.0188	0.0200	-5.8	30.0
Tetrahydrofuran	Ave	0.1123	0.1159		0.0413	0.0400	3.3	30.0
1,1,1-Trichloroethane	Ave	0.4461	0.4382	0.1000	0.0196	0.0200	-1.8	30.0
Cyclohexane	Ave	0.3730	0.3855	0.1000	0.0207	0.0200	3.3	30.0
1,1-Dichloropropene	Ave	0.3876	0.3757		0.0194	0.0200	-3.1	30.0
Carbon tetrachloride	Ave	0.3709	0.3718	0.1000	0.0200	0.0200	0.2	30.0
Isobutyl alcohol	Ave	0.0115	0.0133		0.581	0.500	16.2	30.0
1,2-Dichloroethane	Ave	0.4325	0.4106	0.1000	0.0190	0.0200	-5.1	30.0
Benzene	Ave	1.126	1.086	0.5000	0.0193	0.0200	-3.5	30.0
n-Heptane	Lin1		0.1479		0.0210	0.0200	4.8	30.0
Trichloroethene	Ave	0.3170	0.3130	0.1500	0.0197	0.0200	-1.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-468309/15 Calibration Date: 01/07/2021 15:22

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX992606.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2428	0.2454	0.1000	0.0202	0.0200	1.1	30.0
Methylcyclohexane	Ave	0.3409	0.3519	0.1000	0.0206	0.0200	3.2	30.0
1,4-Dioxane	Ave	0.0032	0.0035		0.430	0.400	7.6	50.0
Dibromomethane	Ave	0.2008	0.1999		0.0199	0.0200	-0.5	30.0
Dichlorobromomethane	Ave	0.3679	0.3608	0.1500	0.0196	0.0200	-1.9	30.0
2-Chloroethyl vinyl ether	Ave	0.1694	0.1867		0.0220	0.0200	10.2	30.0
cis-1,3-Dichloropropene	Ave	0.4255	0.4407	0.1500	0.0207	0.0200	3.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3282	0.3339	0.0500	0.0407	0.0400	1.7	50.0
Toluene	Ave	1.533	1.474	0.4000	0.0192	0.0200	-3.8	30.0
trans-1,3-Dichloropropene	Ave	0.5200	0.5070	0.1000	0.0195	0.0200	-2.5	30.0
Ethyl methacrylate	Ave	0.4317	0.4624		0.0214	0.0200	7.1	30.0
1,1,2-Trichloroethane	Ave	0.3221	0.3163	0.1000	0.0196	0.0200	-1.8	30.0
1,3-Dichloropropane	Ave	0.5766	0.5584		0.0194	0.0200	-3.2	30.0
Tetrachloroethene	Ave	0.3627	0.3677	0.1500	0.0203	0.0200	1.4	30.0
2-Hexanone	Ave	0.2854	0.2899	0.0500	0.0406	0.0400	1.6	50.0
Chlorodibromomethane	Ave	0.3396	0.3383		0.0199	0.0200	-0.4	30.0
Ethylene Dibromide	Ave	0.3431	0.3439		0.0200	0.0200	0.2	30.0
Chlorobenzene	Ave	0.9931	0.9620	0.3000	0.0194	0.0200	-3.1	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3613	0.3473		0.0192	0.0200	-3.9	30.0
Ethylbenzene	Ave	0.5106	0.5004		0.0196	0.0200	-2.0	30.0
m-Xylene & p-Xylene	Ave	0.6363	0.6285		0.0198	0.0200	-1.2	30.0
o-Xylene	Ave	0.6538	0.6294		0.0193	0.0200	-3.7	30.0
Styrene	Ave	0.9231	1.017	0.3000	0.0220	0.0200	10.1	30.0
Bromoform	Ave	0.2137	0.2260	0.1000	0.0211	0.0200	5.7	30.0
Isopropylbenzene	Ave	1.593	1.586	0.1000	0.0199	0.0200	-0.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8818	0.8679	0.3000	0.0197	0.0200	-1.6	30.0
1,2,3-Trichloropropane	Ave	0.3377	0.3431		0.0203	0.0200	1.6	30.0
Bromobenzene	Ave	0.7275	0.7736		0.0213	0.0200	6.3	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2682	0.2864		0.0214	0.0200	6.8	30.0
N-Propylbenzene	Ave	0.7478	0.7764		0.0208	0.0200	3.8	30.0
2-Chlorotoluene	Ave	0.7083	0.7134		0.0201	0.0200	0.7	30.0
1,3,5-Trimethylbenzene	Ave	2.297	2.354		0.0205	0.0200	2.5	30.0
4-Chlorotoluene	Ave	0.7122	0.7328		0.0206	0.0200	2.9	30.0
tert-Butylbenzene	Ave	2.052	2.111		0.0206	0.0200	2.9	30.0
1,2,4-Trimethylbenzene	Ave	2.391	2.424		0.0203	0.0200	1.4	30.0
sec-Butylbenzene	Ave	0.5511	0.5970		0.0217	0.0200	8.3	30.0
1,3-Dichlorobenzene	Ave	1.422	1.416	0.6000	0.0199	0.0200	-0.4	30.0
4-Isopropyltoluene	Ave	2.295	2.393		0.0209	0.0200	4.3	30.0
1,4-Dichlorobenzene	Ave	1.453	1.463	0.5000	0.0201	0.0200	0.7	30.0
n-Butylbenzene	Ave	1.854	1.908		0.0206	0.0200	2.9	30.0
1,2-Dichlorobenzene	Ave	1.468	1.411	0.4000	0.0192	0.0200	-3.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-468309/15 Calibration Date: 01/07/2021 15:22

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX992606.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin1		0.2453	0.0500	0.0189	0.0200	-5.3	50.0
1,2,4-Trichlorobenzene	Ave	0.8593	0.8649	0.2000	0.0201	0.0200	0.7	50.0
Hexachlorobutadiene	Ave	0.2670	0.3001		0.0225	0.0200	12.4	50.0
Naphthalene	Ave	3.114	3.047		0.0196	0.0200	-2.2	50.0
1,2,3-Trichlorobenzene	Ave	0.8170	0.7994		0.0196	0.0200	-2.1	30.0
Dibromofluoromethane (Surr)	Ave	0.2856	0.2800		0.0196	0.0200	-1.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3565	0.3551		0.0199	0.0200	-0.4	30.0
Toluene-d8 (Surr)	Ave	1.330	1.336		0.0201	0.0200	0.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4647	0.4766		0.0205	0.0200	2.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-468309/24 Calibration Date: 01/07/2021 18:43

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX992615.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2856	0.2873		0.0201	0.0200	0.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3565	0.3551		0.0199	0.0200	-0.4	30.0
Toluene-d8 (Surr)	Ave	1.330	1.337		0.0201	0.0200	0.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4647	0.4679		0.0201	0.0200	0.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-468309/24 Calibration Date: 01/07/2021 18:43

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 16:28

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 18:20

Lab File ID: UX992615.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0265	0.0316		0.239	0.200	19.4	30.0
Isopropyl ether	Ave	0.2621	0.2797		0.0213	0.0200	6.7	30.0
2-Chloro-1,3-butadiene	Ave	0.4288	0.4678		0.0218	0.0200	9.1	30.0
Tert-butyl ethyl ether	Ave	0.8523	0.9466		0.0222	0.0200	11.1	30.0
Ethyl acetate	Ave	0.3188	0.3030		0.0380	0.0400	-4.9	30.0
Propionitrile	Ave	0.0458	0.0446		0.195	0.200	-2.4	30.0
Methacrylonitrile	Ave	0.2118	0.2143		0.202	0.200	1.2	30.0
Tert-amyl methyl ether	Ave	0.9475	1.044		0.0220	0.0200	10.2	30.0
n-Butanol	Ave	0.0100	0.0106		0.533	0.500	6.6	30.0
Ethyl acrylate	Ave	0.3319	0.3426		0.0206	0.0200	3.2	30.0
Methyl methacrylate	Ave	0.2457	0.2511		0.0409	0.0400	2.2	30.0
2-Nitropropane	Ave	0.0884	0.0851		0.0385	0.0400	-3.7	30.0
n-Butyl acetate	Ave	0.5423	0.5957		0.0220	0.0200	9.9	30.0
1-Chlorohexane	Ave	0.4164	0.4417		0.0212	0.0200	6.1	30.0
Cyclohexanone	Ave	0.0276	0.0263		0.191	0.200	-4.6	30.0
Pentachloroethane	Ave	0.1410	0.1299		0.0368	0.0400	-7.9	30.0
1,2,3-Trimethylbenzene	Ave	2.598	2.835		0.0218	0.0200	9.1	30.0
Benzyl chloride	Lin1		0.3448		0.0178	0.0200	-11.0	30.0
1,3,5-Trichlorobenzene	Ave	0.9474	1.018		0.0215	0.0200	7.4	30.0
2-Methylnaphthalene	Ave	1.504	1.598		0.0425	0.0400	6.3	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: BFB1220.D BFB Injection Date: 03/17/2021

Instrument ID: A3UX9 BFB Injection Time: 07:33

Analysis Batch No.: 477127

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	47.7	
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	Greater than 50% of mass 95	83.8	
175	5.0 - 9.0 % of mass 174	6.1	(7.3) 1
176	95.0 - 101.0 % of mass 174	80.3	(95.9) 1
177	5.0 - 9.0 % of mass 176	5.1	(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 240-477127/3	UX993993.D	03/17/2021	7:58
	CCV 240-477127/4	UX993994.D	03/17/2021	8:21
	MB 240-477127/8	UX993998.D	03/17/2021	9:50
	LCS 240-477127/10	UX994000.D	03/17/2021	10:36
MSA-SW42A-030821	240-145599-17	UX994003.D	03/17/2021	12:01
MSA-SW42B-030821	240-145599-18	UX994004.D	03/17/2021	12:23
MSA-SW42C-030821	240-145599-19	UX994005.D	03/17/2021	12:46
MSA-SW46A-030821	240-145599-30	UX994006.D	03/17/2021	13:08
	240-145830-A-2 MS	UX994019.D	03/17/2021	18:02
	240-145830-A-2 MSD	UX994020.D	03/17/2021	18:25

VINYL CHLORIDE ONLY

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-477127/3 Calibration Date: 03/17/2021 07:58

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX993993.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3385	0.3181	0.1000	0.0188	0.0200	-6.0	20.0
Chloromethane	Ave	0.3292	0.2910	0.1000	0.0177	0.0200	-11.6	20.0
Vinyl chloride	Ave	0.3234	0.2915	0.1000	0.0180	0.0200	-9.9	20.0
Butadiene	Ave	0.3090	0.2641		0.0171	0.0200	-14.5	20.0
Bromomethane	Ave	0.2723	0.2185	0.0500	0.0160	0.0200	-19.8	20.0
Chloroethane	Ave	0.2417	0.2048	0.0500	0.0169	0.0200	-15.3	20.0
Dichlorofluoromethane	Ave	0.5554	0.4551		0.0164	0.0200	-18.1	20.0
Trichlorofluoromethane	Ave	0.5273	0.4374	0.1000	0.0166	0.0200	-17.0	20.0
Ethyl ether	Ave	0.2497	0.2570		0.0206	0.0200	3.0	20.0
Acrolein	Ave	0.0131	0.0183		0.140	0.100	39.7*	20.0
1,1-Dichloroethene	Ave	0.4003	0.4172	0.1000	0.0208	0.0200	4.2	20.0
Acetone	Lin1		0.0298	0.0100	0.0398	0.0400	-0.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2392	0.2806	0.0500	0.0235	0.0200	17.3	20.0
Iodomethane	Ave	0.4065	0.4496		0.0221	0.0200	10.6	20.0
Carbon disulfide	Ave	0.7054	0.8242	0.1000	0.0234	0.0200	16.8	20.0
3-Chloro-1-propene	Ave	0.3974	0.4169		0.0210	0.0200	4.9	20.0
Methyl acetate	Ave	0.2909	0.2827	0.1000	0.0389	0.0400	-2.8	50.0
Methylene Chloride	Ave	0.3619	0.3391	0.1000	0.0187	0.0200	-6.3	50.0
2-Methyl-2-propanol	Ave	0.0337	0.0361		0.214	0.200	7.1	20.0
Acrylonitrile	Ave	0.1258	0.1603		0.255	0.200	27.5*	20.0
Methyl tert-butyl ether	Ave	0.9168	0.9680	0.1000	0.0211	0.0200	5.6	20.0
trans-1,2-Dichloroethene	Ave	0.3806	0.4005	0.1000	0.0210	0.0200	5.2	20.0
Hexane	Ave	0.2473	0.3295		0.0266	0.0200	33.2*	20.0
1,1-Dichloroethane	Ave	0.4822	0.5064	0.2000	0.0210	0.0200	5.0	20.0
Vinyl acetate	Ave	0.4915	0.7000		0.0285	0.0200	42.4*	20.0
2-Butanone (MEK)	Ave	0.0463	0.0531	0.0100	0.0459	0.0400	14.6	50.0
cis-1,2-Dichloroethene	Ave	0.3362	0.3429	0.1000	0.0204	0.0200	2.0	20.0
2,2-Dichloropropane	Ave	0.3321	0.3115		0.0188	0.0200	-6.2	20.0
Chlorobromomethane	Ave	0.2401	0.2502		0.0208	0.0200	4.2	20.0
Tetrahydrofuran	Ave	0.1123	0.1181		0.0421	0.0400	5.2	20.0
Chloroform	Ave	0.5203	0.5290	0.2000	0.0203	0.0200	1.7	20.0
1,1,1-Trichloroethane	Ave	0.4461	0.4576	0.1000	0.0205	0.0200	2.6	20.0
Cyclohexane	Ave	0.3730	0.4584	0.1000	0.0246	0.0200	22.9*	20.0
1,1-Dichloropropene	Ave	0.3876	0.4297		0.0222	0.0200	10.9	20.0
Carbon tetrachloride	Ave	0.3709	0.3931	0.1000	0.0212	0.0200	6.0	20.0
Isobutyl alcohol	Ave	0.0115	0.0151		0.656	0.500	31.3*	20.0
1,2-Dichloroethane	Ave	0.4325	0.4274	0.1000	0.0198	0.0200	-1.2	20.0
Benzene	Ave	1.126	1.238	0.5000	0.0220	0.0200	10.0	20.0
n-Heptane	Lin1		0.1744		0.0249	0.0200	24.6*	20.0
Trichloroethene	Ave	0.3170	0.3446	0.1500	0.0217	0.0200	8.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-477127/3 Calibration Date: 03/17/2021 07:58

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX993993.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3409	0.4217	0.1000	0.0247	0.0200	23.7*	20.0
1,2-Dichloropropane	Ave	0.2428	0.2717	0.1000	0.0224	0.0200	11.9	20.0
1,4-Dioxane	Ave	0.0032	0.0041		0.508	0.400	27.1	50.0
Dibromomethane	Ave	0.2008	0.2213		0.0220	0.0200	10.2	20.0
Dichlorobromomethane	Ave	0.3679	0.3864	0.1500	0.0210	0.0200	5.0	20.0
2-Chloroethyl vinyl ether	Ave	0.1694	0.2164		0.0511	0.0400	27.7*	20.0
cis-1,3-Dichloropropene	Ave	0.4255	0.4950	0.1500	0.0233	0.0200	16.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3282	0.3806	0.0500	0.0464	0.0400	16.0	50.0
Toluene	Ave	1.533	1.600	0.4000	0.0209	0.0200	4.4	20.0
trans-1,3-Dichloropropene	Ave	0.5200	0.5845	0.1000	0.0225	0.0200	12.4	20.0
Ethyl methacrylate	Ave	0.4317	0.5199		0.0241	0.0200	20.4*	20.0
1,1,2-Trichloroethane	Ave	0.3221	0.3379	0.1000	0.0210	0.0200	4.9	20.0
1,3-Dichloropropane	Ave	0.5766	0.6150		0.0213	0.0200	6.7	20.0
Tetrachloroethene	Ave	0.3627	0.3883	0.1500	0.0214	0.0200	7.1	20.0
2-Hexanone	Ave	0.2854	0.3340	0.0500	0.0468	0.0400	17.1	50.0
Chlorodibromomethane	Ave	0.3396	0.3480		0.0205	0.0200	2.5	20.0
Ethylene Dibromide	Ave	0.3431	0.3764		0.0219	0.0200	9.7	20.0
Chlorobenzene	Ave	0.9931	1.041	0.3000	0.0210	0.0200	4.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3613	0.3645		0.0202	0.0200	0.9	20.0
Ethylbenzene	Ave	0.5106	0.5453		0.0214	0.0200	6.8	20.0
m-Xylene & p-Xylene	Ave	0.6363	0.6914		0.0217	0.0200	8.7	20.0
o-Xylene	Ave	0.6538	0.6759		0.0207	0.0200	3.4	20.0
Styrene	Ave	0.9231	1.024	0.3000	0.0222	0.0200	10.9	20.0
Bromoform	Ave	0.2137	0.2367	0.1000	0.0222	0.0200	10.8	20.0
Isopropylbenzene	Ave	1.593	1.638	0.1000	0.0206	0.0200	2.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8818	0.9773	0.3000	0.0222	0.0200	10.8	20.0
1,2,3-Trichloropropane	Ave	0.3377	0.3748		0.0222	0.0200	11.0	20.0
Bromobenzene	Ave	0.7275	0.8126		0.0223	0.0200	11.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2682	0.3158		0.0235	0.0200	17.7	20.0
N-Propylbenzene	Ave	0.7478	0.8219		0.0220	0.0200	9.9	20.0
2-Chlorotoluene	Ave	0.7083	0.7388		0.0209	0.0200	4.3	20.0
1,3,5-Trimethylbenzene	Ave	2.297	2.438		0.0212	0.0200	6.1	20.0
4-Chlorotoluene	Ave	0.7122	0.7720		0.0217	0.0200	8.4	20.0
tert-Butylbenzene	Ave	2.052	2.082		0.0203	0.0200	1.5	20.0
1,2,4-Trimethylbenzene	Ave	2.391	2.520		0.0211	0.0200	5.4	20.0
sec-Butylbenzene	Ave	0.5511	0.5980		0.0217	0.0200	8.5	20.0
1,3-Dichlorobenzene	Ave	1.422	1.488	0.6000	0.0209	0.0200	4.6	20.0
4-Isopropyltoluene	Ave	2.295	2.464		0.0215	0.0200	7.4	20.0
1,4-Dichlorobenzene	Ave	1.453	1.535	0.5000	0.0211	0.0200	5.6	20.0
n-Butylbenzene	Ave	1.854	1.966		0.0212	0.0200	6.0	20.0
1,2-Dichlorobenzene	Ave	1.468	1.479	0.4000	0.0201	0.0200	0.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-477127/3 Calibration Date: 03/17/2021 07:58

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX993993.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin1		0.2528	0.0500	0.0195	0.0200	-2.4	50.0
1,2,4-Trichlorobenzene	Ave	0.8593	0.8110	0.2000	0.0189	0.0200	-5.6	50.0
Hexachlorobutadiene	Ave	0.2670	0.2679		0.0201	0.0200	0.3	50.0
Naphthalene	Ave	3.114	2.966		0.0190	0.0200	-4.8	50.0
1,2,3-Trichlorobenzene	Ave	0.8170	0.7549		0.0185	0.0200	-7.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2856	0.2614		0.0148	0.0162	-8.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3565	0.3222		0.0147	0.0162	-9.6	20.0
Toluene-d8 (Surr)	Ave	1.330	1.331		0.0162	0.0162	0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4647	0.5487		0.0192	0.0162	18.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCV 240-477127/4 Calibration Date: 03/17/2021 08:21

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 16:28

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 18:20

Lab File ID: UX993994.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0265	0.0382		0.289	0.200	44.5*	20.0
Isopropyl ether	Ave	0.2621	0.2441		0.0186	0.0200	-6.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4288	0.3969		0.0185	0.0200	-7.4	20.0
Tert-butyl ethyl ether	Ave	0.8523	0.7764		0.0182	0.0200	-8.9	20.0
Ethyl acetate	Ave	0.3188	0.3367		0.0423	0.0400	5.6	20.0
Propionitrile	Ave	0.0458	0.0524		0.229	0.200	14.5	20.0
Methacrylonitrile	Ave	0.2118	0.2124		0.201	0.200	0.3	20.0
Tert-amyl methyl ether	Ave	0.9475	0.8714		0.0184	0.0200	-8.0	20.0
n-Butanol	Ave	0.0100	0.0116		0.581	0.500	16.2	20.0
Ethyl acrylate	Ave	0.3319	0.4200		0.0253	0.0200	26.5*	20.0
Methyl methacrylate	Ave	0.2457	0.2763		0.0450	0.0400	12.5	20.0
2-Nitropropane	Ave	0.0884	0.0896		0.0405	0.0400	1.3	20.0
n-Butyl acetate	Ave	0.5423	0.5577		0.0206	0.0200	2.8	20.0
1-Chlorohexane	Ave	0.4164	0.3956		0.0190	0.0200	-5.0	20.0
Cyclohexanone	Ave	0.0276	0.0304		0.221	0.200	10.3	20.0
Pentachloroethane	Ave	0.1410	0.3474		0.0985	0.0400	146.3*	20.0
1,2,3-Trimethylbenzene	Ave	2.598	2.273		0.0175	0.0200	-12.5	20.0
Benzyl chloride	Lin1		0.3925		0.0202	0.0200	1.1	20.0
1,3,5-Trichlorobenzene	Ave	0.9474	0.7689		0.0162	0.0200	-18.8	20.0
2-Methylnaphthalene	Ave	1.504	1.157		0.0308	0.0400	-23.1*	20.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: ICIS 240-450378/12 Date Analyzed: 09/08/2020 13:36

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM31025.D Heated Purge: (Y/N) N

Calibration ID: 58341

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		955305	5.87	743399	8.60	412806	10.86
UPPER LIMIT		1910610	6.37	1486798	9.10	825612	11.36
LOWER LIMIT		477653	5.37	371700	8.10	206403	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-450378/16		937717	5.87	743116	8.60	412044	10.86
ICV 240-450378/25		909527	5.87	734035	8.60	394515	10.86
CCVIS 240-476369/3		1347751	5.87	1028829	8.59	583115	10.86
CCVIS 240-476975/3		1376920	5.87	997536	8.59	540906	10.86

FB = Fluorobenzene
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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: CCVIS 240-476369/3 Date Analyzed: 03/11/2021 09:08

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM35608.D Heated Purge: (Y/N) N

Calibration ID: 58345

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1347751	5.87	1028829	8.59	583115	10.86
UPPER LIMIT		2695502	6.37	2057658	9.09	1166230	11.36
LOWER LIMIT		673876	5.37	514415	8.09	291558	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-476369/4		1253494	5.87	997576	8.59	534232	10.86
LCS 240-476369/5		1324417	5.87	1018148	8.59	578451	10.86
MB 240-476369/8		1083755	5.87	904959	8.59	489217	10.86
LCSD 240-476369/10		1318008	5.87	1012291	8.59	561767	10.86
240-145599-1	MSA-SW37A-030821	1125278	5.87	958730	8.59	516451	10.86
240-145599-2	MSA-SW37B-030821	1055313	5.87	907724	8.59	485135	10.86
240-145599-3	MSA-SW37C-030821	1064918	5.87	916563	8.59	495564	10.86
240-145599-4	MSA-SW37D-030821	1075735	5.87	945027	8.59	508701	10.86
240-145599-5	MSA-SW38A-030821	1081452	5.87	919114	8.59	498153	10.86
240-145599-6	MSA-SW38B-030821	1067804	5.87	893251	8.59	487802	10.86
240-145599-7	MSA-SW38C-030821	1047958	5.87	905903	8.59	491957	10.86
240-145599-8	MSA-SW38D-030821	1153211	5.87	957018	8.59	514639	10.86
240-145599-9	MSA-SW40A-030821	1099575	5.87	931095	8.59	503983	10.86
240-145599-10	MSA-SW40B-030821	1051548	5.87	914014	8.59	491237	10.86
240-145599-11	MSA-SW40C-030821	1050124	5.87	895235	8.59	476825	10.86
240-145599-12	MSA-SW40D-030821	993978	5.87	861248	8.59	465014	10.86
240-145599-13	MSA-SW41A-030821	1117997	5.87	932514	8.59	521833	10.86
240-145599-14	MSA-SW41B-030821	1115235	5.87	913542	8.59	501514	10.86
240-145599-15	MSA-SW41C-030821	1042831	5.87	870402	8.59	478889	10.86
240-145599-16	MSA-SW41D-030821	1057411	5.87	900950	8.59	482415	10.86

FB = Fluorobenzene
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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: CCVIS 240-476975/3 Date Analyzed: 03/16/2021 10:39

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM35681.D Heated Purge: (Y/N) N

Calibration ID: 58345

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1376920	5.87	997536	8.59	540906	10.86
UPPER LIMIT		2753840	6.37	1995072	9.09	1081812	11.36
LOWER LIMIT		688460	5.37	498768	8.09	270453	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-476975/4		1270652	5.87	961236	8.59	517038	10.86
LCS 240-476975/5		1329759	5.87	981298	8.59	523399	10.86
MB 240-476975/8		1106161	5.87	897118	8.59	470923	10.86
LCSD 240-476975/10		1296000	5.87	954197	8.59	520261	10.86
240-145599-17	MSA-SW42A-030821	1115736	5.87	894670	8.59	462969	10.86
240-145599-18	MSA-SW42B-030821	1094195	5.87	879495	8.59	470607	10.86
240-145599-19	MSA-SW42C-030821	1000957	5.87	820783	8.59	434777	10.86
240-145599-30	MSA-SW46A-030821	1007683	5.87	823376	8.59	438664	10.86
240-145599-31	MSA-SW47A-030821	972661	5.87	850134	8.59	433079	10.86
240-145599-32	MSA-SW48A-030821	1061253	5.87	869364	8.59	456798	10.86
240-145599-33	MSA-SW49A-030821	977320	5.87	817418	8.59	424881	10.86

FB = Fluorobenzene
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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: ICIS 240-342719/10 Date Analyzed: 08/27/2018 18:16

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1901326.d Heated Purge: (Y/N) N

Calibration ID: 46687

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		972482	5.65	783101	8.50	430906	10.88
UPPER LIMIT		1944964	6.15	1566202	9.00	861812	11.38
LOWER LIMIT		486241	5.15	391551	8.00	215453	10.38
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-342719/14		955207	5.65	765531	8.50	424750	10.88
CCVIS 240-476858/4		912579	5.67	715484	8.50	374191	10.90

FB = Fluorobenzene
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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: CCVIS 240-476858/4 Date Analyzed: 03/15/2021 19:04

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1920960.d Heated Purge: (Y/N) N

Calibration ID: 57283

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		912579	5.67	715484	8.50	374191	10.90
UPPER LIMIT		1825158	6.17	1430968	9.00	748382	11.40
LOWER LIMIT		456290	5.17	357742	8.00	187096	10.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-476858/5		889891	5.67	715702	8.50	365666	10.90
MB 240-476858/8		849784	5.67	689429	8.50	337930	10.90
240-145599-20	MSA-SW42D-030821	824119	5.67	667834	8.50	315851	10.90
240-145599-21	MSA-SW43A-030821	842728	5.67	683308	8.50	328816	10.90
240-145599-22	MSA-SW43B-030821	815231	5.67	656507	8.50	309560	10.90
240-145599-23	MSA-SW43C-030821	815840	5.67	661648	8.50	319764	10.90
240-145599-24	MSA-SW43D-030821	798698	5.67	665875	8.50	318035	10.90
240-145599-25	MSA-SW44A-030821	804063	5.67	668677	8.50	328912	10.90
240-145599-26	MSA-SW44B-030821	799574	5.67	666323	8.50	311178	10.90
240-145599-27	MSA-SW44C-030821	783480	5.67	645435	8.50	316044	10.90
240-145599-28	MSA-SW44D-030821	797023	5.67	656970	8.50	315700	10.90
240-145599-29	TB-030821	802007	5.67	647457	8.50	308548	10.90

FB = Fluorobenzene
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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: ICIS 240-468309/11 Date Analyzed: 01/07/2021 13:52

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX992602.D Heated Purge: (Y/N) N

Calibration ID: 59891

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1096535	5.87	821576	8.56	476094	10.81
UPPER LIMIT		2193070	6.37	1643152	9.06	952188	11.31
LOWER LIMIT		548268	5.37	410788	8.06	238047	10.31
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-468309/15		1211297	5.87	961544	8.56	522141	10.81
ICV 240-468309/24		1065142	5.87	756350	8.56	441406	10.81
CCVIS 240-477127/3		1500243	5.87	1227023	8.56	661723	10.81

FB = Fluorobenzene
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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: CCVIS 240-477127/3 Date Analyzed: 03/17/2021 07:58

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX993993.D Heated Purge: (Y/N) N

Calibration ID: 59895

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1500243	5.87	1227023	8.56	661723	10.81
UPPER LIMIT		3000486	6.37	2454046	9.06	1323446	11.31
LOWER LIMIT		750122	5.37	613512	8.06	330862	10.31
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-477127/4		1493499	5.86	1242571	8.56	642634	10.81
MB 240-477127/8		1469576	5.87	1196843	8.57	646042	10.81
LCS 240-477127/10		1526300	5.87	1241347	8.56	674751	10.81
240-145599-17	MSA-SW42A-030821	1452980	5.87	1174507	8.57	632716	10.81
240-145599-18	MSA-SW42B-030821	1399744	5.87	1135366	8.57	616753	10.81
240-145599-19	MSA-SW42C-030821	1416005	5.87	1132246	8.56	622521	10.81
240-145599-30	MSA-SW46A-030821	1429659	5.87	1153788	8.56	629755	10.81
240-145830-A-2 MS		1453142	5.87	1163386	8.57	633109	10.81
240-145830-A-2 MSD		1504678	5.87	1216646	8.57	670124	10.81

FB = Fluorobenzene
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

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 Start Date: 07/25/2018 11:28

Analysis Batch Number: 337917 End Date: 07/25/2018 19:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-337917/1		07/25/2018 11:28	1	bfb037.d	DB-624 0.18(mm)
CCVIS 240-337917/3		07/25/2018 12:17	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 12:39	1		DB-624 0.18(mm)
STDA9 240-337917/8 IC		07/25/2018 13:24	1	U1900802.d	DB-624 0.18(mm)
STDA9 240-337917/9 IC		07/25/2018 13:46	1	U1900803.d	DB-624 0.18(mm)
STDA9 240-337917/10 IC		07/25/2018 14:08	1	U1900804.d	DB-624 0.18(mm)
STDA9 240-337917/11 IC		07/25/2018 14:30	1	U1900805.d	DB-624 0.18(mm)
STDA9 240-337917/12 IC		07/25/2018 14:52	1	U1900806.d	DB-624 0.18(mm)
STDA9 240-337917/13 IC		07/25/2018 15:15	1	U1900807.d	DB-624 0.18(mm)
ICV 240-337917/14		07/25/2018 15:37	1		DB-624 0.18(mm)
MRL 240-337917/15 MDLV		07/25/2018 15:59	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 16:21	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 16:44	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 17:06	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 17:29	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 17:51	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 18:13	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 18:35	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 18:57	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 19:20	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 19:42	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 Start Date: 08/27/2018 16:23

Analysis Batch Number: 342719 End Date: 08/27/2018 20:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-342719/1		08/27/2018 16:23	1	bfb058.d	DB-624 0.18(mm)
CCV 240-342719/2		08/27/2018 16:46	1		DB-624 0.18(mm)
STD8260 240-342719/7 IC		08/27/2018 17:09	1	U1901323.d	DB-624 0.18(mm)
STD8260 240-342719/8 IC		08/27/2018 17:31	1	U1901324.d	DB-624 0.18(mm)
STD8260 240-342719/9 IC		08/27/2018 17:53	1	U1901325.d	DB-624 0.18(mm)
ICIS 240-342719/10		08/27/2018 18:16	1	U1901326.d	DB-624 0.18(mm)
STD8260 240-342719/11 IC		08/27/2018 18:38	1	U1901327.d	DB-624 0.18(mm)
STD8260 240-342719/12 IC		08/27/2018 19:01	1	U1901328.d	DB-624 0.18(mm)
STD8260 240-342719/13 IC		08/27/2018 19:23	1	U1901329.d	DB-624 0.18(mm)
ICV 240-342719/14		08/27/2018 19:45	1	U1901330.d	DB-624 0.18(mm)
MRL 240-342719/15 MDLV		08/27/2018 20:07	1		DB-624 0.18(mm)
MDLV 240-342719/16		08/27/2018 20:30	1		DB-624 0.18(mm)
ZZZZZ		08/27/2018 20:52	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 Start Date: 09/08/2020 11:23

Analysis Batch Number: 450378 End Date: 09/08/2020 18:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-450378/1		09/08/2020 11:23	1	BFB6489.D	DB-624 0.18(mm)
STD8260 240-450378/9 IC		09/08/2020 12:22	1	UXM31022.D	DB-624 0.18(mm)
STD8260 240-450378/10 IC		09/08/2020 12:47	1	UXM31023.D	DB-624 0.18(mm)
STD8260 240-450378/11 IC		09/08/2020 13:12	1	UXM31024.D	DB-624 0.18(mm)
ICIS 240-450378/12		09/08/2020 13:36	1	UXM31025.D	DB-624 0.18(mm)
STD8260 240-450378/13 IC		09/08/2020 14:01	1	UXM31026.D	DB-624 0.18(mm)
STD8260 240-450378/14 IC		09/08/2020 14:26	1	UXM31027.D	DB-624 0.18(mm)
STD8260 240-450378/15 IC		09/08/2020 14:50	1	UXM31028.D	DB-624 0.18(mm)
ICV 240-450378/16		09/08/2020 15:15	1	UXM31029.D	DB-624 0.18(mm)
STDA9 240-450378/19 IC		09/08/2020 16:30	1	UXM31032.D	DB-624 0.18(mm)
STDA9 240-450378/20 IC		09/08/2020 16:55	1	UXM31033.D	DB-624 0.18(mm)
STDA9 240-450378/21 IC		09/08/2020 17:19	1	UXM31034.D	DB-624 0.18(mm)
STDA9 240-450378/22 IC		09/08/2020 17:44	1	UXM31035.D	DB-624 0.18(mm)
STDA9 240-450378/23 IC		09/08/2020 18:09	1	UXM31036.D	DB-624 0.18(mm)
STDA9 240-450378/24 IC		09/08/2020 18:33	1	UXM31037.D	DB-624 0.18(mm)
ICV 240-450378/25		09/08/2020 18:58	1	UXM31038.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 Start Date: 01/07/2021 11:58

Analysis Batch Number: 468309 End Date: 01/07/2021 18:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-468309/2		01/07/2021 11:58	1	BFB1164.D	DB-624 0.18(mm)
STD8260 240-468309/8 IC		01/07/2021 12:44	1	UX992599.D	DB-624 0.18(mm)
STD8260 240-468309/9 IC		01/07/2021 13:07	1	UX992600.D	DB-624 0.18(mm)
STD8260 240-468309/10 IC		01/07/2021 13:29	1	UX992601.D	DB-624 0.18(mm)
ICIS 240-468309/11		01/07/2021 13:52	1	UX992602.D	DB-624 0.18(mm)
STD8260 240-468309/12 IC		01/07/2021 14:14	1	UX992603.D	DB-624 0.18(mm)
STD8260 240-468309/13 IC		01/07/2021 14:37	1	UX992604.D	DB-624 0.18(mm)
STD8260 240-468309/14 IC		01/07/2021 14:59	1	UX992605.D	DB-624 0.18(mm)
ICV 240-468309/15		01/07/2021 15:22	1	UX992606.D	DB-624 0.18(mm)
STDA9 240-468309/18 IC		01/07/2021 16:28	1	UX992609.D	DB-624 0.18(mm)
STDA9 240-468309/19 IC		01/07/2021 16:51	1	UX992610.D	DB-624 0.18(mm)
STDA9 240-468309/20 IC		01/07/2021 17:13	1	UX992611.D	DB-624 0.18(mm)
STDA9 240-468309/21 IC		01/07/2021 17:36	1	UX992612.D	DB-624 0.18(mm)
STDA9 240-468309/22 IC		01/07/2021 17:58	1	UX992613.D	DB-624 0.18(mm)
STDA9 240-468309/23 IC		01/07/2021 18:20	1	UX992614.D	DB-624 0.18(mm)
ICV 240-468309/24		01/07/2021 18:43	1	UX992615.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 Start Date: 03/11/2021 08:44

Analysis Batch Number: 476369 End Date: 03/11/2021 18:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-476369/1		03/11/2021 08:44	1	BFB6644.D	DB-624 0.18(mm)
CCVIS 240-476369/3		03/11/2021 09:08	1	UXM35608.D	DB-624 0.18(mm)
CCV 240-476369/4		03/11/2021 09:32	1	UXM35609.D	DB-624 0.18(mm)
LCS 240-476369/5		03/11/2021 09:57	1	UXM35610.D	DB-624 0.18(mm)
MRL 240-476369/6 MDLV		03/11/2021 10:22	1		DB-624 0.18(mm)
MRL 240-476369/7 MDLV		03/11/2021 10:46	1		DB-624 0.18(mm)
MB 240-476369/8		03/11/2021 11:11	1	UXM35613.D	DB-624 0.18(mm)
MRL 240-476369/9 MDLV		03/11/2021 11:36	1		DB-624 0.18(mm)
LCSD 240-476369/10		03/11/2021 12:00	1	UXM35615.D	DB-624 0.18(mm)
240-145599-1	MSA-SW37A-030821	03/11/2021 12:25	1	UXM35616.D	DB-624 0.18(mm)
240-145599-2	MSA-SW37B-030821	03/11/2021 12:49	1	UXM35617.D	DB-624 0.18(mm)
240-145599-3	MSA-SW37C-030821	03/11/2021 13:24	1	UXM35618.D	DB-624 0.18(mm)
240-145599-4	MSA-SW37D-030821	03/11/2021 13:48	1	UXM35619.D	DB-624 0.18(mm)
240-145599-5	MSA-SW38A-030821	03/11/2021 14:13	1	UXM35620.D	DB-624 0.18(mm)
240-145599-6	MSA-SW38B-030821	03/11/2021 14:37	1	UXM35621.D	DB-624 0.18(mm)
240-145599-7	MSA-SW38C-030821	03/11/2021 15:02	1	UXM35622.D	DB-624 0.18(mm)
240-145599-8	MSA-SW38D-030821	03/11/2021 15:27	1	UXM35623.D	DB-624 0.18(mm)
240-145599-9	MSA-SW40A-030821	03/11/2021 15:51	1	UXM35624.D	DB-624 0.18(mm)
240-145599-10	MSA-SW40B-030821	03/11/2021 16:16	1	UXM35625.D	DB-624 0.18(mm)
240-145599-11	MSA-SW40C-030821	03/11/2021 16:41	1	UXM35626.D	DB-624 0.18(mm)
240-145599-12	MSA-SW40D-030821	03/11/2021 17:05	1	UXM35627.D	DB-624 0.18(mm)
240-145599-13	MSA-SW41A-030821	03/11/2021 17:30	1	UXM35628.D	DB-624 0.18(mm)
240-145599-14	MSA-SW41B-030821	03/11/2021 17:54	1	UXM35629.D	DB-624 0.18(mm)
240-145599-15	MSA-SW41C-030821	03/11/2021 18:19	1	UXM35630.D	DB-624 0.18(mm)
240-145599-16	MSA-SW41D-030821	03/11/2021 18:43	1	UXM35631.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 Start Date: 03/15/2021 18:13

Analysis Batch Number: 476858 End Date: 03/16/2021 05:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-476858/43		03/15/2021 18:13	1	bfb766.d	DB-624 0.18(mm)
CCV 240-476858/3		03/15/2021 18:42	1	U1920959.d	DB-624 0.18(mm)
CCVIS 240-476858/4		03/15/2021 19:04	1	U1920960.d	DB-624 0.18(mm)
LCS 240-476858/5		03/15/2021 19:29	1	U1920961.d	DB-624 0.18(mm)
MRL 240-476858/6 MDLV		03/15/2021 19:57	1		DB-624 0.18(mm)
MRL 240-476858/7 MDLV		03/15/2021 20:24	1		DB-624 0.18(mm)
MB 240-476858/8		03/15/2021 20:55	1	U1920964.d	DB-624 0.18(mm)
ZZZZZ		03/15/2021 21:24	1		DB-624 0.18(mm)
ZZZZZ		03/15/2021 21:52	1		DB-624 0.18(mm)
ZZZZZ		03/15/2021 22:24	1		DB-624 0.18(mm)
ZZZZZ		03/15/2021 22:50	1		DB-624 0.18(mm)
ZZZZZ		03/15/2021 23:18	1		DB-624 0.18(mm)
ZZZZZ		03/15/2021 23:46	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 00:11	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 00:38	1		DB-624 0.18(mm)
240-145599-20	MSA-SW42D-030821	03/16/2021 01:05	1	U1920973.d	DB-624 0.18(mm)
240-145599-21	MSA-SW43A-030821	03/16/2021 01:34	1	U1920974.d	DB-624 0.18(mm)
240-145599-22	MSA-SW43B-030821	03/16/2021 02:09	1	U1920975.d	DB-624 0.18(mm)
240-145599-23	MSA-SW43C-030821	03/16/2021 02:36	1	U1920976.d	DB-624 0.18(mm)
240-145599-24	MSA-SW43D-030821	03/16/2021 03:06	1	U1920977.d	DB-624 0.18(mm)
240-145599-25	MSA-SW44A-030821	03/16/2021 03:36	1	U1920978.d	DB-624 0.18(mm)
240-145599-26	MSA-SW44B-030821	03/16/2021 04:06	1	U1920979.d	DB-624 0.18(mm)
240-145599-27	MSA-SW44C-030821	03/16/2021 04:37	1	U1920980.d	DB-624 0.18(mm)
240-145599-28	MSA-SW44D-030821	03/16/2021 05:17	1	U1920981.d	DB-624 0.18(mm)
240-145599-29	TB-030821	03/16/2021 05:48	1	U1920982.d	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 Start Date: 03/16/2021 10:14

Analysis Batch Number: 476975 End Date: 03/16/2021 20:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-476975/1		03/16/2021 10:14	1	BFB6646.D	DB-624 0.18(mm)
CCVIS 240-476975/3		03/16/2021 10:39	1	UXM35681.D	DB-624 0.18(mm)
CCV 240-476975/4		03/16/2021 11:04	1	UXM35682.D	DB-624 0.18(mm)
LCS 240-476975/5		03/16/2021 11:28	1	UXM35683.D	DB-624 0.18(mm)
MRL 240-476975/6 MDLV		03/16/2021 11:53	1		DB-624 0.18(mm)
MRL 240-476975/7 MDLV		03/16/2021 12:18	1		DB-624 0.18(mm)
MB 240-476975/8		03/16/2021 12:42	1	UXM35686.D	DB-624 0.18(mm)
MRL 240-476975/9 MDLV		03/16/2021 13:07	1		DB-624 0.18(mm)
LCSD 240-476975/10		03/16/2021 13:32	1	UXM35688.D	DB-624 0.18(mm)
240-145599-17	MSA-SW42A-030821	03/16/2021 13:57	1	UXM35689.D	DB-624 0.18(mm)
240-145599-18	MSA-SW42B-030821	03/16/2021 14:21	1	UXM35690.D	DB-624 0.18(mm)
240-145599-19	MSA-SW42C-030821	03/16/2021 14:46	1	UXM35691.D	DB-624 0.18(mm)
240-145599-30	MSA-SW46A-030821	03/16/2021 15:10	1	UXM35692.D	DB-624 0.18(mm)
240-145599-31	MSA-SW47A-030821	03/16/2021 15:35	1	UXM35693.D	DB-624 0.18(mm)
240-145599-32	MSA-SW48A-030821	03/16/2021 15:59	1	UXM35694.D	DB-624 0.18(mm)
240-145599-33	MSA-SW49A-030821	03/16/2021 16:24	1	UXM35695.D	DB-624 0.18(mm)
ZZZZZ		03/16/2021 16:49	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 17:13	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 17:38	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 18:03	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 18:27	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 18:52	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 19:16	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 19:41	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 20:30	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 20:55	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 Start Date: 03/17/2021 07:33

Analysis Batch Number: 477127 End Date: 03/17/2021 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-477127/1		03/17/2021 07:33	1	BFB1220.D	DB-624 0.18(mm)
CCVIS 240-477127/3		03/17/2021 07:58	1	UX993993.D	DB-624 0.18(mm)
CCV 240-477127/4		03/17/2021 08:21	1	UX993994.D	DB-624 0.18(mm)
MRL 240-477127/6 MDLV		03/17/2021 09:06	1		DB-624 0.18(mm)
MRL 240-477127/7 MDLV		03/17/2021 09:28	1		DB-624 0.18(mm)
MB 240-477127/8		03/17/2021 09:50	1	UX993998.D	DB-624 0.18(mm)
ZZZZZ		03/17/2021 10:13	1		DB-624 0.18(mm)
LCS 240-477127/10		03/17/2021 10:36	1	UX994000.D	DB-624 0.18(mm)
ZZZZZ		03/17/2021 11:16	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 11:38	1		DB-624 0.18(mm)
240-145599-17	MSA-SW42A-030821	03/17/2021 12:01	1	UX994003.D	DB-624 0.18(mm)
240-145599-18	MSA-SW42B-030821	03/17/2021 12:23	1	UX994004.D	DB-624 0.18(mm)
240-145599-19	MSA-SW42C-030821	03/17/2021 12:46	1	UX994005.D	DB-624 0.18(mm)
240-145599-30	MSA-SW46A-030821	03/17/2021 13:08	1	UX994006.D	DB-624 0.18(mm)
ZZZZZ		03/17/2021 13:31	10		DB-624 0.18(mm)
ZZZZZ		03/17/2021 13:54	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 14:16	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 14:39	5		DB-624 0.18(mm)
ZZZZZ		03/17/2021 15:02	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 15:24	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 15:47	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 16:10	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 16:32	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 16:55	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 17:17	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 17:40	1		DB-624 0.18(mm)
240-145830-A-2 MS		03/17/2021 18:02	10	UX994019.D	DB-624 0.18(mm)
240-145830-A-2 MSD		03/17/2021 18:25	10	UX994020.D	DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 342719 Batch Start Date: 08/27/18 16:23 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_A 00001	vm50ss 00333	vm50ss_stk 00077	vmarolistdw 00260
BFB 240-342719/1		8260C		5 mL	5 mL				
STD8260 240-342719/7 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
STD8260 240-342719/8 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-342719/9 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
ICIS 240-342719/10		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-342719/11 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
STD8260 240-342719/12 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-342719/13 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
ICV 240-342719/14		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00020	vmfasaw 00246	vmfasgw 00271	vmfaspw 00264	vmrgas 00259	vmrprimw 00297
BFB 240-342719/1		8260C		1 uL					
STD8260 240-342719/7 IC		8260C						64 uL	64 uL
STD8260 240-342719/8 IC		8260C						48 uL	48 uL
STD8260 240-342719/9 IC		8260C						32 uL	32 uL
ICIS 240-342719/10		8260C						16 uL	16 uL
STD8260 240-342719/11 IC		8260C						8 uL	8 uL
STD8260 240-342719/12 IC		8260C						0.8 uL	0.8 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 342719 Batch Start Date: 08/27/18 16:23 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00020	vmfasaw 00246	vmfasgw 00271	vmfaspw 00264	vmrgas 00259	vmrprimw 00297
STD8260 240-342719/13 IC		8260C						0.4 uL	0.4 uL
ICV 240-342719/14		8260C			16 uL	16 uL	16 uL		

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_a 00007	vm50ss 00417	vm50ss_stk 00085	vmarolistdw 00359
BFB 240-450378/1		8260C		5 mL	5 mL				
STD8260 240-450378/9 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
STD8260 240-450378/10 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-450378/11 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
ICIS 240-450378/12		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-450378/13 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
STD8260 240-450378/14 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-450378/15 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
ICV 240-450378/16		8260C		5 mL	5 mL	2 uL		2 uL	
STDA9 240-450378/19 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/20 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/21 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/22 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/23 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/24 IC		8260C		5 mL	5 mL	2 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_a 00007	vm50ss 00417	vm50ss_stk 00085	vmarolistdw 00359
ICV 240-450378/25		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	VMFASA9W 00290	vmfasaw 00342	vmfasgw 00375	vmfaspw 00365	vmra9w 00359
BFB 240-450378/1		8260C		1 uL					
STD8260 240-450378/9 IC		8260C							
STD8260 240-450378/10 IC		8260C							
STD8260 240-450378/11 IC		8260C							
ICIS 240-450378/12		8260C							
STD8260 240-450378/13 IC		8260C							
STD8260 240-450378/14 IC		8260C							
STD8260 240-450378/15 IC		8260C							
ICV 240-450378/16		8260C				16 uL	16 uL	16 uL	
STDA9 240-450378/19 IC		8260C							64 uL
STDA9 240-450378/20 IC		8260C							32 uL
STDA9 240-450378/21 IC		8260C							16 uL
STDA9 240-450378/22 IC		8260C							8 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	VMFASA9W 00290	vmfasaw 00342	vmfasgw 00375	vmfaspw 00365	vmra9w 00359
STDA9 240-450378/23 IC		8260C							0.8 uL
STDA9 240-450378/24 IC		8260C							0.4 uL
ICV 240-450378/25		8260C			16 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00353	vmrprimw 00402				
BFB 240-450378/1		8260C							
STD8260 240-450378/9 IC		8260C		64 uL	64 uL				
STD8260 240-450378/10 IC		8260C		48 uL	48 uL				
STD8260 240-450378/11 IC		8260C		32 uL	32 uL				
ICIS 240-450378/12		8260C		16 uL	16 uL				
STD8260 240-450378/13 IC		8260C		8 uL	8 uL				
STD8260 240-450378/14 IC		8260C		0.8 uL	0.8 uL				
STD8260 240-450378/15 IC		8260C		0.4 uL	0.4 uL				
ICV 240-450378/16		8260C							
STDA9 240-450378/19 IC		8260C							
STDA9 240-450378/20 IC		8260C							
STDA9 240-450378/21 IC		8260C							

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00353	vmrprimw 00402				
STDA9 240-450378/22 IC		8260C							
STDA9 240-450378/23 IC		8260C							
STDA9 240-450378/24 IC		8260C							
ICV 240-450378/25		8260C							

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 468309 Batch Start Date: 01/07/21 11:58 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm100is_stk_a 00006	vm50ss 00431	vmarolistdw 00375	vmbfb 00026
BFB 240-468309/2		8260C		5 mL	5 mL				1 uL
STD8260 240-468309/8 IC		8260C		5 mL	5 mL	1 uL	0.4 uL	0.4 uL	
STD8260 240-468309/9 IC		8260C		5 mL	5 mL	1 uL	0.8 uL	0.8 uL	
STD8260 240-468309/10 IC		8260C		5 mL	5 mL	1 uL	8 uL	8 uL	
ICIS 240-468309/11		8260C		5 mL	5 mL	1 uL	16 uL	16 uL	
STD8260 240-468309/12 IC		8260C		5 mL	5 mL	1 uL	24 uL	24 uL	
STD8260 240-468309/13 IC		8260C		5 mL	5 mL	1 uL	32 uL	32 uL	
STD8260 240-468309/14 IC		8260C		5 mL	5 mL	1 uL	48 uL	48 uL	
ICV 240-468309/15		8260C		5 mL	5 mL	1 uL	16 uL		
STDA9 240-468309/18 IC		8260C		5 mL	5 mL	1 uL			
STDA9 240-468309/19 IC		8260C		5 mL	5 mL	1 uL			
STDA9 240-468309/20 IC		8260C		5 mL	5 mL	1 uL			
STDA9 240-468309/21 IC		8260C		5 mL	5 mL	1 uL			
STDA9 240-468309/22 IC		8260C		5 mL	5 mL	1 uL			
STDA9 240-468309/23 IC		8260C		5 mL	5 mL	1 uL			
ICV 240-468309/24		8260C		5 mL	5 mL	1 uL	16 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 468309 Batch Start Date: 01/07/21 11:58 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASA9W 00304	vmfasaw 00358	vmfasgw 00390	vmfaspw 00381	vmra9w 00374	vmrgas 00368
BFB 240-468309/2		8260C							
STD8260 240-468309/8 IC		8260C							0.4 uL
STD8260 240-468309/9 IC		8260C							0.8 uL
STD8260 240-468309/10 IC		8260C							8 uL
ICIS 240-468309/11		8260C							16 uL
STD8260 240-468309/12 IC		8260C							24 uL
STD8260 240-468309/13 IC		8260C							32 uL
STD8260 240-468309/14 IC		8260C							48 uL
ICV 240-468309/15		8260C			16 uL	16 uL	16 uL		
STDA9 240-468309/18 IC		8260C						0.4 uL	
STDA9 240-468309/19 IC		8260C						0.8 uL	
STDA9 240-468309/20 IC		8260C						8 uL	
STDA9 240-468309/21 IC		8260C						16 uL	
STDA9 240-468309/22 IC		8260C						32 uL	
STDA9 240-468309/23 IC		8260C						48 uL	
ICV 240-468309/24		8260C		16 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 468309 Batch Start Date: 01/07/21 11:58 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00418					
BFB 240-468309/2		8260C							
STD8260 240-468309/8 IC		8260C		0.4 uL					
STD8260 240-468309/9 IC		8260C		0.8 uL					
STD8260 240-468309/10 IC		8260C		8 uL					
ICIS 240-468309/11		8260C		16 uL					
STD8260 240-468309/12 IC		8260C		24 uL					
STD8260 240-468309/13 IC		8260C		32 uL					
STD8260 240-468309/14 IC		8260C		48 uL					
ICV 240-468309/15		8260C							
STDA9 240-468309/18 IC		8260C							
STDA9 240-468309/19 IC		8260C							
STDA9 240-468309/20 IC		8260C							
STDA9 240-468309/21 IC		8260C							
STDA9 240-468309/22 IC		8260C							
STDA9 240-468309/23 IC		8260C							
ICV 240-468309/24		8260C							

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 468309 Batch Start Date: 01/07/21 11:58 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C 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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476369 Batch Start Date: 03/11/21 08:44 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_a 00008	vm50ss_stk 00086	vmarolistdw 00383
BFB 240-476369/1		8260C		5 mL	5 mL				
CCVIS 240-476369/3		8260C		5 mL	5 mL		2 uL	2.492 uL	16 uL
CCV 240-476369/4		8260C		5 mL	5 mL		2 uL		
LCS 240-476369/5		8260C		5 mL	5 mL		2 uL	2.492 uL	
MB 240-476369/8		8260C		5 mL	5 mL		2 uL	2.492 uL	
LCSD 240-476369/10		8260C		5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-A-1	MSA-SW37A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-2	MSA-SW37B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-3	MSA-SW37C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-4	MSA-SW37D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-5	MSA-SW38A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-6	MSA-SW38B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-7	MSA-SW38C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-8	MSA-SW38D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-9	MSA-SW40A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-10	MSA-SW40B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-11	MSA-SW40C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-C-12	MSA-SW40D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-A-13	MSA-SW41A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-14	MSA-SW41B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-15	MSA-SW41C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-16	MSA-SW41D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00365	vmfasgw 00399	vmfaspw 00389	vmra9w 00382	vmrgas 00376
BFB 240-476369/1		8260C		1 uL					
CCVIS 240-476369/3		8260C							16 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476369 Batch Start Date: 03/11/21 08:44 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00365	vmfasgw 00399	vmfaspw 00389	vmra9w 00382	vmrgas 00376
CCV 240-476369/4		8260C						16 uL	
LCS 240-476369/5		8260C			16 uL	16 uL	16 uL		
MB 240-476369/8		8260C							
LCSD 240-476369/10		8260C			16 uL	16 uL	16 uL		
240-145599-A-1	MSA-SW37A-030821	8260C	T						
240-145599-B-2	MSA-SW37B-030821	8260C	T						
240-145599-B-3	MSA-SW37C-030821	8260C	T						
240-145599-B-4	MSA-SW37D-030821	8260C	T						
240-145599-B-5	MSA-SW38A-030821	8260C	T						
240-145599-B-6	MSA-SW38B-030821	8260C	T						
240-145599-B-7	MSA-SW38C-030821	8260C	T						
240-145599-B-8	MSA-SW38D-030821	8260C	T						
240-145599-B-9	MSA-SW40A-030821	8260C	T						
240-145599-B-10	MSA-SW40B-030821	8260C	T						
240-145599-B-11	MSA-SW40C-030821	8260C	T						
240-145599-C-12	MSA-SW40D-030821	8260C	T						
240-145599-A-13	MSA-SW41A-030821	8260C	T						
240-145599-B-14	MSA-SW41B-030821	8260C	T						
240-145599-B-15	MSA-SW41C-030821	8260C	T						
240-145599-B-16	MSA-SW41D-030821	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00426					
BFB 240-476369/1		8260C							
CCVIS 240-476369/3		8260C		16 uL					
CCV 240-476369/4		8260C							
LCS 240-476369/5		8260C							
MB 240-476369/8		8260C							

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476369 Batch Start Date: 03/11/21 08:44 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00426					
LCSD 240-476369/10		8260C							
240-145599-A-1	MSA-SW37A-030821	8260C	T						
240-145599-B-2	MSA-SW37B-030821	8260C	T						
240-145599-B-3	MSA-SW37C-030821	8260C	T						
240-145599-B-4	MSA-SW37D-030821	8260C	T						
240-145599-B-5	MSA-SW38A-030821	8260C	T						
240-145599-B-6	MSA-SW38B-030821	8260C	T						
240-145599-B-7	MSA-SW38C-030821	8260C	T						
240-145599-B-8	MSA-SW38D-030821	8260C	T						
240-145599-B-9	MSA-SW40A-030821	8260C	T						
240-145599-B-10	MSA-SW40B-030821	8260C	T						
240-145599-B-11	MSA-SW40C-030821	8260C	T						
240-145599-C-12	MSA-SW40D-030821	8260C	T						
240-145599-A-13	MSA-SW41A-030821	8260C	T						
240-145599-B-14	MSA-SW41B-030821	8260C	T						
240-145599-B-15	MSA-SW41C-030821	8260C	T						
240-145599-B-16	MSA-SW41D-030821	8260C	T						

Batch Notes	
pH Indicator ID	HC907861

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476858 Batch Start Date: 03/15/21 18:13 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_A 00008	vm50ss_stk 00087	vmarolistdw 00383
CCV 240-476858/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-476858/4		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-476858/5		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-476858/8		8260C		5 mL	5 mL		2 uL	2 uL	
240-145599-B-20	MSA-SW42D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-21	MSA-SW43A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-22	MSA-SW43B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-23	MSA-SW43C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-24	MSA-SW43D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-A-25	MSA-SW44A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-26	MSA-SW44B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-27	MSA-SW44C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-28	MSA-SW44D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-A-29	TB-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
BFB 240-476858/43		8260C		5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00366	vmfasgw 00399	vmfaspw 00389	vmra9w 00383	vmrgas 00377
CCV 240-476858/3		8260C						16 uL	
CCVIS 240-476858/4		8260C							16 uL
LCS 240-476858/5		8260C			16 uL	16 uL	16 uL		
MB 240-476858/8		8260C							
240-145599-B-20	MSA-SW42D-030821	8260C	T						
240-145599-B-21	MSA-SW43A-030821	8260C	T						
240-145599-B-22	MSA-SW43B-030821	8260C	T						
240-145599-B-23	MSA-SW43C-030821	8260C	T						
240-145599-B-24	MSA-SW43D-030821	8260C	T						
240-145599-A-25	MSA-SW44A-030821	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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476858 Batch Start Date: 03/15/21 18:13 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00366	vmfasgw 00399	vmfaspw 00389	vmra9w 00383	vmrgas 00377
240-145599-B-26	MSA-SW44B-030821	8260C	T						
240-145599-B-27	MSA-SW44C-030821	8260C	T						
240-145599-B-28	MSA-SW44D-030821	8260C	T						
240-145599-A-29	TB-030821	8260C	T						
BFB 240-476858/43		8260C		1 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00426					
CCV 240-476858/3		8260C							
CCVIS 240-476858/4		8260C		16 uL					
LCS 240-476858/5		8260C							
MB 240-476858/8		8260C							
240-145599-B-20	MSA-SW42D-030821	8260C	T						
240-145599-B-21	MSA-SW43A-030821	8260C	T						
240-145599-B-22	MSA-SW43B-030821	8260C	T						
240-145599-B-23	MSA-SW43C-030821	8260C	T						
240-145599-B-24	MSA-SW43D-030821	8260C	T						
240-145599-A-25	MSA-SW44A-030821	8260C	T						
240-145599-B-26	MSA-SW44B-030821	8260C	T						
240-145599-B-27	MSA-SW44C-030821	8260C	T						
240-145599-B-28	MSA-SW44D-030821	8260C	T						
240-145599-A-29	TB-030821	8260C	T						
BFB 240-476858/43		8260C							

Batch Notes	
pH Indicator ID	HC907861

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476858 Batch Start Date: 03/15/21 18:13 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476975 Batch Start Date: 03/16/21 10:14 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_a 00008	vm50ss_stk 00086	vmarolistdw 00383
BFB 240-476975/1		8260C		5 mL	5 mL				
CCVIS 240-476975/3		8260C		5 mL	5 mL		2 uL	2.492 uL	16 uL
CCV 240-476975/4		8260C		5 mL	5 mL		2 uL		
LCS 240-476975/5		8260C		5 mL	5 mL		2 uL	2.492 uL	
MB 240-476975/8		8260C		5 mL	5 mL		2 uL	2.492 uL	
LCSD 240-476975/10		8260C		5 mL	5 mL		2 uL	2.492 uL	
240-145599-B-17	MSA-SW42A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-18	MSA-SW42B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-19	MSA-SW42C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-30	MSA-SW46A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-31	MSA-SW47A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-32	MSA-SW48A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-A-33	MSA-SW49A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00366	vmfasgw 00399	vmfaspw 00389	vmra9w 00383	vmrgas 00377
BFB 240-476975/1		8260C		1 uL					
CCVIS 240-476975/3		8260C							16 uL
CCV 240-476975/4		8260C						16 uL	
LCS 240-476975/5		8260C			16 uL	16 uL	16 uL		
MB 240-476975/8		8260C							
LCSD 240-476975/10		8260C			16 uL	16 uL	16 uL		
240-145599-B-17	MSA-SW42A-030821	8260C	T						
240-145599-B-18	MSA-SW42B-030821	8260C	T						
240-145599-B-19	MSA-SW42C-030821	8260C	T						
240-145599-B-30	MSA-SW46A-030821	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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476975 Batch Start Date: 03/16/21 10:14 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00366	vmfasgw 00399	vmfaspw 00389	vmra9w 00383	vmrgas 00377
240-145599-B-31	MSA-SW47A-030821	8260C	T						
240-145599-B-32	MSA-SW48A-030821	8260C	T						
240-145599-A-33	MSA-SW49A-030821	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00426					
BFB 240-476975/1		8260C							
CCVIS 240-476975/3		8260C		16 uL					
CCV 240-476975/4		8260C							
LCS 240-476975/5		8260C							
MB 240-476975/8		8260C							
LCSD 240-476975/10		8260C							
240-145599-B-17	MSA-SW42A-030821	8260C	T						
240-145599-B-18	MSA-SW42B-030821	8260C	T						
240-145599-B-19	MSA-SW42C-030821	8260C	T						
240-145599-B-30	MSA-SW46A-030821	8260C	T						
240-145599-B-31	MSA-SW47A-030821	8260C	T						
240-145599-B-32	MSA-SW48A-030821	8260C	T						
240-145599-A-33	MSA-SW49A-030821	8260C	T						

Batch Notes	
pH Indicator ID	HC907861

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 477127 Batch Start Date: 03/17/21 07:33 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm100is_stk_a 00006	vm100ss_stk 00033	vmarolistdw 00384
BFB 240-477127/1		8260C		5 mL	5 mL				
CCVIS 240-477127/3		8260C		5 mL	5 mL		1 uL	0.8111 uL	16 uL
CCV 240-477127/4		8260C		5 mL	5 mL		1 uL		
MB 240-477127/8		8260C		5 mL	5 mL		1 uL	0.8111 uL	
LCS 240-477127/10		8260C		5 mL	5 mL		1 uL	0.8111 uL	
240-145599-A-17	MSA-SW42A-030821	8260C	T	5 mL	5 mL	<2 SU	1 uL	0.8111 uL	
240-145599-A-18	MSA-SW42B-030821	8260C	T	5 mL	5 mL	<2 SU	1 uL	0.8111 uL	
240-145599-A-19	MSA-SW42C-030821	8260C	T	5 mL	5 mL	<2 SU	1 uL	0.8111 uL	
240-145599-A-30	MSA-SW46A-030821	8260C	T	5 mL	5 mL	<2 SU	1 uL	0.8111 uL	
240-145830-A-2 MS		8260C	T	5 mL	5 mL	<2 SU	1 uL	0.8111 uL	
240-145830-A-2 MSD		8260C	T	5 mL	5 mL	<2 SU	1 uL	0.8111 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00366	vmfasgw 00399	vmfaspw 00390	vmra9w 00383	vmrgas 00377
BFB 240-477127/1		8260C		1 uL					
CCVIS 240-477127/3		8260C							16 uL
CCV 240-477127/4		8260C						16 uL	
MB 240-477127/8		8260C							
LCS 240-477127/10		8260C			16 uL	16 uL	16 uL		
240-145599-A-17	MSA-SW42A-030821	8260C	T						
240-145599-A-18	MSA-SW42B-030821	8260C	T						
240-145599-A-19	MSA-SW42C-030821	8260C	T						
240-145599-A-30	MSA-SW46A-030821	8260C	T						
240-145830-A-2 MS		8260C	T		16 uL	16 uL	16 uL		
240-145830-A-2 MSD		8260C	T		16 uL	16 uL	16 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 477127 Batch Start Date: 03/17/21 07:33 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00427					
BFB 240-477127/1		8260C							
CCVIS 240-477127/3		8260C		16 uL					
CCV 240-477127/4		8260C							
MB 240-477127/8		8260C							
LCS 240-477127/10		8260C							
240-145599-A-17	MSA-SW42A-030821	8260C	T						
240-145599-A-18	MSA-SW42B-030821	8260C	T						
240-145599-A-19	MSA-SW42C-030821	8260C	T						
240-145599-A-30	MSA-SW46A-030821	8260C	T						
240-145830-A-2 MS		8260C	T						
240-145830-A-2 MSD		8260C	T						

Batch Notes	
pH Indicator ID	HC907861

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.

MSA
SDG 240-141716-1

SAMPLE IDENTIFICATION	MSA-SW40A-030821
COMPOUND	cis-1,2-dichloroethene
COMPOUND AREA	29352
INTERNAL STANDARD AMOUNT (ng)	20
DILUTION FACTOR	1
INTERNAL STANDARD AREA	1099575
AVERAGE RRF	0.2588
VOLUME OF SAMPLE	5
VOLUME OF EXTRACT	5.00
CONCENTRATION =	2.06 ug/L
REPORTED CONCENTRATION	2.1 ug/L

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35624.D
Lims ID: 240-145599-B-9
Client ID: MSA-SW40A-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 15:51:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-019
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:56:05

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	1099575	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	85	931095	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	503983	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	311301	26.0	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	97	321990	24.8	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1092540	21.8	
$	7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	95	460449	25.5	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	98	84057	4.52	
	13 Bromomethane	94	2.383	2.371	0.012	4	1617	0.1354	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.320	3.296	0.024	95	2640	2.69	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	76	29352	2.06	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	97	10930	0.1872	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	7
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	92	3402	0.1273	
86 o-Xylene	106		9.190				ND	7
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.1273	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

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ANALYTICAL REPORT

Job Number: 240-145599-1

SDG Number: Frog Mortar Creek

Job Description: MSA Surface Water

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Samantha Brenner

Roxanne Cisneros

Approved for release.
Roxanne Cisneros
Senior Project Manager
3/22/2021 6:13 PM

Roxanne Cisneros, Senior Project Manager
4101 Shuffel Street NW, North Canton, OH, 44720
(615)301-5761
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03/22/2021

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS VOA TICs

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Job Narrative
240-145599-1

Comments
No additional comments.

Receipt
The samples were received on 3/9/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-476369 was outside the method criteria for the following analyte(s): 2-Methyl-2-propanol, 1,1,2-Trichloro-1,2,2-trifluoroethane and Bromomethane. 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 analyte(s) is considered estimated. MSA-SW37A-030821 (240-145599-1), MSA-SW37B-030821 (240-145599-2), MSA-SW37C-030821 (240-145599-3), MSA-SW37D-030821 (240-145599-4), MSA-SW38A-030821 (240-145599-5), MSA-SW38B-030821 (240-145599-6), MSA-SW38C-030821 (240-145599-7), MSA-SW38D-030821 (240-145599-8), MSA-SW40A-030821 (240-145599-9), MSA-SW40B-030821 (240-145599-10), MSA-SW40C-030821 (240-145599-11), MSA-SW40D-030821 (240-145599-12), MSA-SW41A-030821 (240-145599-13), MSA-SW41B-030821 (240-145599-14), MSA-SW41C-030821 (240-145599-15), MSA-SW41D-030821 (240-145599-16) and (CCVIS 240-476369/3)

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-476858 was outside the method criteria for some analytes. 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 analyte(s) is considered estimated.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-476975 was outside the method criteria for the following analytes: Multiple Analytes. 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. MSA-SW42A-030821 (240-145599-17), MSA-SW42B-030821 (240-145599-18), MSA-SW42C-030821 (240-145599-19), MSA-SW46A-030821 (240-145599-30), MSA-SW47A-030821 (240-145599-31), MSA-SW48A-030821 (240-145599-32), MSA-SW49A-030821 (240-145599-33) and (CCVIS 240-476975/3)

Method 8260C: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: MSA-SW37A-030821 (240-145599-1), MSA-SW37B-030821 (240-145599-2), MSA-SW37C-030821 (240-145599-3), MSA-SW37D-030821 (240-145599-4), MSA-SW38A-030821 (240-145599-5), MSA-SW38B-030821 (240-145599-6), MSA-SW38C-030821 (240-145599-7), MSA-SW38D-030821 (240-145599-8), MSA-SW40A-030821 (240-145599-9), MSA-SW40B-030821 (240-145599-10), MSA-SW40C-030821 (240-145599-11), MSA-SW40D-030821 (240-145599-12), MSA-SW41A-030821 (240-145599-13), MSA-SW41B-030821 (240-145599-14), MSA-SW41C-030821 (240-145599-15), MSA-SW41D-030821 (240-145599-16), MSA-SW42A-030821 (240-145599-17), MSA-SW42B-030821 (240-145599-18), MSA-SW42C-030821 (240-145599-19), MSA-SW42D-030821 (240-145599-20), MSA-SW43A-030821 (240-145599-21), MSA-SW43B-030821 (240-145599-22), MSA-SW43C-030821 (240-145599-23), MSA-SW43D-030821 (240-145599-24), MSA-SW44A-030821 (240-145599-25), MSA-SW44B-030821 (240-145599-26), MSA-SW44C-030821 (240-145599-27), MSA-SW44D-030821 (240-145599-28), TB-030821 (240-145599-29), MSA-SW46A-030821 (240-145599-30), MSA-SW47A-030821 (240-145599-31), MSA-SW48A-030821 (240-145599-32) and MSA-SW49A-030821 (240-145599-33). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Methods 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-476858.

Methods 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-476975.

Method 8260C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-476369.

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

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

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Client Sample ID: MSA-SW37A-030821 — Lab Sample ID: 240-145599-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.14	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW37B-030821 — Lab Sample ID: 240-145599-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.19	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW37C-030821 — Lab Sample ID: 240-145599-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.19	J	1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	0.19	J	1.0	0.14	ug/L	1		8260C	Total/NA
Vinyl chloride	0.28	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW37D-030821 — Lab Sample ID: 240-145599-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.21	J	1.0	0.14	ug/L	1		8260C	Total/NA
Vinyl chloride	0.21	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW38A-030821 — Lab Sample ID: 240-145599-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.23	J	1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	0.16	J	1.0	0.14	ug/L	1		8260C	Total/NA
Vinyl chloride	0.54	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW38B-030821 — Lab Sample ID: 240-145599-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.23	J	1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	0.21	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.11	J	1.0	0.070	ug/L	1		8260C	Total/NA
Vinyl chloride	0.59	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW38C-030821 — Lab Sample ID: 240-145599-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.17	J	1.0	0.16	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.25	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.12	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.33	J	1.0	0.14	ug/L	1		8260C	Total/NA
Vinyl chloride	0.45	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.37	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW38D-030821 — Lab Sample ID: 240-145599-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.18	J	1.0	0.16	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.19	J	2.0	0.080	ug/L	1		8260C	Total/NA
Toluene	0.21	J	1.0	0.14	ug/L	1		8260C	Total/NA
Vinyl chloride	0.45	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.19	J	2.0	0.15	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Client Sample ID: MSA-SW40A-030821 — Lab Sample ID: 240-145599-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.1		1.0	0.16	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.13	J	2.0	0.080	ug/L	1		8260C	Total/NA
Toluene	0.19	J	1.0	0.14	ug/L	1		8260C	Total/NA
Vinyl chloride	4.5		1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW40B-030821 — Lab Sample ID: 240-145599-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.26	J	1.0	0.16	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.38	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.16	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.47	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.16	J	1.0	0.070	ug/L	1		8260C	Total/NA
Vinyl chloride	0.62	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.54	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW40C-030821 — Lab Sample ID: 240-145599-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.32	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.11	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.38	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.16	J	1.0	0.070	ug/L	1		8260C	Total/NA
Vinyl chloride	0.21	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.43	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW40D-030821 — Lab Sample ID: 240-145599-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.27	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.11	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.30	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.11	J	1.0	0.070	ug/L	1		8260C	Total/NA
Xylenes, Total	0.38	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW41A-030821 — Lab Sample ID: 240-145599-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.27	J	1.0	0.16	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.15	J	2.0	0.080	ug/L	1		8260C	Total/NA
Toluene	0.18	J	1.0	0.14	ug/L	1		8260C	Total/NA
Vinyl chloride	0.36	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.15	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW41B-030821 — Lab Sample ID: 240-145599-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.22	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.12	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.30	J	1.0	0.14	ug/L	1		8260C	Total/NA
Vinyl chloride	0.24	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.34	J	2.0	0.15	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Client Sample ID: MSA-SW41C-030821 — Lab Sample ID: 240-145599-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.18	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.10	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.26	J	1.0	0.14	ug/L	1		8260C	Total/NA
Xylenes, Total	0.28	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW41D-030821 — Lab Sample ID: 240-145599-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.25	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW42A-030821 — Lab Sample ID: 240-145599-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0	0.16	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.29	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.15	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.36	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.14	J	1.0	0.070	ug/L	1		8260C	Total/NA
Vinyl chloride	2.1		1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.44	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW42B-030821 — Lab Sample ID: 240-145599-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.55	J	1.0	0.16	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.41	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.16	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.44	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.19	J	1.0	0.070	ug/L	1		8260C	Total/NA
Vinyl chloride	0.88	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.57	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW42C-030821 — Lab Sample ID: 240-145599-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.55	J	1.0	0.16	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.30	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.13	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.35	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.16	J	1.0	0.070	ug/L	1		8260C	Total/NA
Vinyl chloride	0.86	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.43	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW42D-030821 — Lab Sample ID: 240-145599-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.31	J	1.0	0.16	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.28	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.12	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.33	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.13	J	1.0	0.070	ug/L	1		8260C	Total/NA
Vinyl chloride	0.78	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.40	J	2.0	0.15	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Client Sample ID: MSA-SW43A-030821 — Lab Sample ID: 240-145599-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.16	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW43B-030821 — Lab Sample ID: 240-145599-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.16	J	1.0	0.16	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.24	J	2.0	0.080	ug/L	1		8260C	Total/NA
Toluene	0.28	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.10	J	1.0	0.070	ug/L	1		8260C	Total/NA
Xylenes, Total	0.24	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW43C-030821 — Lab Sample ID: 240-145599-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.16	J	2.0	0.080	ug/L	1		8260C	Total/NA
Toluene	0.23	J	1.0	0.14	ug/L	1		8260C	Total/NA
Xylenes, Total	0.16	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW43D-030821 — Lab Sample ID: 240-145599-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.17	J	2.0	0.080	ug/L	1		8260C	Total/NA
Toluene	0.24	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.11	J	1.0	0.070	ug/L	1		8260C	Total/NA
Xylenes, Total	0.17	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW44A-030821 — Lab Sample ID: 240-145599-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.17	J	2.0	0.080	ug/L	1		8260C	Total/NA
Toluene	0.21	J	1.0	0.14	ug/L	1		8260C	Total/NA
Xylenes, Total	0.17	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW44B-030821 — Lab Sample ID: 240-145599-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.20	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.10	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.26	J	1.0	0.14	ug/L	1		8260C	Total/NA
Xylenes, Total	0.30	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW44C-030821 — Lab Sample ID: 240-145599-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.23	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.11	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.30	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.12	J	1.0	0.070	ug/L	1		8260C	Total/NA
Xylenes, Total	0.34	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW44D-030821 — Lab Sample ID: 240-145599-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.20	J	2.0	0.080	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MSA-SW44D-030821 (Continued) — Lab Sample ID: 240-145599-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.25	J	1.0	0.14	ug/L	1		8260C	Total/NA
Xylenes, Total	0.20	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: TB-030821 — Lab Sample ID: 240-145599-29

No Detections.

Client Sample ID: MSA-SW46A-030821 — Lab Sample ID: 240-145599-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.1		1.0	0.16	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.23	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.12	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.30	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.10	J	1.0	0.070	ug/L	1		8260C	Total/NA
Vinyl chloride	2.9		1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.35	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW47A-030821 — Lab Sample ID: 240-145599-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.33	J	1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	0.17	J	1.0	0.14	ug/L	1		8260C	Total/NA
Vinyl chloride	0.83	J	1.0	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW48A-030821 — Lab Sample ID: 240-145599-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.30	J	2.0	0.080	ug/L	1		8260C	Total/NA
o-Xylene	0.12	J	1.0	0.090	ug/L	1		8260C	Total/NA
Toluene	0.34	J	1.0	0.14	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	0.12	J	1.0	0.070	ug/L	1		8260C	Total/NA
Vinyl chloride	0.21	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	0.42	J	2.0	0.15	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW49A-030821 — Lab Sample ID: 240-145599-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.2		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	0.25	J	1.0	0.14	ug/L	1		8260C	Total/NA
Trichloroethene	0.71	J	1.0	0.10	ug/L	1		8260C	Total/NA
Vinyl chloride	0.83	J	1.0	0.20	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MSA-SW37A-030821

Date Collected: 03/08/21 10:54
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 12:25	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 12:25	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 12:25	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 12:25	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 12:25	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 12:25	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 12:25	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 12:25	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 12:25	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 12:25	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 12:25	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 12:25	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 12:25	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 12:25	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 12:25	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 12:25	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 12:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/11/21 12:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 12:25	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 12:25	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 12:25	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 12:25	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 12:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 12:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 12:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 12:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 12:25	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 12:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 12:25	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 12:25	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 12:25	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 12:25	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 12:25	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 12:25	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 12:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 12:25	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 12:25	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 12:25	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 12:25	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 12:25	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 12:25	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 12:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 12:25	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/11/21 12:25	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 12:25	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 12:25	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 12:25	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/11/21 12:25	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 12:25	1

Client Sample ID: MSA-SW37A-030821

Lab Sample ID: 240-145599-1

Date Collected: 03/08/21 10:54
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 12:25	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 12:25	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 12:25	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 12:25	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 12:25	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 12:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 12:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 12:25	1
Toluene	**0.14**	**J**	1.0	0.14	ug/L			03/11/21 12:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 12:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 12:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 12:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 12:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 12:25	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 12:25	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 12:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 12:25	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 12:25	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 12:25	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 12:25	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 12:25	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/11/21 12:25	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/11/21 12:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 12:25*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 12:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*		*03/11/21 12:25*	*1*
Dibromofluoromethane (Surr)	*102*		*78 - 129*		*03/11/21 12:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 130*		*03/11/21 12:25*	*1*
Toluene-d8 (Surr)	*88*		*69 - 122*		*03/11/21 12:25*	*1*

Client Sample ID: MSA-SW37B-030821

Lab Sample ID: 240-145599-2

Date Collected: 03/08/21 11:00
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 12:49	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 12:49	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 12:49	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 12:49	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 12:49	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 12:49	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 12:49	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 12:49	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 12:49	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 12:49	1

Client Sample ID: MSA-SW37B-030821

Date Collected: 03/08/21 11:00
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 12:49	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 12:49	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 12:49	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 12:49	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 12:49	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 12:49	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 12:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/11/21 12:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 12:49	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 12:49	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 12:49	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 12:49	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 12:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 12:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 12:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 12:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 12:49	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 12:49	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 12:49	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 12:49	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 12:49	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 12:49	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 12:49	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 12:49	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 12:49	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 12:49	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 12:49	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 12:49	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 12:49	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 12:49	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 12:49	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 12:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 12:49	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/11/21 12:49	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 12:49	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 12:49	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 12:49	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/11/21 12:49	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 12:49	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 12:49	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 12:49	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 12:49	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 12:49	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 12:49	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 12:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 12:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 12:49	1
Toluene	**0.19**	**J**	1.0	0.14	ug/L			03/11/21 12:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 12:49	1

Client Sample ID: MSA-SW37B-030821

Lab Sample ID: 240-145599-2

Date Collected: 03/08/21 11:00
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 12:49	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 12:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 12:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 12:49	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 12:49	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 12:49	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 12:49	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 12:49	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 12:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 12:49	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 12:49	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/11/21 12:49	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/11/21 12:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 12:49*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 12:49*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*03/11/21 12:49*	*1*
Dibromofluoromethane (Surr)	*107*		*78 - 129*		*03/11/21 12:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 130*		*03/11/21 12:49*	*1*
Toluene-d8 (Surr)	*88*		*69 - 122*		*03/11/21 12:49*	*1*

Client Sample ID: MSA-SW37C-030821

Lab Sample ID: 240-145599-3

Date Collected: 03/08/21 11:23
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 13:24	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 13:24	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 13:24	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 13:24	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 13:24	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 13:24	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 13:24	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 13:24	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 13:24	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 13:24	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 13:24	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 13:24	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 13:24	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 13:24	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 13:24	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 13:24	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 13:24	1
cis-1,2-Dichloroethene	**0.19**	**J**	1.0	0.16	ug/L			03/11/21 13:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 13:24	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 13:24	1

Client Sample ID: MSA-SW37C-030821

Date Collected: 03/08/21 11:23
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 13:24	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 13:24	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 13:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 13:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 13:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 13:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 13:24	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 13:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 13:24	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 13:24	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 13:24	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 13:24	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 13:24	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 13:24	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 13:24	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 13:24	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 13:24	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 13:24	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 13:24	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 13:24	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 13:24	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 13:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 13:24	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/11/21 13:24	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 13:24	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 13:24	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 13:24	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/11/21 13:24	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 13:24	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 13:24	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 13:24	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 13:24	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 13:24	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 13:24	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 13:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 13:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 13:24	1
Toluene	**0.19**	**J**	1.0	0.14	ug/L			03/11/21 13:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 13:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 13:24	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 13:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 13:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 13:24	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 13:24	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 13:24	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 13:24	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 13:24	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 13:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 13:24	1

Client Sample ID: MSA-SW37C-030821

Lab Sample ID: 240-145599-3

Date Collected: 03/08/21 11:23
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 13:24	1
Vinyl chloride	**0.28**	**J**	1.0	0.20	ug/L			03/11/21 13:24	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/11/21 13:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 13:24*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 13:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*47 - 134*		*03/11/21 13:24*	*1*
Dibromofluoromethane (Surr)	*107*		*78 - 129*		*03/11/21 13:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 130*		*03/11/21 13:24*	*1*
Toluene-d8 (Surr)	*88*		*69 - 122*		*03/11/21 13:24*	*1*

Client Sample ID: MSA-SW37D-030821

Lab Sample ID: 240-145599-4

Date Collected: 03/08/21 11:26
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 13:48	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 13:48	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 13:48	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 13:48	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 13:48	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 13:48	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 13:48	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 13:48	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 13:48	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 13:48	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 13:48	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 13:48	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 13:48	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 13:48	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 13:48	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 13:48	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 13:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/11/21 13:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 13:48	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 13:48	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 13:48	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 13:48	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 13:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 13:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 13:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 13:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 13:48	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 13:48	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 13:48	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 13:48	1

Client Sample ID: MSA-SW37D-030821

Date Collected: 03/08/21 11:26
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 13:48	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 13:48	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 13:48	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 13:48	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 13:48	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 13:48	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 13:48	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 13:48	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 13:48	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 13:48	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 13:48	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 13:48	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 13:48	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/11/21 13:48	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 13:48	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 13:48	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 13:48	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/11/21 13:48	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 13:48	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 13:48	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 13:48	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 13:48	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 13:48	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 13:48	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 13:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 13:48	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 13:48	1
Toluene	**0.21**	**J**	1.0	0.14	ug/L			03/11/21 13:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 13:48	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 13:48	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 13:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 13:48	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 13:48	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 13:48	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 13:48	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 13:48	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 13:48	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 13:48	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 13:48	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 13:48	1
Vinyl chloride	**0.21**	**J**	1.0	0.20	ug/L			03/11/21 13:48	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/11/21 13:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 13:48*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 13:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*		*03/11/21 13:48*	*1*
Dibromofluoromethane (Surr)	*105*		*78 - 129*		*03/11/21 13:48*	*1*

Client Sample ID: MSA-SW37D-030821

Lab Sample ID: 240-145599-4

Date Collected: 03/08/21 11:26
Matrix: Water
Date Received: 03/09/21 10:15

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 130*		*03/11/21 13:48*	*1*
Toluene-d8 (Surr)	*88*		*69 - 122*		*03/11/21 13:48*	*1*

Client Sample ID: MSA-SW38A-030821

Lab Sample ID: 240-145599-5

Date Collected: 03/08/21 09:51
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 14:13	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 14:13	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 14:13	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 14:13	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 14:13	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 14:13	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 14:13	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 14:13	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 14:13	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 14:13	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 14:13	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 14:13	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 14:13	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 14:13	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 14:13	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 14:13	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 14:13	1
cis-1,2-Dichloroethene	**0.23**	**J**	1.0	0.16	ug/L			03/11/21 14:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 14:13	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 14:13	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 14:13	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 14:13	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 14:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 14:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 14:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 14:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 14:13	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 14:13	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 14:13	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 14:13	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 14:13	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 14:13	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 14:13	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 14:13	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 14:13	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 14:13	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 14:13	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 14:13	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 14:13	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 14:13	1

Client Sample ID: MSA-SW38A-030821

Lab Sample ID: 240-145599-5

Date Collected: 03/08/21 09:51
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 14:13	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 14:13	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 14:13	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/11/21 14:13	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 14:13	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 14:13	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 14:13	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/11/21 14:13	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 14:13	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 14:13	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 14:13	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 14:13	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 14:13	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 14:13	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 14:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 14:13	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 14:13	1
Toluene	**0.16**	**J**	1.0	0.14	ug/L			03/11/21 14:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 14:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 14:13	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 14:13	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 14:13	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 14:13	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 14:13	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 14:13	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 14:13	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 14:13	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 14:13	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 14:13	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 14:13	1
Vinyl chloride	**0.54**	**J**	1.0	0.20	ug/L			03/11/21 14:13	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/11/21 14:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 14:13*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 14:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*47 - 134*		*03/11/21 14:13*	*1*
Dibromofluoromethane (Surr)	*105*		*78 - 129*		*03/11/21 14:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 130*		*03/11/21 14:13*	*1*
Toluene-d8 (Surr)	*88*		*69 - 122*		*03/11/21 14:13*	*1*

Client Sample ID: MSA-SW38B-030821

Lab Sample ID: 240-145599-6

Date Collected: 03/08/21 09:56
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 14:37	1

Client Sample ID: MSA-SW38B-030821

Date Collected: 03/08/21 09:56
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 14:37	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 14:37	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 14:37	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 14:37	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 14:37	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 14:37	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 14:37	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 14:37	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 14:37	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 14:37	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 14:37	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 14:37	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 14:37	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 14:37	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 14:37	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 14:37	1
cis-1,2-Dichloroethene	**0.23**	**J**	1.0	0.16	ug/L			03/11/21 14:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 14:37	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 14:37	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 14:37	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 14:37	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 14:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 14:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 14:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 14:37	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 14:37	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 14:37	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 14:37	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 14:37	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 14:37	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 14:37	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 14:37	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 14:37	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 14:37	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 14:37	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 14:37	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 14:37	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 14:37	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 14:37	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 14:37	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 14:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 14:37	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/11/21 14:37	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 14:37	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 14:37	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 14:37	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/11/21 14:37	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 14:37	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 14:37	1

Client Sample ID: MSA-SW38B-030821

Lab Sample ID: 240-145599-6

Date Collected: 03/08/21 09:56
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 14:37	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 14:37	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 14:37	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 14:37	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 14:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 14:37	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 14:37	1
Toluene	**0.21**	**J**	1.0	0.14	ug/L			03/11/21 14:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 14:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 14:37	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 14:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 14:37	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 14:37	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 14:37	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 14:37	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 14:37	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 14:37	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 14:37	1
1,2,4-Trimethylbenzene	**0.11**	**J**	1.0	0.070	ug/L			03/11/21 14:37	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 14:37	1
Vinyl chloride	**0.59**	**J**	1.0	0.20	ug/L			03/11/21 14:37	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/11/21 14:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 14:37*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 14:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*		*03/11/21 14:37*	*1*
Dibromofluoromethane (Surr)	*103*		*78 - 129*		*03/11/21 14:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 130*		*03/11/21 14:37*	*1*
Toluene-d8 (Surr)	*89*		*69 - 122*		*03/11/21 14:37*	*1*

Client Sample ID: MSA-SW38C-030821

Lab Sample ID: 240-145599-7

Date Collected: 03/08/21 09:59
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 15:02	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 15:02	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 15:02	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 15:02	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 15:02	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 15:02	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 15:02	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 15:02	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 15:02	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 15:02	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 15:02	1

Client Sample ID: MSA-SW38C-030821

Date Collected: 03/08/21 09:59
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 15:02	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 15:02	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 15:02	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 15:02	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 15:02	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 15:02	1
cis-1,2-Dichloroethene	**0.17**	**J**	1.0	0.16	ug/L			03/11/21 15:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 15:02	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 15:02	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 15:02	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 15:02	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 15:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 15:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 15:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 15:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 15:02	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 15:02	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 15:02	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 15:02	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 15:02	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 15:02	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 15:02	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 15:02	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 15:02	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 15:02	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 15:02	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 15:02	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 15:02	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 15:02	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 15:02	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 15:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 15:02	1
m-Xylene & p-Xylene	**0.25**	**J**	2.0	0.080	ug/L			03/11/21 15:02	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 15:02	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 15:02	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 15:02	1
o-Xylene	**0.12**	**J**	1.0	0.090	ug/L			03/11/21 15:02	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 15:02	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 15:02	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 15:02	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 15:02	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 15:02	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 15:02	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 15:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 15:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 15:02	1
Toluene	**0.33**	**J**	1.0	0.14	ug/L			03/11/21 15:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 15:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 15:02	1

Client Sample ID: MSA-SW38C-030821

Lab Sample ID: 240-145599-7

Date Collected: 03/08/21 09:59
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 15:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 15:02	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 15:02	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 15:02	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 15:02	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 15:02	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 15:02	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 15:02	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 15:02	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 15:02	1
Vinyl chloride	**0.45**	**J**	1.0	0.20	ug/L			03/11/21 15:02	1
Xylenes, Total	**0.37**	**J**	2.0	0.15	ug/L			03/11/21 15:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 15:02*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 15:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*		*03/11/21 15:02*	*1*
Dibromofluoromethane (Surr)	*106*		*78 - 129*		*03/11/21 15:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 130*		*03/11/21 15:02*	*1*
Toluene-d8 (Surr)	*87*		*69 - 122*		*03/11/21 15:02*	*1*

Client Sample ID: MSA-SW38D-030821

Lab Sample ID: 240-145599-8

Date Collected: 03/08/21 10:02
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 15:27	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 15:27	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 15:27	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 15:27	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 15:27	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 15:27	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 15:27	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 15:27	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 15:27	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 15:27	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 15:27	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 15:27	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 15:27	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 15:27	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 15:27	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 15:27	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 15:27	1
cis-1,2-Dichloroethene	**0.18**	**J**	1.0	0.16	ug/L			03/11/21 15:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 15:27	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 15:27	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 15:27	1

Client Sample ID: MSA-SW38D-030821

Date Collected: 03/08/21 10:02
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 15:27	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 15:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 15:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 15:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 15:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 15:27	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 15:27	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 15:27	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 15:27	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 15:27	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 15:27	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 15:27	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 15:27	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 15:27	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 15:27	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 15:27	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 15:27	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 15:27	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 15:27	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 15:27	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 15:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 15:27	1
m-Xylene & p-Xylene	**0.19**	**J**	2.0	0.080	ug/L			03/11/21 15:27	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 15:27	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 15:27	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 15:27	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/11/21 15:27	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 15:27	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 15:27	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 15:27	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 15:27	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 15:27	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 15:27	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 15:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 15:27	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 15:27	1
Toluene	**0.21**	**J**	1.0	0.14	ug/L			03/11/21 15:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 15:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 15:27	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 15:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 15:27	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 15:27	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 15:27	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 15:27	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 15:27	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 15:27	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 15:27	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 15:27	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 15:27	1

Client Sample ID: MSA-SW38D-030821

Lab Sample ID: 240-145599-8

Date Collected: 03/08/21 10:02
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**0.45**	**J**	1.0	0.20	ug/L			03/11/21 15:27	1
Xylenes, Total	**0.19**	**J**	2.0	0.15	ug/L			03/11/21 15:27	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 15:27*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 15:27*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*47 - 134*		*03/11/21 15:27*	*1*
Dibromofluoromethane (Surr)	*102*		*78 - 129*		*03/11/21 15:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 130*		*03/11/21 15:27*	*1*
Toluene-d8 (Surr)	*89*		*69 - 122*		*03/11/21 15:27*	*1*

Client Sample ID: MSA-SW40A-030821

Lab Sample ID: 240-145599-9

Date Collected: 03/08/21 10:13
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 15:51	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 15:51	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 15:51	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 15:51	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 15:51	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 15:51	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 15:51	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 15:51	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 15:51	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 15:51	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 15:51	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 15:51	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 15:51	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 15:51	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 15:51	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 15:51	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 15:51	1
cis-1,2-Dichloroethene	**2.1**		1.0	0.16	ug/L			03/11/21 15:51	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 15:51	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 15:51	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 15:51	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 15:51	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 15:51	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 15:51	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 15:51	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 15:51	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 15:51	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 15:51	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 15:51	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 15:51	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 15:51	1

Client Sample ID: MSA-SW40A-030821

Date Collected: 03/08/21 10:13
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 15:51	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 15:51	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 15:51	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 15:51	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 15:51	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 15:51	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 15:51	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 15:51	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 15:51	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 15:51	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 15:51	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 15:51	1
m-Xylene & p-Xylene	**0.13**	**J**	2.0	0.080	ug/L			03/11/21 15:51	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 15:51	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 15:51	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 15:51	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/11/21 15:51	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 15:51	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 15:51	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 15:51	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 15:51	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 15:51	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 15:51	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 15:51	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 15:51	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 15:51	1
Toluene	**0.19**	**J**	1.0	0.14	ug/L			03/11/21 15:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 15:51	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 15:51	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 15:51	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 15:51	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 15:51	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 15:51	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 15:51	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 15:51	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 15:51	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 15:51	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 15:51	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 15:51	1
Vinyl chloride	**4.5**		1.0	0.20	ug/L			03/11/21 15:51	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/11/21 15:51	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 15:51*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 15:51*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*03/11/21 15:51*	*1*
Dibromofluoromethane (Surr)	*104*		*78 - 129*		*03/11/21 15:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 130*		*03/11/21 15:51*	*1*

Client Sample ID: MSA-SW40A-030821

Lab Sample ID: 240-145599-9

Date Collected: 03/08/21 10:13
Matrix: Water
Date Received: 03/09/21 10:15

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*69 - 122*		*03/11/21 15:51*	*1*

Client Sample ID: MSA-SW40B-030821

Lab Sample ID: 240-145599-10

Date Collected: 03/08/21 10:17
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 16:16	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 16:16	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 16:16	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 16:16	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 16:16	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 16:16	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 16:16	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 16:16	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 16:16	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 16:16	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 16:16	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 16:16	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 16:16	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 16:16	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 16:16	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 16:16	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 16:16	1
cis-1,2-Dichloroethene	**0.26**	**J**	1.0	0.16	ug/L			03/11/21 16:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 16:16	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 16:16	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 16:16	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 16:16	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 16:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 16:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 16:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 16:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 16:16	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 16:16	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 16:16	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 16:16	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 16:16	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 16:16	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 16:16	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 16:16	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 16:16	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 16:16	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 16:16	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 16:16	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 16:16	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 16:16	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 16:16	1

Client Sample ID: MSA-SW40B-030821

Lab Sample ID: 240-145599-10

Date Collected: 03/08/21 10:17
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 16:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 16:16	1
m-Xylene & p-Xylene	**0.38**	**J**	2.0	0.080	ug/L			03/11/21 16:16	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 16:16	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 16:16	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 16:16	1
o-Xylene	**0.16**	**J**	1.0	0.090	ug/L			03/11/21 16:16	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 16:16	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 16:16	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 16:16	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 16:16	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 16:16	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 16:16	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 16:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 16:16	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 16:16	1
Toluene	**0.47**	**J**	1.0	0.14	ug/L			03/11/21 16:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 16:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 16:16	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 16:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 16:16	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 16:16	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 16:16	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 16:16	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 16:16	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 16:16	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 16:16	1
1,2,4-Trimethylbenzene	**0.16**	**J**	1.0	0.070	ug/L			03/11/21 16:16	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 16:16	1
Vinyl chloride	**0.62**	**J**	1.0	0.20	ug/L			03/11/21 16:16	1
Xylenes, Total	**0.54**	**J**	2.0	0.15	ug/L			03/11/21 16:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 16:16*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 16:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*03/11/21 16:16*	*1*
Dibromofluoromethane (Surr)	*105*		*78 - 129*		*03/11/21 16:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 130*		*03/11/21 16:16*	*1*
Toluene-d8 (Surr)	*87*		*69 - 122*		*03/11/21 16:16*	*1*

Client Sample ID: MSA-SW40C-030821

Lab Sample ID: 240-145599-11

Date Collected: 03/08/21 10:19
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 16:41	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 16:41	1

Client Sample ID: MSA-SW40C-030821

Date Collected: 03/08/21 10:19
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 16:41	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 16:41	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 16:41	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 16:41	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 16:41	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 16:41	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 16:41	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 16:41	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 16:41	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 16:41	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 16:41	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 16:41	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 16:41	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 16:41	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 16:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/11/21 16:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 16:41	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 16:41	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 16:41	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 16:41	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 16:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 16:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 16:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 16:41	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 16:41	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 16:41	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 16:41	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 16:41	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 16:41	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 16:41	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 16:41	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 16:41	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 16:41	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 16:41	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 16:41	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 16:41	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 16:41	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 16:41	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 16:41	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 16:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 16:41	1
m-Xylene & p-Xylene	**0.32**	**J**	2.0	0.080	ug/L			03/11/21 16:41	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 16:41	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 16:41	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 16:41	1
o-Xylene	**0.11**	**J**	1.0	0.090	ug/L			03/11/21 16:41	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 16:41	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 16:41	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 16:41	1

Client Sample ID: MSA-SW40C-030821

Date Collected: 03/08/21 10:19
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 16:41	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 16:41	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 16:41	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 16:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 16:41	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 16:41	1
Toluene	**0.38**	**J**	1.0	0.14	ug/L			03/11/21 16:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 16:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 16:41	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 16:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 16:41	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 16:41	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 16:41	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 16:41	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 16:41	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 16:41	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 16:41	1
1,2,4-Trimethylbenzene	**0.16**	**J**	1.0	0.070	ug/L			03/11/21 16:41	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 16:41	1
Vinyl chloride	**0.21**	**J**	1.0	0.20	ug/L			03/11/21 16:41	1
Xylenes, Total	**0.43**	**J**	2.0	0.15	ug/L			03/11/21 16:41	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 16:41*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 16:41*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*		*03/11/21 16:41*	*1*
Dibromofluoromethane (Surr)	*107*		*78 - 129*		*03/11/21 16:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 130*		*03/11/21 16:41*	*1*
Toluene-d8 (Surr)	*89*		*69 - 122*		*03/11/21 16:41*	*1*

Client Sample ID: MSA-SW40D-030821

Date Collected: 03/08/21 10:23
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-12

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 17:05	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 17:05	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 17:05	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 17:05	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 17:05	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 17:05	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 17:05	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 17:05	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 17:05	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 17:05	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 17:05	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 17:05	1

Client Sample ID: MSA-SW40D-030821

Date Collected: 03/08/21 10:23
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 17:05	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 17:05	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 17:05	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 17:05	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 17:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/11/21 17:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 17:05	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 17:05	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 17:05	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 17:05	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 17:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 17:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 17:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 17:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 17:05	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 17:05	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 17:05	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 17:05	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 17:05	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 17:05	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 17:05	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 17:05	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 17:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 17:05	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 17:05	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 17:05	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 17:05	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 17:05	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 17:05	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 17:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 17:05	1
m-Xylene & p-Xylene	**0.27**	**J**	2.0	0.080	ug/L			03/11/21 17:05	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 17:05	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 17:05	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 17:05	1
o-Xylene	**0.11**	**J**	1.0	0.090	ug/L			03/11/21 17:05	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 17:05	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 17:05	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 17:05	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 17:05	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 17:05	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 17:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 17:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 17:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 17:05	1
Toluene	**0.30**	**J**	1.0	0.14	ug/L			03/11/21 17:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 17:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 17:05	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 17:05	1

Client Sample ID: MSA-SW40D-030821

Lab Sample ID: 240-145599-12

Date Collected: 03/08/21 10:23
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 17:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 17:05	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 17:05	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 17:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 17:05	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 17:05	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 17:05	1
1,2,4-Trimethylbenzene	**0.11**	**J**	1.0	0.070	ug/L			03/11/21 17:05	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 17:05	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/11/21 17:05	1
Xylenes, Total	**0.38**	**J**	2.0	0.15	ug/L			03/11/21 17:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 17:05*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 17:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*		*03/11/21 17:05*	*1*
Dibromofluoromethane (Surr)	*108*		*78 - 129*		*03/11/21 17:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 130*		*03/11/21 17:05*	*1*
Toluene-d8 (Surr)	*89*		*69 - 122*		*03/11/21 17:05*	*1*

Client Sample ID: MSA-SW41A-030821

Lab Sample ID: 240-145599-13

Date Collected: 03/08/21 09:34
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 17:30	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 17:30	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 17:30	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 17:30	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 17:30	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 17:30	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 17:30	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 17:30	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 17:30	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 17:30	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 17:30	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 17:30	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 17:30	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 17:30	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 17:30	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 17:30	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 17:30	1
cis-1,2-Dichloroethene	**0.27**	**J**	1.0	0.16	ug/L			03/11/21 17:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 17:30	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 17:30	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 17:30	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 17:30	1

Client Sample ID: MSA-SW41A-030821

Date Collected: 03/08/21 09:34
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 17:30	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 17:30	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 17:30	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 17:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 17:30	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 17:30	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 17:30	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 17:30	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 17:30	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 17:30	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 17:30	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 17:30	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 17:30	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 17:30	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 17:30	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 17:30	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 17:30	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 17:30	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 17:30	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 17:30	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 17:30	1
m-Xylene & p-Xylene	**0.15**	**J**	2.0	0.080	ug/L			03/11/21 17:30	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 17:30	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 17:30	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 17:30	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/11/21 17:30	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 17:30	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 17:30	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 17:30	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 17:30	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 17:30	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 17:30	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 17:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 17:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 17:30	1
Toluene	**0.18**	**J**	1.0	0.14	ug/L			03/11/21 17:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 17:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 17:30	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 17:30	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 17:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 17:30	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 17:30	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 17:30	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 17:30	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 17:30	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 17:30	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 17:30	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 17:30	1
Vinyl chloride	**0.36**	**J**	1.0	0.20	ug/L			03/11/21 17:30	1

Client Sample ID: MSA-SW41A-030821

Lab Sample ID: 240-145599-13

Date Collected: 03/08/21 09:34
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**0.15**	**J**	2.0	0.15	ug/L			03/11/21 17:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 17:30*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 17:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*03/11/21 17:30*	*1*
Dibromofluoromethane (Surr)	*100*		*78 - 129*		*03/11/21 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 130*		*03/11/21 17:30*	*1*
Toluene-d8 (Surr)	*87*		*69 - 122*		*03/11/21 17:30*	*1*

Client Sample ID: MSA-SW41B-030821

Lab Sample ID: 240-145599-14

Date Collected: 03/08/21 09:36
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 17:54	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 17:54	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 17:54	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 17:54	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 17:54	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 17:54	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 17:54	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 17:54	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 17:54	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 17:54	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 17:54	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 17:54	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 17:54	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 17:54	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 17:54	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 17:54	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 17:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/11/21 17:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 17:54	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 17:54	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 17:54	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 17:54	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 17:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 17:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 17:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 17:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 17:54	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 17:54	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 17:54	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 17:54	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 17:54	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 17:54	1

Client Sample ID: MSA-SW41B-030821

Date Collected: 03/08/21 09:36
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 17:54	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 17:54	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 17:54	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 17:54	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 17:54	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 17:54	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 17:54	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 17:54	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 17:54	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 17:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 17:54	1
m-Xylene & p-Xylene	**0.22**	**J**	2.0	0.080	ug/L			03/11/21 17:54	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 17:54	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 17:54	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 17:54	1
o-Xylene	**0.12**	**J**	1.0	0.090	ug/L			03/11/21 17:54	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 17:54	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 17:54	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 17:54	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 17:54	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 17:54	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 17:54	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 17:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 17:54	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 17:54	1
Toluene	**0.30**	**J**	1.0	0.14	ug/L			03/11/21 17:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 17:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 17:54	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 17:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 17:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 17:54	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 17:54	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 17:54	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 17:54	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 17:54	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 17:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 17:54	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 17:54	1
Vinyl chloride	**0.24**	**J**	1.0	0.20	ug/L			03/11/21 17:54	1
Xylenes, Total	**0.34**	**J**	2.0	0.15	ug/L			03/11/21 17:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 17:54*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 17:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*03/11/21 17:54*	*1*
Dibromofluoromethane (Surr)	*101*		*78 - 129*		*03/11/21 17:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 130*		*03/11/21 17:54*	*1*
Toluene-d8 (Surr)	*87*		*69 - 122*		*03/11/21 17:54*	*1*

Client Sample ID: MSA-SW41C-030821

Date Collected: 03/08/21 09:39
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-15

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 18:19	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 18:19	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 18:19	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 18:19	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 18:19	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 18:19	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 18:19	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 18:19	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 18:19	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 18:19	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 18:19	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 18:19	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 18:19	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 18:19	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 18:19	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 18:19	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 18:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/11/21 18:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 18:19	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 18:19	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 18:19	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 18:19	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 18:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 18:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 18:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 18:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 18:19	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 18:19	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 18:19	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 18:19	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 18:19	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 18:19	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 18:19	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 18:19	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 18:19	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 18:19	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 18:19	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 18:19	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 18:19	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 18:19	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 18:19	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 18:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 18:19	1
m-Xylene & p-Xylene	**0.18**	**J**	2.0	0.080	ug/L			03/11/21 18:19	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 18:19	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 18:19	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 18:19	1
o-Xylene	**0.10**	**J**	1.0	0.090	ug/L			03/11/21 18:19	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 18:19	1

Client Sample ID: MSA-SW41C-030821

Lab Sample ID: 240-145599-15

Date Collected: 03/08/21 09:39
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 18:19	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 18:19	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 18:19	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 18:19	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 18:19	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 18:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 18:19	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 18:19	1
Toluene	**0.26**	**J**	1.0	0.14	ug/L			03/11/21 18:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 18:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 18:19	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 18:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 18:19	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 18:19	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 18:19	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 18:19	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 18:19	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 18:19	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 18:19	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 18:19	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 18:19	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/11/21 18:19	1
Xylenes, Total	**0.28**	**J**	2.0	0.15	ug/L			03/11/21 18:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 18:19*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 18:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*		*03/11/21 18:19*	*1*
Dibromofluoromethane (Surr)	*105*		*78 - 129*		*03/11/21 18:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 130*		*03/11/21 18:19*	*1*
Toluene-d8 (Surr)	*89*		*69 - 122*		*03/11/21 18:19*	*1*

Client Sample ID: MSA-SW41D-030821

Lab Sample ID: 240-145599-16

Date Collected: 03/08/21 09:41
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 18:43	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 18:43	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 18:43	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 18:43	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 18:43	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 18:43	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 18:43	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 18:43	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 18:43	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 18:43	1

Client Sample ID: MSA-SW41D-030821

Date Collected: 03/08/21 09:41
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 18:43	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 18:43	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 18:43	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 18:43	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 18:43	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 18:43	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 18:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/11/21 18:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 18:43	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 18:43	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 18:43	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 18:43	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 18:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 18:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 18:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 18:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 18:43	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 18:43	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 18:43	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 18:43	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 18:43	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 18:43	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 18:43	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 18:43	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 18:43	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 18:43	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 18:43	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 18:43	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 18:43	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 18:43	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 18:43	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 18:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 18:43	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/11/21 18:43	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 18:43	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 18:43	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 18:43	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/11/21 18:43	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 18:43	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 18:43	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 18:43	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 18:43	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 18:43	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 18:43	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 18:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 18:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 18:43	1
Toluene	**0.25**	**J**	1.0	0.14	ug/L			03/11/21 18:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 18:43	1

Client Sample ID: MSA-SW41D-030821

Lab Sample ID: 240-145599-16

Date Collected: 03/08/21 09:41
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 18:43	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 18:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 18:43	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 18:43	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 18:43	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 18:43	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 18:43	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 18:43	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 18:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 18:43	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 18:43	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/11/21 18:43	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/11/21 18:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/11/21 18:43*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 18:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*47 - 134*		*03/11/21 18:43*	*1*
Dibromofluoromethane (Surr)	*105*		*78 - 129*		*03/11/21 18:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 130*		*03/11/21 18:43*	*1*
Toluene-d8 (Surr)	*88*		*69 - 122*		*03/11/21 18:43*	*1*

Client Sample ID: MSA-SW42A-030821

Lab Sample ID: 240-145599-17

Date Collected: 03/08/21 10:39
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 13:57	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 13:57	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 13:57	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 13:57	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 13:57	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 13:57	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 13:57	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 13:57	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 13:57	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 13:57	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 13:57	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 13:57	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 13:57	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 13:57	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 13:57	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 13:57	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 13:57	1
cis-1,2-Dichloroethene	**1.4**		1.0	0.16	ug/L			03/16/21 13:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 13:57	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 13:57	1

Client Sample ID: MSA-SW42A-030821

Date Collected: 03/08/21 10:39
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-17

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 13:57	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 13:57	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 13:57	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 13:57	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 13:57	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 13:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 13:57	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 13:57	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 13:57	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 13:57	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 13:57	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 13:57	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 13:57	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 13:57	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 13:57	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 13:57	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 13:57	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 13:57	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 13:57	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 13:57	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 13:57	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 13:57	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 13:57	1
m-Xylene & p-Xylene	**0.29**	**J**	2.0	0.080	ug/L			03/16/21 13:57	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 13:57	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 13:57	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 13:57	1
o-Xylene	**0.15**	**J**	1.0	0.090	ug/L			03/16/21 13:57	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 13:57	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 13:57	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 13:57	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 13:57	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 13:57	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 13:57	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 13:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 13:57	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 13:57	1
Toluene	**0.36**	**J**	1.0	0.14	ug/L			03/16/21 13:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 13:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 13:57	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 13:57	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 13:57	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 13:57	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 13:57	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 13:57	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 13:57	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 13:57	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 13:57	1
1,2,4-Trimethylbenzene	**0.14**	**J**	1.0	0.070	ug/L			03/16/21 13:57	1

Client Sample ID: MSA-SW42A-030821

Lab Sample ID: 240-145599-17

Date Collected: 03/08/21 10:39
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 13:57	1
Vinyl chloride	**2.1**		1.0	0.20	ug/L			03/17/21 12:01	1
Xylenes, Total	**0.44**	**J**	2.0	0.15	ug/L			03/16/21 13:57	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 13:57*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 13:57*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/17/21 12:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*47 - 134*		*03/16/21 13:57*	*1*
4-Bromofluorobenzene (Surr)	*118*		*47 - 134*		*03/17/21 12:01*	*1*
Dibromofluoromethane (Surr)	*100*		*78 - 129*		*03/16/21 13:57*	*1*
Dibromofluoromethane (Surr)	*92*		*78 - 129*		*03/17/21 12:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 130*		*03/16/21 13:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 130*		*03/17/21 12:01*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*03/16/21 13:57*	*1*
Toluene-d8 (Surr)	*99*		*69 - 122*		*03/17/21 12:01*	*1*

Client Sample ID: MSA-SW42B-030821

Lab Sample ID: 240-145599-18

Date Collected: 03/08/21 10:42
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 14:21	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 14:21	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 14:21	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 14:21	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 14:21	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 14:21	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 14:21	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 14:21	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 14:21	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 14:21	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 14:21	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 14:21	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 14:21	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 14:21	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 14:21	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 14:21	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 14:21	1
cis-1,2-Dichloroethene	**0.55**	**J**	1.0	0.16	ug/L			03/16/21 14:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 14:21	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 14:21	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 14:21	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 14:21	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 14:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 14:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 14:21	1

Client Sample ID: MSA-SW42B-030821

Date Collected: 03/08/21 10:42
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-18

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 14:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 14:21	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 14:21	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 14:21	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 14:21	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 14:21	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 14:21	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 14:21	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 14:21	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 14:21	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 14:21	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 14:21	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 14:21	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 14:21	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 14:21	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 14:21	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 14:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 14:21	1
m-Xylene & p-Xylene	**0.41**	**J**	2.0	0.080	ug/L			03/16/21 14:21	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 14:21	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 14:21	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 14:21	1
o-Xylene	**0.16**	**J**	1.0	0.090	ug/L			03/16/21 14:21	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 14:21	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 14:21	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 14:21	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 14:21	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 14:21	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 14:21	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 14:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 14:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 14:21	1
Toluene	**0.44**	**J**	1.0	0.14	ug/L			03/16/21 14:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 14:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 14:21	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 14:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 14:21	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 14:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 14:21	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 14:21	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 14:21	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 14:21	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 14:21	1
1,2,4-Trimethylbenzene	**0.19**	**J**	1.0	0.070	ug/L			03/16/21 14:21	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 14:21	1
Vinyl chloride	**0.88**	**J**	1.0	0.20	ug/L			03/17/21 12:23	1
Xylenes, Total	**0.57**	**J**	2.0	0.15	ug/L			03/16/21 14:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 14:21*	*1*

Client Sample ID: MSA-SW42B-030821

Lab Sample ID: 240-145599-18

Date Collected: 03/08/21 10:42
Matrix: Water
Date Received: 03/09/21 10:15

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

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					03/16/21 14:21	1
Tentatively Identified Compound	None		ug/L					03/17/21 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		47 - 134		03/16/21 14:21	1
4-Bromofluorobenzene (Surr)	120		47 - 134		03/17/21 12:23	1
Dibromofluoromethane (Surr)	99		78 - 129		03/16/21 14:21	1
Dibromofluoromethane (Surr)	93		78 - 129		03/17/21 12:23	1
1,2-Dichloroethane-d4 (Surr)	102		75 - 130		03/16/21 14:21	1
1,2-Dichloroethane-d4 (Surr)	94		75 - 130		03/17/21 12:23	1
Toluene-d8 (Surr)	94		69 - 122		03/16/21 14:21	1
Toluene-d8 (Surr)	101		69 - 122		03/17/21 12:23	1

Client Sample ID: MSA-SW42C-030821

Lab Sample ID: 240-145599-19

Date Collected: 03/08/21 10:45
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 14:46	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 14:46	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 14:46	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 14:46	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 14:46	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 14:46	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 14:46	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 14:46	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 14:46	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 14:46	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 14:46	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 14:46	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 14:46	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 14:46	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 14:46	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 14:46	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 14:46	1
cis-1,2-Dichloroethene	**0.55**	**J**	1.0	0.16	ug/L			03/16/21 14:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 14:46	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 14:46	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 14:46	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 14:46	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 14:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 14:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 14:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 14:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 14:46	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 14:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 14:46	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 14:46	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 14:46	1

Client Sample ID: MSA-SW42C-030821

Date Collected: 03/08/21 10:45
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-19

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 14:46	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 14:46	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 14:46	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 14:46	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 14:46	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 14:46	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 14:46	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 14:46	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 14:46	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 14:46	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 14:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 14:46	1
m-Xylene & p-Xylene	**0.30**	**J**	2.0	0.080	ug/L			03/16/21 14:46	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 14:46	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 14:46	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 14:46	1
o-Xylene	**0.13**	**J**	1.0	0.090	ug/L			03/16/21 14:46	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 14:46	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 14:46	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 14:46	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 14:46	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 14:46	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 14:46	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 14:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 14:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 14:46	1
Toluene	**0.35**	**J**	1.0	0.14	ug/L			03/16/21 14:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 14:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 14:46	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 14:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 14:46	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 14:46	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 14:46	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 14:46	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 14:46	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 14:46	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 14:46	1
1,2,4-Trimethylbenzene	**0.16**	**J**	1.0	0.070	ug/L			03/16/21 14:46	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 14:46	1
Vinyl chloride	**0.86**	**J**	1.0	0.20	ug/L			03/17/21 12:46	1
Xylenes, Total	**0.43**	**J**	2.0	0.15	ug/L			03/16/21 14:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 14:46*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 14:46*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/17/21 12:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*03/16/21 14:46*	*1*
4-Bromofluorobenzene (Surr)	*120*		*47 - 134*		*03/17/21 12:46*	*1*

Client Sample ID: MSA-SW42C-030821

Lab Sample ID: 240-145599-19

Date Collected: 03/08/21 10:45
Matrix: Water
Date Received: 03/09/21 10:15

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*78 - 129*		*03/16/21 14:46*	*1*
Dibromofluoromethane (Surr)	*93*		*78 - 129*		*03/17/21 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 130*		*03/16/21 14:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 130*		*03/17/21 12:46*	*1*
Toluene-d8 (Surr)	*91*		*69 - 122*		*03/16/21 14:46*	*1*
Toluene-d8 (Surr)	*101*		*69 - 122*		*03/17/21 12:46*	*1*

Client Sample ID: MSA-SW42D-030821

Lab Sample ID: 240-145599-20

Date Collected: 03/08/21 10:49
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 01:05	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 01:05	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 01:05	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 01:05	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 01:05	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 01:05	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 01:05	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 01:05	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 01:05	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 01:05	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 01:05	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 01:05	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 01:05	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 01:05	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 01:05	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 01:05	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 01:05	1
cis-1,2-Dichloroethene	**0.31**	**J**	1.0	0.16	ug/L			03/16/21 01:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 01:05	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 01:05	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 01:05	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 01:05	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 01:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 01:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 01:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 01:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 01:05	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 01:05	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 01:05	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 01:05	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 01:05	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 01:05	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 01:05	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 01:05	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 01:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 01:05	1

Client Sample ID: MSA-SW42D-030821

Date Collected: 03/08/21 10:49
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-20

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 01:05	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 01:05	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 01:05	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 01:05	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 01:05	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 01:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 01:05	1
m-Xylene & p-Xylene	**0.28**	**J**	2.0	0.080	ug/L			03/16/21 01:05	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 01:05	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 01:05	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 01:05	1
o-Xylene	**0.12**	**J**	1.0	0.090	ug/L			03/16/21 01:05	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 01:05	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 01:05	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 01:05	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 01:05	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 01:05	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 01:05	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 01:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 01:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 01:05	1
Toluene	**0.33**	**J**	1.0	0.14	ug/L			03/16/21 01:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 01:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 01:05	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 01:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 01:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 01:05	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 01:05	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 01:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 01:05	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 01:05	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 01:05	1
1,2,4-Trimethylbenzene	**0.13**	**J**	1.0	0.070	ug/L			03/16/21 01:05	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 01:05	1
Vinyl chloride	**0.78**	**J**	1.0	0.20	ug/L			03/16/21 01:05	1
Xylenes, Total	**0.40**	**J**	2.0	0.15	ug/L			03/16/21 01:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 01:05*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 01:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*47 - 134*		*03/16/21 01:05*	*1*
Dibromofluoromethane (Surr)	*110*		*78 - 129*		*03/16/21 01:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*75 - 130*		*03/16/21 01:05*	*1*
Toluene-d8 (Surr)	*105*		*69 - 122*		*03/16/21 01:05*	*1*

Client Sample ID: MSA-SW43A-030821

Date Collected: 03/08/21 09:14
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-21

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 01:34	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 01:34	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 01:34	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 01:34	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 01:34	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 01:34	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 01:34	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 01:34	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 01:34	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 01:34	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 01:34	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 01:34	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 01:34	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 01:34	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 01:34	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 01:34	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 01:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/16/21 01:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 01:34	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 01:34	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 01:34	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 01:34	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 01:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 01:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 01:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 01:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 01:34	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 01:34	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 01:34	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 01:34	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 01:34	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 01:34	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 01:34	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 01:34	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 01:34	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 01:34	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 01:34	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 01:34	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 01:34	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 01:34	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 01:34	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 01:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 01:34	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/16/21 01:34	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 01:34	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 01:34	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 01:34	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/16/21 01:34	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 01:34	1

Client Sample ID: MSA-SW43A-030821

Lab Sample ID: 240-145599-21

Date Collected: 03/08/21 09:14
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 01:34	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 01:34	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 01:34	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 01:34	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 01:34	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 01:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 01:34	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 01:34	1
Toluene	**0.16**	**J**	1.0	0.14	ug/L			03/16/21 01:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 01:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 01:34	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 01:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 01:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 01:34	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 01:34	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 01:34	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 01:34	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 01:34	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 01:34	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/16/21 01:34	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 01:34	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/16/21 01:34	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/16/21 01:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 01:34*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 01:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*		*03/16/21 01:34*	*1*
Dibromofluoromethane (Surr)	*112*		*78 - 129*		*03/16/21 01:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 130*		*03/16/21 01:34*	*1*
Toluene-d8 (Surr)	*105*		*69 - 122*		*03/16/21 01:34*	*1*

Client Sample ID: MSA-SW43B-030821

Lab Sample ID: 240-145599-22

Date Collected: 03/08/21 09:16
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 02:09	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 02:09	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 02:09	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 02:09	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 02:09	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 02:09	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 02:09	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 02:09	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 02:09	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 02:09	1

Client Sample ID: MSA-SW43B-030821

Date Collected: 03/08/21 09:16
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-22

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 02:09	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 02:09	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 02:09	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 02:09	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 02:09	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 02:09	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 02:09	1
cis-1,2-Dichloroethene	**0.16**	**J**	1.0	0.16	ug/L			03/16/21 02:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 02:09	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 02:09	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 02:09	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 02:09	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 02:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 02:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 02:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 02:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 02:09	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 02:09	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 02:09	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 02:09	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 02:09	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 02:09	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 02:09	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 02:09	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 02:09	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 02:09	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 02:09	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 02:09	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 02:09	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 02:09	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 02:09	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 02:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 02:09	1
m-Xylene & p-Xylene	**0.24**	**J**	2.0	0.080	ug/L			03/16/21 02:09	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 02:09	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 02:09	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 02:09	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/16/21 02:09	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 02:09	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 02:09	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 02:09	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 02:09	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 02:09	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 02:09	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 02:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 02:09	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 02:09	1
Toluene	**0.28**	**J**	1.0	0.14	ug/L			03/16/21 02:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 02:09	1

Client Sample ID: MSA-SW43B-030821

Lab Sample ID: 240-145599-22

Date Collected: 03/08/21 09:16
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 02:09	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 02:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 02:09	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 02:09	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 02:09	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 02:09	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 02:09	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 02:09	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 02:09	1
1,2,4-Trimethylbenzene	**0.10**	**J**	1.0	0.070	ug/L			03/16/21 02:09	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 02:09	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/16/21 02:09	1
Xylenes, Total	**0.24**	**J**	2.0	0.15	ug/L			03/16/21 02:09	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 02:09*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 02:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*		*03/16/21 02:09*	*1*
Dibromofluoromethane (Surr)	*114*		*78 - 129*		*03/16/21 02:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 130*		*03/16/21 02:09*	*1*
Toluene-d8 (Surr)	*106*		*69 - 122*		*03/16/21 02:09*	*1*

Client Sample ID: MSA-SW43C-030821

Lab Sample ID: 240-145599-23

Date Collected: 03/08/21 09:19
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 02:36	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 02:36	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 02:36	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 02:36	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 02:36	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 02:36	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 02:36	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 02:36	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 02:36	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 02:36	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 02:36	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 02:36	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 02:36	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 02:36	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 02:36	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 02:36	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 02:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/16/21 02:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 02:36	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 02:36	1

Client Sample ID: MSA-SW43C-030821

Date Collected: 03/08/21 09:19
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-23

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 02:36	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 02:36	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 02:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 02:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 02:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 02:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 02:36	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 02:36	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 02:36	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 02:36	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 02:36	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 02:36	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 02:36	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 02:36	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 02:36	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 02:36	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 02:36	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 02:36	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 02:36	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 02:36	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 02:36	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 02:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 02:36	1
m-Xylene & p-Xylene	**0.16**	**J**	2.0	0.080	ug/L			03/16/21 02:36	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 02:36	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 02:36	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 02:36	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/16/21 02:36	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 02:36	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 02:36	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 02:36	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 02:36	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 02:36	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 02:36	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 02:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 02:36	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 02:36	1
Toluene	**0.23**	**J**	1.0	0.14	ug/L			03/16/21 02:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 02:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 02:36	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 02:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 02:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 02:36	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 02:36	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 02:36	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 02:36	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 02:36	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 02:36	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/16/21 02:36	1

Client Sample ID: MSA-SW43C-030821

Lab Sample ID: 240-145599-23

Date Collected: 03/08/21 09:19
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 02:36	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/16/21 02:36	1
Xylenes, Total	**0.16**	**J**	2.0	0.15	ug/L			03/16/21 02:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 02:36*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 02:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*		*03/16/21 02:36*	*1*
Dibromofluoromethane (Surr)	*112*		*78 - 129*		*03/16/21 02:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*75 - 130*		*03/16/21 02:36*	*1*
Toluene-d8 (Surr)	*105*		*69 - 122*		*03/16/21 02:36*	*1*

Client Sample ID: MSA-SW43D-030821

Lab Sample ID: 240-145599-24

Date Collected: 03/08/21 09:23
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 03:06	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 03:06	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 03:06	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 03:06	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 03:06	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 03:06	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 03:06	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 03:06	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 03:06	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 03:06	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 03:06	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 03:06	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 03:06	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 03:06	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 03:06	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 03:06	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 03:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/16/21 03:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 03:06	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 03:06	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 03:06	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 03:06	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 03:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 03:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 03:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 03:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 03:06	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 03:06	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 03:06	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 03:06	1

Client Sample ID: MSA-SW43D-030821

Date Collected: 03/08/21 09:23
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-24

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 03:06	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 03:06	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 03:06	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 03:06	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 03:06	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 03:06	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 03:06	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 03:06	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 03:06	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 03:06	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 03:06	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 03:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 03:06	1
m-Xylene & p-Xylene	**0.17**	**J**	2.0	0.080	ug/L			03/16/21 03:06	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 03:06	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 03:06	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 03:06	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/16/21 03:06	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 03:06	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 03:06	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 03:06	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 03:06	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 03:06	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 03:06	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 03:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 03:06	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 03:06	1
Toluene	**0.24**	**J**	1.0	0.14	ug/L			03/16/21 03:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 03:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 03:06	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 03:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 03:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 03:06	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 03:06	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 03:06	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 03:06	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 03:06	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 03:06	1
1,2,4-Trimethylbenzene	**0.11**	**J**	1.0	0.070	ug/L			03/16/21 03:06	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 03:06	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/16/21 03:06	1
Xylenes, Total	**0.17**	**J**	2.0	0.15	ug/L			03/16/21 03:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 03:06*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 03:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*		*03/16/21 03:06*	*1*
Dibromofluoromethane (Surr)	*113*		*78 - 129*		*03/16/21 03:06*	*1*

Client Sample ID: MSA-SW43D-030821

Lab Sample ID: 240-145599-24

Date Collected: 03/08/21 09:23
Matrix: Water
Date Received: 03/09/21 10:15

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*75 - 130*		*03/16/21 03:06*	*1*
Toluene-d8 (Surr)	*103*		*69 - 122*		*03/16/21 03:06*	*1*

Client Sample ID: MSA-SW44A-030821

Lab Sample ID: 240-145599-25

Date Collected: 03/08/21 08:58
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 03:36	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 03:36	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 03:36	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 03:36	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 03:36	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 03:36	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 03:36	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 03:36	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 03:36	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 03:36	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 03:36	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 03:36	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 03:36	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 03:36	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 03:36	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 03:36	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 03:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/16/21 03:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 03:36	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 03:36	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 03:36	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 03:36	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 03:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 03:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 03:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 03:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 03:36	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 03:36	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 03:36	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 03:36	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 03:36	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 03:36	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 03:36	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 03:36	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 03:36	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 03:36	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 03:36	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 03:36	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 03:36	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 03:36	1

Client Sample ID: MSA-SW44A-030821

Lab Sample ID: 240-145599-25

Date Collected: 03/08/21 08:58
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 03:36	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 03:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 03:36	1
m-Xylene & p-Xylene	**0.17**	**J**	2.0	0.080	ug/L			03/16/21 03:36	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 03:36	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 03:36	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 03:36	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/16/21 03:36	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 03:36	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 03:36	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 03:36	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 03:36	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 03:36	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 03:36	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 03:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 03:36	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 03:36	1
Toluene	**0.21**	**J**	1.0	0.14	ug/L			03/16/21 03:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 03:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 03:36	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 03:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 03:36	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 03:36	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 03:36	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 03:36	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 03:36	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 03:36	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 03:36	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/16/21 03:36	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 03:36	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/16/21 03:36	1
Xylenes, Total	**0.17**	**J**	2.0	0.15	ug/L			03/16/21 03:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 03:36*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 03:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*		*03/16/21 03:36*	*1*
Dibromofluoromethane (Surr)	*113*		*78 - 129*		*03/16/21 03:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 130*		*03/16/21 03:36*	*1*
Toluene-d8 (Surr)	*103*		*69 - 122*		*03/16/21 03:36*	*1*

Client Sample ID: MSA-SW44B-030821

Lab Sample ID: 240-145599-26

Date Collected: 03/08/21 09:03
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 04:06	1

Client Sample ID: MSA-SW44B-030821

Date Collected: 03/08/21 09:03
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-26

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 04:06	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 04:06	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 04:06	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 04:06	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 04:06	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 04:06	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 04:06	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 04:06	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 04:06	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 04:06	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 04:06	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 04:06	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 04:06	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 04:06	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 04:06	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 04:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/16/21 04:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 04:06	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 04:06	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 04:06	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 04:06	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 04:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 04:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 04:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 04:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 04:06	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 04:06	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 04:06	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 04:06	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 04:06	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 04:06	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 04:06	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 04:06	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 04:06	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 04:06	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 04:06	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 04:06	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 04:06	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 04:06	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 04:06	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 04:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 04:06	1
m-Xylene & p-Xylene	**0.20**	**J**	2.0	0.080	ug/L			03/16/21 04:06	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 04:06	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 04:06	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 04:06	1
o-Xylene	**0.10**	**J**	1.0	0.090	ug/L			03/16/21 04:06	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 04:06	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 04:06	1

Client Sample ID: MSA-SW44B-030821

Lab Sample ID: 240-145599-26

Date Collected: 03/08/21 09:03
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 04:06	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 04:06	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 04:06	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 04:06	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 04:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 04:06	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 04:06	1
Toluene	**0.26**	**J**	1.0	0.14	ug/L			03/16/21 04:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 04:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 04:06	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 04:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 04:06	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 04:06	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 04:06	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 04:06	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 04:06	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 04:06	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 04:06	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/16/21 04:06	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 04:06	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/16/21 04:06	1
Xylenes, Total	**0.30**	**J**	2.0	0.15	ug/L			03/16/21 04:06	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 04:06*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 04:06*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*		*03/16/21 04:06*	*1*
Dibromofluoromethane (Surr)	*117*		*78 - 129*		*03/16/21 04:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*127*		*75 - 130*		*03/16/21 04:06*	*1*
Toluene-d8 (Surr)	*107*		*69 - 122*		*03/16/21 04:06*	*1*

Client Sample ID: MSA-SW44C-030821

Lab Sample ID: 240-145599-27

Date Collected: 03/08/21 09:06
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 04:37	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 04:37	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 04:37	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 04:37	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 04:37	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 04:37	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 04:37	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 04:37	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 04:37	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 04:37	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 04:37	1

Client Sample ID: MSA-SW44C-030821

Date Collected: 03/08/21 09:06
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-27

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 04:37	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 04:37	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 04:37	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 04:37	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 04:37	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 04:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/16/21 04:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 04:37	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 04:37	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 04:37	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 04:37	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 04:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 04:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 04:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 04:37	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 04:37	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 04:37	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 04:37	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 04:37	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 04:37	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 04:37	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 04:37	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 04:37	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 04:37	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 04:37	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 04:37	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 04:37	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 04:37	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 04:37	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 04:37	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 04:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 04:37	1
m-Xylene & p-Xylene	**0.23**	**J**	2.0	0.080	ug/L			03/16/21 04:37	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 04:37	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 04:37	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 04:37	1
o-Xylene	**0.11**	**J**	1.0	0.090	ug/L			03/16/21 04:37	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 04:37	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 04:37	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 04:37	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 04:37	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 04:37	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 04:37	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 04:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 04:37	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 04:37	1
Toluene	**0.30**	**J**	1.0	0.14	ug/L			03/16/21 04:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 04:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 04:37	1

Client Sample ID: MSA-SW44C-030821

Lab Sample ID: 240-145599-27

Date Collected: 03/08/21 09:06
Date Received: 03/09/21 10:15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 04:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 04:37	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 04:37	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 04:37	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 04:37	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 04:37	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 04:37	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 04:37	1
1,2,4-Trimethylbenzene	**0.12**	**J**	1.0	0.070	ug/L			03/16/21 04:37	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 04:37	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/16/21 04:37	1
Xylenes, Total	**0.34**	**J**	2.0	0.15	ug/L			03/16/21 04:37	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 04:37*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 04:37*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*03/16/21 04:37*	*1*
Dibromofluoromethane (Surr)	*117*		*78 - 129*		*03/16/21 04:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*75 - 130*		*03/16/21 04:37*	*1*
Toluene-d8 (Surr)	*106*		*69 - 122*		*03/16/21 04:37*	*1*

Client Sample ID: MSA-SW44D-030821

Lab Sample ID: 240-145599-28

Date Collected: 03/08/21 09:09
Date Received: 03/09/21 10:15

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 05:17	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 05:17	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 05:17	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 05:17	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 05:17	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 05:17	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 05:17	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 05:17	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 05:17	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 05:17	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 05:17	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 05:17	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 05:17	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 05:17	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 05:17	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 05:17	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 05:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/16/21 05:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 05:17	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 05:17	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 05:17	1

Client Sample ID: MSA-SW44D-030821

Date Collected: 03/08/21 09:09
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-28

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 05:17	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 05:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 05:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 05:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 05:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 05:17	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 05:17	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 05:17	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 05:17	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 05:17	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 05:17	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 05:17	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 05:17	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 05:17	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 05:17	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 05:17	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 05:17	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 05:17	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 05:17	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 05:17	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 05:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 05:17	1
m-Xylene & p-Xylene	**0.20**	**J**	2.0	0.080	ug/L			03/16/21 05:17	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 05:17	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 05:17	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 05:17	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/16/21 05:17	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 05:17	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 05:17	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 05:17	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 05:17	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 05:17	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 05:17	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 05:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 05:17	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 05:17	1
Toluene	**0.25**	**J**	1.0	0.14	ug/L			03/16/21 05:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 05:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 05:17	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 05:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 05:17	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 05:17	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 05:17	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 05:17	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 05:17	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 05:17	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 05:17	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/16/21 05:17	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 05:17	1

Client Sample ID: MSA-SW44D-030821

Lab Sample ID: 240-145599-28

Date Collected: 03/08/21 09:09
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/16/21 05:17	1
Xylenes, Total	**0.20**	**J**	2.0	0.15	ug/L			03/16/21 05:17	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 05:17*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 05:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*47 - 134*		*03/16/21 05:17*	*1*
Dibromofluoromethane (Surr)	*113*		*78 - 129*		*03/16/21 05:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 130*		*03/16/21 05:17*	*1*
Toluene-d8 (Surr)	*104*		*69 - 122*		*03/16/21 05:17*	*1*

Client Sample ID: TB-030821

Lab Sample ID: 240-145599-29

Date Collected: 03/08/21 00:00
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 05:48	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 05:48	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 05:48	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 05:48	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 05:48	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 05:48	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 05:48	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 05:48	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 05:48	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 05:48	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 05:48	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 05:48	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 05:48	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 05:48	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 05:48	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 05:48	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 05:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/16/21 05:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 05:48	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 05:48	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 05:48	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 05:48	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 05:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 05:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 05:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 05:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 05:48	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 05:48	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 05:48	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 05:48	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 05:48	1

Client Sample ID: TB-030821

Date Collected: 03/08/21 00:00
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-29

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 05:48	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 05:48	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 05:48	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 05:48	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 05:48	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 05:48	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 05:48	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 05:48	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 05:48	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 05:48	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 05:48	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 05:48	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/16/21 05:48	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 05:48	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 05:48	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 05:48	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/16/21 05:48	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 05:48	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 05:48	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 05:48	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 05:48	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 05:48	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 05:48	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 05:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 05:48	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 05:48	1
Toluene	1.0	U	1.0	0.14	ug/L			03/16/21 05:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 05:48	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 05:48	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 05:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 05:48	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 05:48	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 05:48	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 05:48	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 05:48	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 05:48	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 05:48	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/16/21 05:48	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 05:48	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/16/21 05:48	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/16/21 05:48	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 05:48*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 05:48*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*47 - 134*		*03/16/21 05:48*	*1*
Dibromofluoromethane (Surr)	*115*		*78 - 129*		*03/16/21 05:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*75 - 130*		*03/16/21 05:48*	*1*

Client Sample ID: TB-030821

Lab Sample ID: 240-145599-29

Date Collected: 03/08/21 00:00
Matrix: Water
Date Received: 03/09/21 10:15

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*69 - 122*		*03/16/21 05:48*	*1*

Client Sample ID: MSA-SW46A-030821

Lab Sample ID: 240-145599-30

Date Collected: 03/08/21 10:31
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 15:10	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 15:10	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 15:10	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 15:10	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 15:10	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 15:10	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 15:10	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 15:10	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 15:10	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 15:10	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 15:10	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 15:10	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 15:10	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 15:10	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 15:10	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 15:10	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 15:10	1
cis-1,2-Dichloroethene	**2.1**		1.0	0.16	ug/L			03/16/21 15:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 15:10	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 15:10	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 15:10	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 15:10	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 15:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 15:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 15:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 15:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 15:10	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 15:10	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 15:10	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 15:10	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 15:10	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 15:10	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 15:10	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 15:10	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 15:10	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 15:10	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 15:10	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 15:10	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 15:10	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 15:10	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 15:10	1

Client Sample ID: MSA-SW46A-030821

Date Collected: 03/08/21 10:31
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 15:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 15:10	1
m-Xylene & p-Xylene	**0.23**	**J**	2.0	0.080	ug/L			03/16/21 15:10	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 15:10	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 15:10	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 15:10	1
o-Xylene	**0.12**	**J**	1.0	0.090	ug/L			03/16/21 15:10	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 15:10	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 15:10	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 15:10	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 15:10	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 15:10	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 15:10	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 15:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 15:10	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 15:10	1
Toluene	**0.30**	**J**	1.0	0.14	ug/L			03/16/21 15:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 15:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 15:10	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 15:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 15:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 15:10	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 15:10	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 15:10	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 15:10	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 15:10	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 15:10	1
1,2,4-Trimethylbenzene	**0.10**	**J**	1.0	0.070	ug/L			03/16/21 15:10	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 15:10	1
Vinyl chloride	**2.9**		1.0	0.20	ug/L			03/17/21 13:08	1
Xylenes, Total	**0.35**	**J**	2.0	0.15	ug/L			03/16/21 15:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 15:10*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 15:10*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/17/21 13:08*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*47 - 134*		*03/16/21 15:10*	*1*
4-Bromofluorobenzene (Surr)	*118*		*47 - 134*		*03/17/21 13:08*	*1*
Dibromofluoromethane (Surr)	*103*		*78 - 129*		*03/16/21 15:10*	*1*
Dibromofluoromethane (Surr)	*93*		*78 - 129*		*03/17/21 13:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 130*		*03/16/21 15:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 130*		*03/17/21 13:08*	*1*
Toluene-d8 (Surr)	*93*		*69 - 122*		*03/16/21 15:10*	*1*
Toluene-d8 (Surr)	*99*		*69 - 122*		*03/17/21 13:08*	*1*

Client Sample ID: MSA-SW47A-030821

Date Collected: 03/08/21 10:06
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-31

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 15:35	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 15:35	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 15:35	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 15:35	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 15:35	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 15:35	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 15:35	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 15:35	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 15:35	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 15:35	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 15:35	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 15:35	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 15:35	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 15:35	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 15:35	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 15:35	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 15:35	1
cis-1,2-Dichloroethene	**0.33**	**J**	1.0	0.16	ug/L			03/16/21 15:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 15:35	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 15:35	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 15:35	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 15:35	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 15:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 15:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 15:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 15:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 15:35	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 15:35	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 15:35	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 15:35	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 15:35	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 15:35	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 15:35	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 15:35	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 15:35	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 15:35	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 15:35	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 15:35	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 15:35	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 15:35	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 15:35	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 15:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 15:35	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/16/21 15:35	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 15:35	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 15:35	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 15:35	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/16/21 15:35	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 15:35	1

Client Sample ID: MSA-SW47A-030821

Lab Sample ID: 240-145599-31

Date Collected: 03/08/21 10:06
Date Received: 03/09/21 10:15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 15:35	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 15:35	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 15:35	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 15:35	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 15:35	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 15:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 15:35	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 15:35	1
Toluene	**0.17**	**J**	1.0	0.14	ug/L			03/16/21 15:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 15:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 15:35	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 15:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 15:35	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 15:35	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 15:35	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 15:35	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 15:35	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 15:35	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 15:35	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/16/21 15:35	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 15:35	1
Vinyl chloride	**0.83**	**J**	1.0	0.20	ug/L			03/16/21 15:35	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/16/21 15:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 15:35*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 15:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*47 - 134*		*03/16/21 15:35*	*1*
Dibromofluoromethane (Surr)	*106*		*78 - 129*		*03/16/21 15:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 130*		*03/16/21 15:35*	*1*
Toluene-d8 (Surr)	*91*		*69 - 122*		*03/16/21 15:35*	*1*

Client Sample ID: MSA-SW48A-030821

Lab Sample ID: 240-145599-32

Date Collected: 03/08/21 09:45
Date Received: 03/09/21 10:15

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 15:59	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 15:59	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 15:59	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 15:59	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 15:59	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 15:59	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 15:59	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 15:59	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 15:59	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 15:59	1

Client Sample ID: MSA-SW48A-030821

Date Collected: 03/08/21 09:45
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-32

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 15:59	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 15:59	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 15:59	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 15:59	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 15:59	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 15:59	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 15:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/16/21 15:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 15:59	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 15:59	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 15:59	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 15:59	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 15:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 15:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 15:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 15:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 15:59	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 15:59	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 15:59	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 15:59	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 15:59	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 15:59	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 15:59	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 15:59	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 15:59	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 15:59	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 15:59	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 15:59	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 15:59	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 15:59	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 15:59	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 15:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 15:59	1
m-Xylene & p-Xylene	**0.30**	**J**	2.0	0.080	ug/L			03/16/21 15:59	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 15:59	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 15:59	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 15:59	1
o-Xylene	**0.12**	**J**	1.0	0.090	ug/L			03/16/21 15:59	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 15:59	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 15:59	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 15:59	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 15:59	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 15:59	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 15:59	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 15:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 15:59	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 15:59	1
Toluene	**0.34**	**J**	1.0	0.14	ug/L			03/16/21 15:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 15:59	1

Client Sample ID: MSA-SW48A-030821

Lab Sample ID: 240-145599-32

Date Collected: 03/08/21 09:45
Matrix: Water
Date Received: 03/09/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 15:59	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 15:59	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 15:59	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 15:59	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 15:59	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 15:59	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 15:59	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 15:59	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 15:59	1
1,2,4-Trimethylbenzene	**0.12**	**J**	1.0	0.070	ug/L			03/16/21 15:59	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 15:59	1
Vinyl chloride	**0.21**	**J**	1.0	0.20	ug/L			03/16/21 15:59	1
Xylenes, Total	**0.42**	**J**	2.0	0.15	ug/L			03/16/21 15:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 15:59*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 15:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*47 - 134*		*03/16/21 15:59*	*1*
Dibromofluoromethane (Surr)	*100*		*78 - 129*		*03/16/21 15:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 130*		*03/16/21 15:59*	*1*
Toluene-d8 (Surr)	*91*		*69 - 122*		*03/16/21 15:59*	*1*

Client Sample ID: MSA-SW49A-030821

Lab Sample ID: 240-145599-33

Date Collected: 03/08/21 09:28
Matrix: Water
Date Received: 03/09/21 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 16:24	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 16:24	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 16:24	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 16:24	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 16:24	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 16:24	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 16:24	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 16:24	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 16:24	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 16:24	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 16:24	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 16:24	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 16:24	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 16:24	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 16:24	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 16:24	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 16:24	1
cis-1,2-Dichloroethene	**2.2**		1.0	0.16	ug/L			03/16/21 16:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 16:24	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 16:24	1

Client Sample ID: MSA-SW49A-030821

Date Collected: 03/08/21 09:28
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-33

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 16:24	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 16:24	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 16:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 16:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 16:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 16:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 16:24	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 16:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 16:24	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 16:24	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 16:24	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 16:24	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 16:24	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 16:24	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 16:24	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 16:24	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 16:24	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 16:24	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 16:24	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 16:24	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 16:24	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 16:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 16:24	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/16/21 16:24	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 16:24	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 16:24	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 16:24	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/16/21 16:24	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 16:24	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 16:24	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 16:24	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 16:24	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 16:24	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 16:24	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 16:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 16:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 16:24	1
Toluene	**0.25**	**J**	1.0	0.14	ug/L			03/16/21 16:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 16:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 16:24	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 16:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 16:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 16:24	1
Trichloroethene	**0.71**	**J**	1.0	0.10	ug/L			03/16/21 16:24	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 16:24	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 16:24	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 16:24	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 16:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/16/21 16:24	1

Client Sample ID: MSA-SW49A-030821

Date Collected: 03/08/21 09:28
Date Received: 03/09/21 10:15

Lab Sample ID: 240-145599-33

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 16:24	1
Vinyl chloride	**0.83**	**J**	1.0	0.20	ug/L			03/16/21 16:24	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/16/21 16:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/16/21 16:24*	*1*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 16:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*03/16/21 16:24*	*1*
Dibromofluoromethane (Surr)	*106*		*78 - 129*		*03/16/21 16:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 130*		*03/16/21 16:24*	*1*
Toluene-d8 (Surr)	*92*		*69 - 122*		*03/16/21 16:24*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	1.0	0.14	ug/L
1,1,1-Trichloroethane	1.0	0.24	ug/L
1,1,2,2-Tetrachloroethane	1.0	0.13	ug/L
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	0.41	ug/L
1,1-Dichloroethane	1.0	0.17	ug/L
1,1-Dichloroethene	1.0	0.19	ug/L
1,1-Dichloropropene	1.0	0.14	ug/L
1,2,3-Trichlorobenzene	1.0	0.54	ug/L
1,2,3-Trichloropropane	1.0	0.24	ug/L
1,2,3-Trimethylbenzene	5.0	0.14	ug/L
1,2,4-Trichlorobenzene	1.0	0.26	ug/L
1,2,4-Trimethylbenzene	1.0	0.070	ug/L
1,2-Dibromo-3-Chloropropane	2.0	0.91	ug/L
1,2-Dibromoethane	1.0	0.12	ug/L
1,2-Dichlorobenzene	1.0	0.15	ug/L
1,2-Dichloroethane	1.0	0.21	ug/L
1,2-Dichloropropane	1.0	0.15	ug/L
1,3-Dichlorobenzene	1.0	0.15	ug/L
1,3-Dichloropropane	1.0	0.21	ug/L
1,4-Dichlorobenzene	1.0	0.16	ug/L
2,2-Dichloropropane	1.0	0.31	ug/L
2-Butanone	10	1.2	ug/L
2-Chloroethyl vinyl ether	10	0.26	ug/L
2-Chlorotoluene	1.0	0.15	ug/L
2-Hexanone	10	0.54	ug/L
4-Chlorotoluene	1.0	0.090	ug/L
4-Methyl-2-pentanone	10	0.42	ug/L
Acetone	10	5.4	ug/L
Benzene	1.0	0.13	ug/L
Bromobenzene	1.0	0.12	ug/L
Bromochloromethane	1.0	0.14	ug/L
Bromodichloromethane	1.0	0.17	ug/L
Bromoform	1.0	0.76	ug/L
Bromomethane	1.0	0.42	ug/L
Carbon disulfide	1.0	0.28	ug/L
Carbon tetrachloride	1.0	0.26	ug/L
Chlorobenzene	1.0	0.14	ug/L
Chloroethane	1.0	0.83	ug/L
Chloroform	1.0	0.13	ug/L
Chloromethane	1.0	0.20	ug/L
cis-1,2-Dichloroethene	1.0	0.16	ug/L
cis-1,3-Dichloropropene	1.0	0.61	ug/L
Dibromochloromethane	1.0	0.39	ug/L
Dibromomethane	1.0	0.090	ug/L
Dichlorodifluoromethane	1.0	0.35	ug/L
Diisopropyl ether	10	0.17	ug/L
Ethylbenzene	1.0	0.11	ug/L
Ethyl-t-butyl ether (ETBE)	5.0	0.15	ug/L
Hexachlorobutadiene	1.0	0.83	ug/L
Isopropylbenzene	1.0	0.090	ug/L
Methyl tert-butyl ether	1.0	0.070	ug/L
Methylene Chloride	5.0	2.6	ug/L
m-Xylene & p-Xylene	2.0	0.080	ug/L

Default Detection Limits

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

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

Analyte	RL	MDL	Units
Naphthalene	1.0	0.32	ug/L
n-Butylbenzene	1.0	0.14	ug/L
n-Propylbenzene	1.0	0.15	ug/L
o-Xylene	1.0	0.090	ug/L
p-Isopropyltoluene	1.0	0.13	ug/L
sec-Butylbenzene	1.0	0.13	ug/L
Styrene	1.0	0.10	ug/L
Tert-amyl-methyl ether (TAME)	5.0	0.11	ug/L
tert-Butyl alcohol	40	1.7	ug/L
tert-Butylbenzene	1.0	0.14	ug/L
Tetrachloroethene	1.0	0.15	ug/L
Toluene	1.0	0.14	ug/L
trans-1,2-Dichloroethene	1.0	0.19	ug/L
trans-1,3-Dichloropropene	1.0	0.67	ug/L
Trichloroethene	1.0	0.10	ug/L
Trichlorofluoromethane	1.0	0.45	ug/L
Vinyl acetate	2.0	0.19	ug/L
Vinyl chloride	1.0	0.20	ug/L
Xylenes, Total	2.0	0.15	ug/L

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(47-134)	(78-129)	(75-130)	(69-122)
240-145599-1	MSA-SW37A-030821	101	102	98	88
240-145599-2	MSA-SW37B-030821	102	107	99	88
240-145599-3	MSA-SW37C-030821	100	107	99	88
240-145599-4	MSA-SW37D-030821	104	105	101	88
240-145599-5	MSA-SW38A-030821	103	105	99	88
240-145599-6	MSA-SW38B-030821	101	103	97	89
240-145599-7	MSA-SW38C-030821	101	106	99	87
240-145599-8	MSA-SW38D-030821	103	102	101	89
240-145599-9	MSA-SW40A-030821	102	104	100	88
240-145599-10	MSA-SW40B-030821	102	105	100	87
240-145599-11	MSA-SW40C-030821	99	107	101	89
240-145599-12	MSA-SW40D-030821	104	108	103	89
240-145599-13	MSA-SW41A-030821	102	100	99	87
240-145599-14	MSA-SW41B-030821	102	101	97	87
240-145599-15	MSA-SW41C-030821	101	105	100	89
240-145599-16	MSA-SW41D-030821	100	105	101	88
240-145599-17	MSA-SW42A-030821	107	100	103	94
240-145599-17	MSA-SW42A-030821	118	92	91	99
240-145599-18	MSA-SW42B-030821	108	99	102	94
240-145599-18	MSA-SW42B-030821	120	93	94	101
240-145599-19	MSA-SW42C-030821	108	105	101	91
240-145599-19	MSA-SW42C-030821	120	93	92	101
240-145599-20	MSA-SW42D-030821	100	110	124	105
240-145599-21	MSA-SW43A-030821	99	112	123	105
240-145599-22	MSA-SW43B-030821	99	114	123	106
240-145599-23	MSA-SW43C-030821	101	112	125	105
240-145599-24	MSA-SW43D-030821	99	113	126	103
240-145599-25	MSA-SW44A-030821	99	113	123	103
240-145599-26	MSA-SW44B-030821	101	117	127	107
240-145599-27	MSA-SW44C-030821	102	117	128	106
240-145599-28	MSA-SW44D-030821	99	113	123	104
240-145599-29	TB-030821	102	115	128	107
240-145599-30	MSA-SW46A-030821	110	103	101	93
240-145599-30	MSA-SW46A-030821	118	93	92	99
240-145599-31	MSA-SW47A-030821	104	106	104	91
240-145599-32	MSA-SW48A-030821	106	100	104	91
240-145599-33	MSA-SW49A-030821	108	106	103	92
240-145830-A-2 MS	Matrix Spike	118	92	91	99
240-145830-A-2 MSD	Matrix Spike Duplicate	120	90	91	101
LCS 240-476369/5	Lab Control Sample	103	91	89	89
LCS 240-476858/5	Lab Control Sample	108	111	114	107
LCS 240-476975/5	Lab Control Sample	111	91	94	97
LCS 240-477127/10	Lab Control Sample	119	91	89	99
LCSD 240-476369/10	Lab Control Sample Dup	100	89	87	89
LCSD 240-476975/10	Lab Control Sample Dup	111	90	92	97
MB 240-476369/8	Method Blank	101	103	99	89
MB 240-476858/8	Method Blank	103	111	119	103
MB 240-476975/8	Method Blank	108	102	103	93
MB 240-477127/8	Method Blank	119	93	91	99

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-476369/8
Matrix: Water
Analysis Batch: 476369

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/11/21 11:11	1
Benzene	1.0	U	1.0	0.13	ug/L			03/11/21 11:11	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/11/21 11:11	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/11/21 11:11	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/11/21 11:11	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/11/21 11:11	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/11/21 11:11	1
2-Butanone	10	U	10	1.2	ug/L			03/11/21 11:11	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/11/21 11:11	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/11/21 11:11	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/11/21 11:11	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/11/21 11:11	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/11/21 11:11	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/11/21 11:11	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/11/21 11:11	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/11/21 11:11	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/11/21 11:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/11/21 11:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/11/21 11:11	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/11/21 11:11	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/11/21 11:11	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/11/21 11:11	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/11/21 11:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 11:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/11/21 11:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/11/21 11:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/11/21 11:11	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/11/21 11:11	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/11/21 11:11	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 11:11	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/11/21 11:11	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/11/21 11:11	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/11/21 11:11	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/11/21 11:11	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/11/21 11:11	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/11/21 11:11	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/11/21 11:11	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/11/21 11:11	1
2-Hexanone	10	U	10	0.54	ug/L			03/11/21 11:11	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/11/21 11:11	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/11/21 11:11	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/11/21 11:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/11/21 11:11	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/11/21 11:11	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/11/21 11:11	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 11:11	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/11/21 11:11	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/11/21 11:11	1

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

Lab Sample ID: MB 240-476369/8
Matrix: Water
Analysis Batch: 476369

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/11/21 11:11	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/11/21 11:11	1
Styrene	1.0	U	1.0	0.10	ug/L			03/11/21 11:11	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/11/21 11:11	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/11/21 11:11	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/11/21 11:11	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/11/21 11:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/11/21 11:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/11/21 11:11	1
Toluene	1.0	U	1.0	0.14	ug/L			03/11/21 11:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/11/21 11:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/11/21 11:11	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/11/21 11:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/11/21 11:11	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/11/21 11:11	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/11/21 11:11	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/11/21 11:11	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/11/21 11:11	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/11/21 11:11	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/11/21 11:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/11/21 11:11	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/11/21 11:11	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/11/21 11:11	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/11/21 11:11	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/11/21 11:11*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*47 - 134*		*03/11/21 11:11*	*1*
Dibromofluoromethane (Surr)	*103*		*78 - 129*		*03/11/21 11:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 130*		*03/11/21 11:11*	*1*
Toluene-d8 (Surr)	*89*		*69 - 122*		*03/11/21 11:11*	*1*

Lab Sample ID: LCS 240-476369/5
Matrix: Water
Analysis Batch: 476369

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	35.8		ug/L		90	33 - 155
Benzene	20.0	21.0		ug/L		105	77 - 123
Bromobenzene	20.0	21.6		ug/L		108	77 - 120
Bromochloromethane	20.0	21.6		ug/L		108	70 - 128
Bromodichloromethane	20.0	21.9		ug/L		110	73 - 122
Bromoform	20.0	17.7		ug/L		88	47 - 133
Bromomethane	20.0	18.2		ug/L		91	48 - 144
2-Butanone	40.0	31.5		ug/L		79	41 - 151
Carbon disulfide	20.0	19.3		ug/L		97	67 - 127

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

Lab Sample ID: LCS 240-476369/5
Matrix: Water
Analysis Batch: 476369

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	20.0	21.9		ug/L		110	61 - 142
Chlorobenzene	20.0	21.5		ug/L		108	80 - 120
Chloroethane	20.0	21.6		ug/L		108	41 - 147
2-Chloroethyl vinyl ether	20.0	16.1		ug/L		81	29 - 146
Chloroform	20.0	21.9		ug/L		109	74 - 127
Chloromethane	20.0	23.5		ug/L		117	46 - 148
2-Chlorotoluene	20.0	21.8		ug/L		109	73 - 126
4-Chlorotoluene	20.0	21.9		ug/L		109	73 - 126
cis-1,2-Dichloroethene	20.0	22.2		ug/L		111	75 - 124
cis-1,3-Dichloropropene	20.0	20.1		ug/L		100	68 - 128
Dibromochloromethane	20.0	20.8		ug/L		104	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	17.6		ug/L		88	34 - 136
1,2-Dibromoethane	20.0	19.7		ug/L		98	73 - 120
Dibromomethane	20.0	20.7		ug/L		103	67 - 121
1,2-Dichlorobenzene	20.0	20.2		ug/L		101	74 - 120
1,3-Dichlorobenzene	20.0	21.0		ug/L		105	74 - 120
1,4-Dichlorobenzene	20.0	21.2		ug/L		106	75 - 120
Dichlorodifluoromethane	20.0	24.6		ug/L		123	35 - 137
1,1-Dichloroethane	20.0	21.9		ug/L		109	74 - 126
1,2-Dichloroethane	20.0	21.4		ug/L		107	66 - 129
1,1-Dichloroethene	20.0	21.7		ug/L		109	73 - 129
1,2-Dichloropropane	20.0	21.7		ug/L		108	79 - 127
1,3-Dichloropropane	20.0	20.2		ug/L		101	74 - 122
2,2-Dichloropropane	20.0	22.2		ug/L		111	67 - 137
1,1-Dichloropropene	20.0	21.4		ug/L		107	78 - 120
Ethylbenzene	20.0	22.0		ug/L		110	80 - 120
Hexachlorobutadiene	20.0	20.1		ug/L		100	40 - 120
2-Hexanone	40.0	35.7		ug/L		89	43 - 142
Isopropylbenzene	20.0	23.0		ug/L		115	73 - 123
Methylene Chloride	20.0	20.5		ug/L		102	63 - 134
4-Methyl-2-pentanone	40.0	34.1		ug/L		85	43 - 145
Methyl tert-butyl ether	20.0	18.8		ug/L		94	57 - 127
m-Xylene & p-Xylene	20.0	22.1		ug/L		110	79 - 121
Naphthalene	20.0	19.7		ug/L		98	28 - 130
n-Butylbenzene	20.0	21.5		ug/L		108	54 - 129
n-Propylbenzene	20.0	22.3		ug/L		111	67 - 130
o-Xylene	20.0	22.0		ug/L		110	75 - 123
p-Isopropyltoluene	20.0	22.4		ug/L		112	66 - 127
sec-Butylbenzene	20.0	22.6		ug/L		113	60 - 131
Styrene	20.0	19.7		ug/L		99	75 - 121
tert-Butyl alcohol	200	167		ug/L		83	15 - 169
tert-Butylbenzene	20.0	22.4		ug/L		112	63 - 126
1,1,1,2-Tetrachloroethane	20.0	20.1		ug/L		101	77 - 120
1,1,2,2-Tetrachloroethane	20.0	17.9		ug/L		89	45 - 151
Tetrachloroethene	20.0	21.8		ug/L		109	70 - 125
Toluene	20.0	21.6		ug/L		108	79 - 122
trans-1,2-Dichloroethene	20.0	21.5		ug/L		108	74 - 130
trans-1,3-Dichloropropene	20.0	18.2		ug/L		91	64 - 120
1,2,3-Trichlorobenzene	20.0	19.9		ug/L		100	42 - 126

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

Lab Sample ID: LCS 240-476369/5
Matrix: Water
Analysis Batch: 476369

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,4-Trichlorobenzene			20.0	19.7		ug/L		99	47 - 120		
1,1,1-Trichloroethane			20.0	22.1		ug/L		111	65 - 141		
Trichloroethene			20.0	20.7		ug/L		104	71 - 121		
Trichlorofluoromethane			20.0	24.6		ug/L		123	52 - 148		
1,2,3-Trichloropropane			20.0	18.4		ug/L		92	57 - 137		
1,1,2-Trichloro-1,2,2-trichfluoroethane			20.0	25.2		ug/L		126	54 - 148		
1,2,4-Trimethylbenzene			20.0	21.7		ug/L		109	66 - 129		
Vinyl acetate			20.0	16.9		ug/L		85	44 - 160		
Vinyl chloride			20.0	25.6		ug/L		128	61 - 134		
Xylenes, Total			40.0	44.1		ug/L		110	78 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*47 - 134*
Dibromofluoromethane (Surr)	*91*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 130*
Toluene-d8 (Surr)	*89*		*69 - 122*

Lab Sample ID: LCSD 240-476369/10
Matrix: Water
Analysis Batch: 476369

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
Acetone			40.0	34.5		ug/L		86	33 - 155	4	35
Benzene			20.0	19.4		ug/L		97	77 - 123	8	35
Bromobenzene			20.0	20.1		ug/L		100	77 - 120	7	35
Bromochloromethane			20.0	19.8		ug/L		99	70 - 128	9	35
Bromodichloromethane			20.0	19.6		ug/L		98	73 - 122	11	35
Bromoform			20.0	16.5		ug/L		83	47 - 133	7	35
Bromomethane			20.0	18.1		ug/L		91	48 - 144	1	35
2-Butanone			40.0	31.3		ug/L		78	41 - 151	1	35
Carbon disulfide			20.0	17.5		ug/L		87	67 - 127	10	35
Carbon tetrachloride			20.0	19.7		ug/L		99	61 - 142	11	35
Chlorobenzene			20.0	19.5		ug/L		98	80 - 120	10	35
Chloroethane			20.0	21.0		ug/L		105	41 - 147	3	35
2-Chloroethyl vinyl ether			20.0	14.7		ug/L		74	29 - 146	9	35
Chloroform			20.0	19.6		ug/L		98	74 - 127	11	35
Chloromethane			20.0	21.4		ug/L		107	46 - 148	9	35
2-Chlorotoluene			20.0	20.2		ug/L		101	73 - 126	8	35
4-Chlorotoluene			20.0	20.7		ug/L		104	73 - 126	5	35
cis-1,2-Dichloroethene			20.0	20.6		ug/L		103	75 - 124	8	35
cis-1,3-Dichloropropene			20.0	18.1		ug/L		90	68 - 128	10	35
Dibromochloromethane			20.0	18.9		ug/L		94	75 - 120	10	35
1,2-Dibromo-3-Chloropropane			20.0	16.9		ug/L		84	34 - 136	4	35
1,2-Dibromoethane			20.0	18.2		ug/L		91	73 - 120	8	35
Dibromomethane			20.0	19.1		ug/L		95	67 - 121	8	35
1,2-Dichlorobenzene			20.0	19.3		ug/L		96	74 - 120	5	35
1,3-Dichlorobenzene			20.0	19.6		ug/L		98	74 - 120	7	35
1,4-Dichlorobenzene			20.0	20.0		ug/L		100	75 - 120	6	35

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

Lab Sample ID: LCSD 240-476369/10
Matrix: Water
Analysis Batch: 476369

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
Dichlorodifluoromethane			20.0	23.2		ug/L		116	35 - 137	6	35
1,1-Dichloroethane			20.0	19.9		ug/L		100	74 - 126	9	35
1,2-Dichloroethane			20.0	19.0		ug/L		95	66 - 129	12	35
1,1-Dichloroethene			20.0	19.6		ug/L		98	73 - 129	10	35
1,2-Dichloropropane			20.0	20.0		ug/L		100	79 - 127	8	35
1,3-Dichloropropane			20.0	18.6		ug/L		93	74 - 122	8	35
2,2-Dichloropropane			20.0	20.4		ug/L		102	67 - 137	9	35
1,1-Dichloropropene			20.0	19.4		ug/L		97	78 - 120	10	35
Ethylbenzene			20.0	20.0		ug/L		100	80 - 120	9	35
Hexachlorobutadiene			20.0	19.6		ug/L		98	40 - 120	3	35
2-Hexanone			40.0	33.2		ug/L		83	43 - 142	7	35
Isopropylbenzene			20.0	20.8		ug/L		104	73 - 123	10	35
Methylene Chloride			20.0	18.6		ug/L		93	63 - 134	10	35
4-Methyl-2-pentanone			40.0	31.8		ug/L		79	43 - 145	7	35
Methyl tert-butyl ether			20.0	17.2		ug/L		86	57 - 127	9	35
m-Xylene & p-Xylene			20.0	20.1		ug/L		101	79 - 121	9	35
Naphthalene			20.0	19.1		ug/L		96	28 - 130	3	35
n-Butylbenzene			20.0	20.7		ug/L		103	54 - 129	4	35
n-Propylbenzene			20.0	21.0		ug/L		105	67 - 130	6	35
o-Xylene			20.0	20.1		ug/L		101	75 - 123	9	35
p-Isopropyltoluene			20.0	21.3		ug/L		107	66 - 127	5	35
sec-Butylbenzene			20.0	21.4		ug/L		107	60 - 131	5	35
Styrene			20.0	18.0		ug/L		90	75 - 121	9	35
tert-Butyl alcohol			200	157		ug/L		79	15 - 169	6	35
tert-Butylbenzene			20.0	20.9		ug/L		105	63 - 126	7	35
1,1,1,2-Tetrachloroethane			20.0	18.7		ug/L		94	77 - 120	7	35
1,1,2,2-Tetrachloroethane			20.0	17.6		ug/L		88	45 - 151	2	35
Tetrachloroethene			20.0	20.4		ug/L		102	70 - 125	6	35
Toluene			20.0	19.8		ug/L		99	79 - 122	9	35
trans-1,2-Dichloroethene			20.0	19.7		ug/L		99	74 - 130	9	35
trans-1,3-Dichloropropene			20.0	16.4		ug/L		82	64 - 120	10	35
1,2,3-Trichlorobenzene			20.0	19.5		ug/L		98	42 - 126	2	35
1,2,4-Trichlorobenzene			20.0	19.4		ug/L		97	47 - 120	1	35
1,1,1-Trichloroethane			20.0	20.0		ug/L		100	65 - 141	10	35
Trichloroethene			20.0	18.6		ug/L		93	71 - 121	11	35
Trichlorofluoromethane			20.0	23.9		ug/L		120	52 - 148	3	35
1,2,3-Trichloropropane			20.0	17.4		ug/L		87	57 - 137	5	35
1,1,2-Trichloro-1,2,2-trichfluoroethane			20.0	22.6		ug/L		113	54 - 148	11	35
1,2,4-Trimethylbenzene			20.0	20.4		ug/L		102	66 - 129	6	35
Vinyl acetate			20.0	15.5		ug/L		78	44 - 160	9	35
Vinyl chloride			20.0	23.3		ug/L		116	61 - 134	9	35
Xylenes, Total			40.0	40.2		ug/L		101	78 - 122	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*47 - 134*
Dibromofluoromethane (Surr)	*89*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 130*

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

Lab Sample ID: LCSD 240-476369/10
Matrix: Water
Analysis Batch: 476369

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*89*		*69 - 122*

Lab Sample ID: MB 240-476858/8
Matrix: Water
Analysis Batch: 476858

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/15/21 20:55	1
Benzene	1.0	U	1.0	0.13	ug/L			03/15/21 20:55	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/15/21 20:55	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/15/21 20:55	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/15/21 20:55	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/15/21 20:55	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/15/21 20:55	1
2-Butanone	10	U	10	1.2	ug/L			03/15/21 20:55	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/15/21 20:55	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/15/21 20:55	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/15/21 20:55	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/15/21 20:55	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/15/21 20:55	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/15/21 20:55	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/15/21 20:55	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/15/21 20:55	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/15/21 20:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/15/21 20:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/15/21 20:55	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/15/21 20:55	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/15/21 20:55	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/15/21 20:55	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/15/21 20:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/15/21 20:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/15/21 20:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/15/21 20:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/15/21 20:55	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/15/21 20:55	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/15/21 20:55	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/15/21 20:55	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/15/21 20:55	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/15/21 20:55	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/15/21 20:55	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/15/21 20:55	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/15/21 20:55	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/15/21 20:55	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/15/21 20:55	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/15/21 20:55	1
2-Hexanone	10	U	10	0.54	ug/L			03/15/21 20:55	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/15/21 20:55	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/15/21 20:55	1

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

Lab Sample ID: MB 240-476858/8
Matrix: Water
Analysis Batch: 476858

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/15/21 20:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/15/21 20:55	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/15/21 20:55	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/15/21 20:55	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/15/21 20:55	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/15/21 20:55	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/15/21 20:55	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/15/21 20:55	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/15/21 20:55	1
Styrene	1.0	U	1.0	0.10	ug/L			03/15/21 20:55	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/15/21 20:55	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/15/21 20:55	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/15/21 20:55	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/15/21 20:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/15/21 20:55	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/15/21 20:55	1
Toluene	1.0	U	1.0	0.14	ug/L			03/15/21 20:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/15/21 20:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/15/21 20:55	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/15/21 20:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/15/21 20:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/15/21 20:55	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/15/21 20:55	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/15/21 20:55	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/15/21 20:55	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/15/21 20:55	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/15/21 20:55	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/15/21 20:55	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/15/21 20:55	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/15/21 20:55	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/15/21 20:55	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/15/21 20:55*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*47 - 134*		*03/15/21 20:55*	*1*
Dibromofluoromethane (Surr)	*111*		*78 - 129*		*03/15/21 20:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*75 - 130*		*03/15/21 20:55*	*1*
Toluene-d8 (Surr)	*103*		*69 - 122*		*03/15/21 20:55*	*1*

Lab Sample ID: LCS 240-476858/5
Matrix: Water
Analysis Batch: 476858

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone			40.0	47.8		ug/L		120	33 - 155		
Benzene			20.0	22.4		ug/L		112	77 - 123		

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

Lab Sample ID: LCS 240-476858/5
Matrix: Water
Analysis Batch: 476858

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	20.0	18.3		ug/L		92	77 - 120
Bromochloromethane	20.0	23.4		ug/L		117	70 - 128
Bromodichloromethane	20.0	20.9		ug/L		104	73 - 122
Bromoform	20.0	16.2		ug/L		81	47 - 133
Bromomethane	20.0	20.6		ug/L		103	48 - 144
2-Butanone	40.0	40.9		ug/L		102	41 - 151
Carbon disulfide	20.0	16.7		ug/L		83	67 - 127
Carbon tetrachloride	20.0	18.1		ug/L		91	61 - 142
Chlorobenzene	20.0	19.6		ug/L		98	80 - 120
Chloroethane	20.0	24.4		ug/L		122	41 - 147
2-Chloroethyl vinyl ether	20.0	23.6		ug/L		118	29 - 146
Chloroform	20.0	22.4		ug/L		112	74 - 127
Chloromethane	20.0	24.0		ug/L		120	46 - 148
2-Chlorotoluene	20.0	21.2		ug/L		106	73 - 126
4-Chlorotoluene	20.0	20.5		ug/L		103	73 - 126
cis-1,2-Dichloroethene	20.0	20.7		ug/L		104	75 - 124
cis-1,3-Dichloropropene	20.0	21.3		ug/L		107	68 - 128
Dibromochloromethane	20.0	18.5		ug/L		93	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	18.0		ug/L		90	34 - 136
1,2-Dibromoethane	20.0	18.8		ug/L		94	73 - 120
Dibromomethane	20.0	16.0		ug/L		80	67 - 121
1,2-Dichlorobenzene	20.0	19.3		ug/L		97	74 - 120
1,3-Dichlorobenzene	20.0	18.7		ug/L		94	74 - 120
1,4-Dichlorobenzene	20.0	18.6		ug/L		93	75 - 120
Dichlorodifluoromethane	20.0	15.9		ug/L		80	35 - 137
1,1-Dichloroethane	20.0	23.3		ug/L		117	74 - 126
1,2-Dichloroethane	20.0	21.7		ug/L		108	66 - 129
1,1-Dichloroethene	20.0	20.6		ug/L		103	73 - 129
1,2-Dichloropropane	20.0	24.5		ug/L		122	79 - 127
1,3-Dichloropropane	20.0	22.4		ug/L		112	74 - 122
2,2-Dichloropropane	20.0	20.2		ug/L		101	67 - 137
1,1-Dichloropropene	20.0	22.0		ug/L		110	78 - 120
Ethylbenzene	20.0	20.1		ug/L		101	80 - 120
Hexachlorobutadiene	20.0	12.5		ug/L		63	40 - 120
2-Hexanone	40.0	47.8		ug/L		120	43 - 142
Isopropylbenzene	20.0	19.9		ug/L		100	73 - 123
Methylene Chloride	20.0	23.5		ug/L		118	63 - 134
4-Methyl-2-pentanone	40.0	48.2		ug/L		121	43 - 145
Methyl tert-butyl ether	20.0	19.6		ug/L		98	57 - 127
m-Xylene & p-Xylene	20.0	20.2		ug/L		101	79 - 121
Naphthalene	20.0	19.3		ug/L		97	28 - 130
n-Butylbenzene	20.0	21.1		ug/L		106	54 - 129
n-Propylbenzene	20.0	21.2		ug/L		106	67 - 130
o-Xylene	20.0	20.5		ug/L		103	75 - 123
p-Isopropyltoluene	20.0	20.0		ug/L		100	66 - 127
sec-Butylbenzene	20.0	20.4		ug/L		102	60 - 131
Styrene	20.0	18.3		ug/L		92	75 - 121
tert-Butyl alcohol	200	228		ug/L		114	15 - 169
tert-Butylbenzene	20.0	19.5		ug/L		98	63 - 126

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

Lab Sample ID: LCS 240-476858/5
Matrix: Water
Analysis Batch: 476858

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.2		ug/L		91	77 - 120
1,1,2,2-Tetrachloroethane	20.0	23.9		ug/L		119	45 - 151
Tetrachloroethene	20.0	16.2		ug/L		81	70 - 125
Toluene	20.0	20.9		ug/L		105	79 - 122
trans-1,2-Dichloroethene	20.0	22.6		ug/L		113	74 - 130
trans-1,3-Dichloropropene	20.0	18.3		ug/L		91	64 - 120
1,2,3-Trichlorobenzene	20.0	16.7		ug/L		84	42 - 126
1,2,4-Trichlorobenzene	20.0	15.9		ug/L		80	47 - 120
1,1,1-Trichloroethane	20.0	19.1		ug/L		95	65 - 141
Trichloroethene	20.0	18.7		ug/L		94	71 - 121
Trichlorofluoromethane	20.0	18.3		ug/L		91	52 - 148
1,2,3-Trichloropropane	20.0	20.8		ug/L		104	57 - 137
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	18.7		ug/L		94	54 - 148
1,2,4-Trimethylbenzene	20.0	21.6		ug/L		108	66 - 129
Vinyl acetate	20.0	21.0		ug/L		105	44 - 160
Vinyl chloride	20.0	24.3		ug/L		121	61 - 134
Xylenes, Total	40.0	40.7		ug/L		102	78 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*
Dibromofluoromethane (Surr)	*111*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*114*		*75 - 130*
Toluene-d8 (Surr)	*107*		*69 - 122*

Lab Sample ID: MB 240-476975/8
Matrix: Water
Analysis Batch: 476975

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/16/21 12:42	1
Benzene	1.0	U	1.0	0.13	ug/L			03/16/21 12:42	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/16/21 12:42	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/16/21 12:42	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/16/21 12:42	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/16/21 12:42	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/16/21 12:42	1
2-Butanone	10	U	10	1.2	ug/L			03/16/21 12:42	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/16/21 12:42	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/16/21 12:42	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/16/21 12:42	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/16/21 12:42	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/16/21 12:42	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/16/21 12:42	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/16/21 12:42	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/16/21 12:42	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/16/21 12:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/16/21 12:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/16/21 12:42	1

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

Lab Sample ID: MB 240-476975/8
Matrix: Water
Analysis Batch: 476975

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/16/21 12:42	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/16/21 12:42	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/16/21 12:42	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/16/21 12:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 12:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/16/21 12:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/16/21 12:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/16/21 12:42	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/16/21 12:42	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/16/21 12:42	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 12:42	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/16/21 12:42	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/16/21 12:42	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/16/21 12:42	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/16/21 12:42	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/16/21 12:42	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/16/21 12:42	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/16/21 12:42	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/16/21 12:42	1
2-Hexanone	10	U	10	0.54	ug/L			03/16/21 12:42	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/16/21 12:42	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/16/21 12:42	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/16/21 12:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/16/21 12:42	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/16/21 12:42	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/16/21 12:42	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 12:42	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/16/21 12:42	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/16/21 12:42	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/16/21 12:42	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/16/21 12:42	1
Styrene	1.0	U	1.0	0.10	ug/L			03/16/21 12:42	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/16/21 12:42	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/16/21 12:42	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/16/21 12:42	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/16/21 12:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/16/21 12:42	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/16/21 12:42	1
Toluene	1.0	U	1.0	0.14	ug/L			03/16/21 12:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/16/21 12:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/16/21 12:42	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/16/21 12:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/16/21 12:42	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/16/21 12:42	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/16/21 12:42	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/16/21 12:42	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/16/21 12:42	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/16/21 12:42	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/16/21 12:42	1

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

Lab Sample ID: MB 240-476975/8
Matrix: Water
Analysis Batch: 476975

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/16/21 12:42	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/16/21 12:42	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/16/21 12:42	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/16/21 12:42	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/16/21 12:42*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*03/16/21 12:42*	*1*
Dibromofluoromethane (Surr)	*102*		*78 - 129*		*03/16/21 12:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 130*		*03/16/21 12:42*	*1*
Toluene-d8 (Surr)	*93*		*69 - 122*		*03/16/21 12:42*	*1*

Lab Sample ID: LCS 240-476975/5
Matrix: Water
Analysis Batch: 476975

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	41.0		ug/L		103	33 - 155
Benzene	20.0	20.2		ug/L		101	77 - 123
Bromobenzene	20.0	20.2		ug/L		101	77 - 120
Bromochloromethane	20.0	18.9		ug/L		94	70 - 128
Bromodichloromethane	20.0	20.8		ug/L		104	73 - 122
Bromoform	20.0	18.3		ug/L		92	47 - 133
Bromomethane	20.0	20.6		ug/L		103	48 - 144
2-Butanone	40.0	39.2		ug/L		98	41 - 151
Carbon disulfide	20.0	19.4		ug/L		97	67 - 127
Carbon tetrachloride	20.0	18.9		ug/L		94	61 - 142
Chlorobenzene	20.0	19.5		ug/L		98	80 - 120
Chloroethane	20.0	22.9		ug/L		115	41 - 147
2-Chloroethyl vinyl ether	20.0	18.3		ug/L		91	29 - 146
Chloroform	20.0	20.1		ug/L		100	74 - 127
Chloromethane	20.0	23.5		ug/L		117	46 - 148
2-Chlorotoluene	20.0	20.5		ug/L		103	73 - 126
4-Chlorotoluene	20.0	21.1		ug/L		106	73 - 126
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	75 - 124
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	68 - 128
Dibromochloromethane	20.0	19.6		ug/L		98	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	19.8		ug/L		99	34 - 136
1,2-Dibromoethane	20.0	19.6		ug/L		98	73 - 120
Dibromomethane	20.0	19.1		ug/L		96	67 - 121
1,2-Dichlorobenzene	20.0	19.1		ug/L		96	74 - 120
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	74 - 120
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	75 - 120
Dichlorodifluoromethane	20.0	20.9		ug/L		105	35 - 137
1,1-Dichloroethane	20.0	21.5		ug/L		107	74 - 126
1,2-Dichloroethane	20.0	21.2		ug/L		106	66 - 129

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

Lab Sample ID: LCS 240-476975/5
Matrix: Water
Analysis Batch: 476975

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	20.0	19.7		ug/L		99	73 - 129
1,2-Dichloropropane	20.0	22.0		ug/L		110	79 - 127
1,3-Dichloropropane	20.0	21.6		ug/L		108	74 - 122
2,2-Dichloropropane	20.0	21.1		ug/L		106	67 - 137
1,1-Dichloropropene	20.0	20.7		ug/L		103	78 - 120
Ethylbenzene	20.0	20.1		ug/L		101	80 - 120
Hexachlorobutadiene	20.0	20.4		ug/L		102	40 - 120
2-Hexanone	40.0	46.4		ug/L		116	43 - 142
Isopropylbenzene	20.0	20.6		ug/L		103	73 - 123
Methylene Chloride	20.0	19.2		ug/L		96	63 - 134
4-Methyl-2-pentanone	40.0	43.3		ug/L		108	43 - 145
Methyl tert-butyl ether	20.0	20.0		ug/L		100	57 - 127
m-Xylene & p-Xylene	20.0	20.0		ug/L		100	79 - 121
Naphthalene	20.0	21.2		ug/L		106	28 - 130
n-Butylbenzene	20.0	22.3		ug/L		111	54 - 129
n-Propylbenzene	20.0	21.2		ug/L		106	67 - 130
o-Xylene	20.0	20.0		ug/L		100	75 - 123
p-Isopropyltoluene	20.0	21.3		ug/L		107	66 - 127
sec-Butylbenzene	20.0	22.0		ug/L		110	60 - 131
Styrene	20.0	18.1		ug/L		91	75 - 121
tert-Butyl alcohol	200	214		ug/L		107	15 - 169
tert-Butylbenzene	20.0	20.9		ug/L		104	63 - 126
1,1,1,2-Tetrachloroethane	20.0	18.9		ug/L		95	77 - 120
1,1,2,2-Tetrachloroethane	20.0	21.0		ug/L		105	45 - 151
Tetrachloroethene	20.0	19.6		ug/L		98	70 - 125
Toluene	20.0	20.7		ug/L		103	79 - 122
trans-1,2-Dichloroethene	20.0	19.9		ug/L		100	74 - 130
trans-1,3-Dichloropropene	20.0	19.8		ug/L		99	64 - 120
1,2,3-Trichlorobenzene	20.0	21.1		ug/L		106	42 - 126
1,2,4-Trichlorobenzene	20.0	20.4		ug/L		102	47 - 120
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	65 - 141
Trichloroethene	20.0	17.9		ug/L		89	71 - 121
Trichlorofluoromethane	20.0	23.1		ug/L		115	52 - 148
1,2,3-Trichloropropane	20.0	19.2		ug/L		96	57 - 137
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	22.2		ug/L		111	54 - 148
1,2,4-Trimethylbenzene	20.0	21.3		ug/L		106	66 - 129
Vinyl acetate	20.0	21.6		ug/L		108	44 - 160
Vinyl chloride	20.0	25.2		ug/L		126	61 - 134
Xylenes, Total	40.0	40.0		ug/L		100	78 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*47 - 134*
Dibromofluoromethane (Surr)	*91*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 130*
Toluene-d8 (Surr)	*97*		*69 - 122*

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

Lab Sample ID: LCSD 240-476975/10
Matrix: Water
Analysis Batch: 476975

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
Acetone			40.0	38.5		ug/L		96	33 - 155	6	35
Benzene			20.0	20.2		ug/L		101	77 - 123	0	35
Bromobenzene			20.0	19.4		ug/L		97	77 - 120	4	35
Bromochloromethane			20.0	19.2		ug/L		96	70 - 128	2	35
Bromodichloromethane			20.0	20.6		ug/L		103	73 - 122	1	35
Bromoform			20.0	17.6		ug/L		88	47 - 133	4	35
Bromomethane			20.0	18.9		ug/L		94	48 - 144	9	35
2-Butanone			40.0	36.3		ug/L		91	41 - 151	8	35
Carbon disulfide			20.0	19.4		ug/L		97	67 - 127	0	35
Carbon tetrachloride			20.0	19.6		ug/L		98	61 - 142	4	35
Chlorobenzene			20.0	19.9		ug/L		100	80 - 120	2	35
Chloroethane			20.0	20.8		ug/L		104	41 - 147	10	35
2-Chloroethyl vinyl ether			20.0	17.4		ug/L		87	29 - 146	5	35
Chloroform			20.0	20.3		ug/L		102	74 - 127	1	35
Chloromethane			20.0	21.3		ug/L		106	46 - 148	10	35
2-Chlorotoluene			20.0	20.8		ug/L		104	73 - 126	1	35
4-Chlorotoluene			20.0	21.4		ug/L		107	73 - 126	1	35
cis-1,2-Dichloroethene			20.0	20.2		ug/L		101	75 - 124	2	35
cis-1,3-Dichloropropene			20.0	19.8		ug/L		99	68 - 128	3	35
Dibromochloromethane			20.0	19.0		ug/L		95	75 - 120	3	35
1,2-Dibromo-3-Chloropropane			20.0	18.4		ug/L		92	34 - 136	7	35
1,2-Dibromoethane			20.0	19.1		ug/L		96	73 - 120	3	35
Dibromomethane			20.0	19.1		ug/L		96	67 - 121	0	35
1,2-Dichlorobenzene			20.0	18.8		ug/L		94	74 - 120	2	35
1,3-Dichlorobenzene			20.0	19.2		ug/L		96	74 - 120	2	35
1,4-Dichlorobenzene			20.0	19.6		ug/L		98	75 - 120	1	35
Dichlorodifluoromethane			20.0	19.5		ug/L		98	35 - 137	7	35
1,1-Dichloroethane			20.0	21.7		ug/L		108	74 - 126	1	35
1,2-Dichloroethane			20.0	20.7		ug/L		104	66 - 129	2	35
1,1-Dichloroethene			20.0	20.6		ug/L		103	73 - 129	5	35
1,2-Dichloropropane			20.0	22.3		ug/L		111	79 - 127	1	35
1,3-Dichloropropane			20.0	21.2		ug/L		106	74 - 122	2	35
2,2-Dichloropropane			20.0	21.5		ug/L		108	67 - 137	2	35
1,1-Dichloropropene			20.0	20.8		ug/L		104	78 - 120	1	35
Ethylbenzene			20.0	20.3		ug/L		102	80 - 120	1	35
Hexachlorobutadiene			20.0	20.1		ug/L		101	40 - 120	2	35
2-Hexanone			40.0	43.1		ug/L		108	43 - 142	7	35
Isopropylbenzene			20.0	21.4		ug/L		107	73 - 123	3	35
Methylene Chloride			20.0	19.2		ug/L		96	63 - 134	0	35
4-Methyl-2-pentanone			40.0	40.2		ug/L		101	43 - 145	7	35
Methyl tert-butyl ether			20.0	19.2		ug/L		96	57 - 127	4	35
m-Xylene & p-Xylene			20.0	20.6		ug/L		103	79 - 121	3	35
Naphthalene			20.0	20.0		ug/L		100	28 - 130	6	35
n-Butylbenzene			20.0	22.3		ug/L		112	54 - 129	0	35
n-Propylbenzene			20.0	21.5		ug/L		108	67 - 130	2	35
o-Xylene			20.0	20.6		ug/L		103	75 - 123	3	35
p-Isopropyltoluene			20.0	21.6		ug/L		108	66 - 127	1	35
sec-Butylbenzene			20.0	22.3		ug/L		111	60 - 131	1	35

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

Lab Sample ID: LCSD 240-476975/10
Matrix: Water
Analysis Batch: 476975

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
Styrene			20.0	18.7		ug/L		93	75 - 121	3	35
tert-Butyl alcohol			200	199		ug/L		99	15 - 169	8	35
tert-Butylbenzene			20.0	21.3		ug/L		107	63 - 126	2	35
1,1,1,2-Tetrachloroethane			20.0	19.0		ug/L		95	77 - 120	0	35
1,1,2,2-Tetrachloroethane			20.0	19.8		ug/L		99	45 - 151	6	35
Tetrachloroethene			20.0	19.4		ug/L		97	70 - 125	1	35
Toluene			20.0	21.0		ug/L		105	79 - 122	2	35
trans-1,2-Dichloroethene			20.0	20.2		ug/L		101	74 - 130	1	35
trans-1,3-Dichloropropene			20.0	18.8		ug/L		94	64 - 120	5	35
1,2,3-Trichlorobenzene			20.0	19.9		ug/L		100	42 - 126	6	35
1,2,4-Trichlorobenzene			20.0	19.7		ug/L		99	47 - 120	3	35
1,1,1-Trichloroethane			20.0	20.1		ug/L		101	65 - 141	2	35
Trichloroethene			20.0	18.2		ug/L		91	71 - 121	2	35
Trichlorofluoromethane			20.0	21.8		ug/L		109	52 - 148	6	35
1,2,3-Trichloropropane			20.0	18.7		ug/L		94	57 - 137	3	35
1,1,2-Trichloro-1,2,2-trichfluoroethane			20.0	22.8		ug/L		114	54 - 148	3	35
1,2,4-Trimethylbenzene			20.0	21.0		ug/L		105	66 - 129	1	35
Vinyl acetate			20.0	20.2		ug/L		101	44 - 160	7	35
Vinyl chloride			20.0	23.6		ug/L		118	61 - 134	6	35
Xylenes, Total			40.0	41.2		ug/L		103	78 - 122	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*47 - 134*
Dibromofluoromethane (Surr)	*90*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 130*
Toluene-d8 (Surr)	*97*		*69 - 122*

Lab Sample ID: MB 240-477127/8
Matrix: Water
Analysis Batch: 477127

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	5.4	ug/L			03/17/21 09:50	1
Benzene	1.0	U	1.0	0.13	ug/L			03/17/21 09:50	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/17/21 09:50	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/17/21 09:50	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/17/21 09:50	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/17/21 09:50	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/17/21 09:50	1
2-Butanone	10	U	10	1.2	ug/L			03/17/21 09:50	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/17/21 09:50	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/17/21 09:50	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/17/21 09:50	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/17/21 09:50	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/17/21 09:50	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/17/21 09:50	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/17/21 09:50	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/17/21 09:50	1

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

Lab Sample ID: MB 240-477127/8
Matrix: Water
Analysis Batch: 477127

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/17/21 09:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/17/21 09:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/17/21 09:50	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/17/21 09:50	1
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91	ug/L			03/17/21 09:50	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/17/21 09:50	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/17/21 09:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/17/21 09:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/17/21 09:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/17/21 09:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/17/21 09:50	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/17/21 09:50	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/17/21 09:50	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/17/21 09:50	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/17/21 09:50	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/17/21 09:50	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/17/21 09:50	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/17/21 09:50	1
Diisopropyl ether	10	U	10	0.17	ug/L			03/17/21 09:50	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/17/21 09:50	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/17/21 09:50	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/17/21 09:50	1
2-Hexanone	10	U	10	0.54	ug/L			03/17/21 09:50	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/17/21 09:50	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/17/21 09:50	1
4-Methyl-2-pentanone	10	U	10	0.42	ug/L			03/17/21 09:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/17/21 09:50	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/17/21 09:50	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/17/21 09:50	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/17/21 09:50	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/17/21 09:50	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/17/21 09:50	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/17/21 09:50	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/17/21 09:50	1
Styrene	1.0	U	1.0	0.10	ug/L			03/17/21 09:50	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/17/21 09:50	1
tert-Butyl alcohol	40	U	40	1.7	ug/L			03/17/21 09:50	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/17/21 09:50	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/17/21 09:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/17/21 09:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/17/21 09:50	1
Toluene	1.0	U	1.0	0.14	ug/L			03/17/21 09:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/17/21 09:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/17/21 09:50	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/17/21 09:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/17/21 09:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/17/21 09:50	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/17/21 09:50	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/17/21 09:50	1

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

Lab Sample ID: MB 240-477127/8
Matrix: Water
Analysis Batch: 477127

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/17/21 09:50	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/17/21 09:50	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/17/21 09:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/17/21 09:50	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/17/21 09:50	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			03/17/21 09:50	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/17/21 09:50	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/17/21 09:50*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*47 - 134*		*03/17/21 09:50*	*1*
Dibromofluoromethane (Surr)	*93*		*78 - 129*		*03/17/21 09:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 130*		*03/17/21 09:50*	*1*
Toluene-d8 (Surr)	*99*		*69 - 122*		*03/17/21 09:50*	*1*

Lab Sample ID: LCS 240-477127/10
Matrix: Water
Analysis Batch: 477127

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	40.0	43.5		ug/L		109	33 - 155
Benzene	20.0	19.9		ug/L		100	77 - 123
Bromobenzene	20.0	20.7		ug/L		103	77 - 120
Bromochloromethane	20.0	18.6		ug/L		93	70 - 128
Bromodichloromethane	20.0	19.6		ug/L		98	73 - 122
Bromoform	20.0	20.4		ug/L		102	47 - 133
Bromomethane	20.0	16.0		ug/L		80	48 - 144
2-Butanone	40.0	48.5		ug/L		121	41 - 151
Carbon disulfide	20.0	20.0		ug/L		100	67 - 127
Carbon tetrachloride	20.0	19.4		ug/L		97	61 - 142
Chlorobenzene	20.0	19.3		ug/L		97	80 - 120
Chloroethane	20.0	16.9		ug/L		84	41 - 147
2-Chloroethyl vinyl ether	20.0	23.2		ug/L		116	29 - 146
Chloroform	20.0	18.5		ug/L		93	74 - 127
Chloromethane	20.0	16.2		ug/L		81	46 - 148
2-Chlorotoluene	20.0	19.3		ug/L		97	73 - 126
4-Chlorotoluene	20.0	20.3		ug/L		102	73 - 126
cis-1,2-Dichloroethene	20.0	19.1		ug/L		96	75 - 124
cis-1,3-Dichloropropene	20.0	21.4		ug/L		107	68 - 128
Dibromochloromethane	20.0	19.1		ug/L		96	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	18.0		ug/L		90	34 - 136
1,2-Dibromoethane	20.0	20.4		ug/L		102	73 - 120
Dibromomethane	20.0	20.3		ug/L		101	67 - 121
1,2-Dichlorobenzene	20.0	18.3		ug/L		92	74 - 120
1,3-Dichlorobenzene	20.0	18.9		ug/L		95	74 - 120
1,4-Dichlorobenzene	20.0	19.5		ug/L		98	75 - 120

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

Lab Sample ID: LCS 240-477127/10
Matrix: Water
Analysis Batch: 477127

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	20.0	16.0		ug/L		80	35 - 137
1,1-Dichloroethane	20.0	19.0		ug/L		95	74 - 126
1,2-Dichloroethane	20.0	18.6		ug/L		93	66 - 129
1,1-Dichloroethene	20.0	19.0		ug/L		95	73 - 129
1,2-Dichloropropane	20.0	21.3		ug/L		107	79 - 127
1,3-Dichloropropane	20.0	19.6		ug/L		98	74 - 122
2,2-Dichloropropane	20.0	18.9		ug/L		95	67 - 137
1,1-Dichloropropene	20.0	20.1		ug/L		101	78 - 120
Ethylbenzene	20.0	20.1		ug/L		100	80 - 120
Hexachlorobutadiene	20.0	18.0		ug/L		90	40 - 120
2-Hexanone	40.0	44.8		ug/L		112	43 - 142
Isopropylbenzene	20.0	19.3		ug/L		97	73 - 123
Methylene Chloride	20.0	17.4		ug/L		87	63 - 134
4-Methyl-2-pentanone	40.0	42.2		ug/L		106	43 - 145
Methyl tert-butyl ether	20.0	19.4		ug/L		97	57 - 127
m-Xylene & p-Xylene	20.0	19.9		ug/L		100	79 - 121
Naphthalene	20.0	17.8		ug/L		89	28 - 130
n-Butylbenzene	20.0	19.0		ug/L		95	54 - 129
n-Propylbenzene	20.0	20.0		ug/L		100	67 - 130
o-Xylene	20.0	19.4		ug/L		97	75 - 123
p-Isopropyltoluene	20.0	19.5		ug/L		98	66 - 127
sec-Butylbenzene	20.0	19.6		ug/L		98	60 - 131
Styrene	20.0	20.7		ug/L		103	75 - 121
tert-Butyl alcohol	200	191		ug/L		96	15 - 169
tert-Butylbenzene	20.0	18.4		ug/L		92	63 - 126
1,1,1,2-Tetrachloroethane	20.0	18.5		ug/L		92	77 - 120
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		99	45 - 151
Tetrachloroethene	20.0	19.9		ug/L		100	70 - 125
Toluene	20.0	19.3		ug/L		96	79 - 122
trans-1,2-Dichloroethene	20.0	19.4		ug/L		97	74 - 130
trans-1,3-Dichloropropene	20.0	19.3		ug/L		96	64 - 120
1,2,3-Trichlorobenzene	20.0	17.3		ug/L		86	42 - 126
1,2,4-Trichlorobenzene	20.0	17.5		ug/L		88	47 - 120
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	65 - 141
Trichloroethene	20.0	19.8		ug/L		99	71 - 121
Trichlorofluoromethane	20.0	16.2		ug/L		81	52 - 148
1,2,3-Trichloropropane	20.0	20.2		ug/L		101	57 - 137
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	20.8		ug/L		104	54 - 148
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	66 - 129
Vinyl acetate	20.0	25.0		ug/L		125	44 - 160
Vinyl chloride	20.0	17.8		ug/L		89	61 - 134
Xylenes, Total	40.0	39.3		ug/L		98	78 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*47 - 134*
Dibromofluoromethane (Surr)	*91*		*78 - 129*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 130*

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

Lab Sample ID: LCS 240-477127/10
Matrix: Water
Analysis Batch: 477127

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		69 - 122

GC/MS VOA

Analysis Batch: 476369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-145599-1	MSA-SW37A-030821	Total/NA	Water	8260C	
240-145599-2	MSA-SW37B-030821	Total/NA	Water	8260C	
240-145599-3	MSA-SW37C-030821	Total/NA	Water	8260C	
240-145599-4	MSA-SW37D-030821	Total/NA	Water	8260C	
240-145599-5	MSA-SW38A-030821	Total/NA	Water	8260C	
240-145599-6	MSA-SW38B-030821	Total/NA	Water	8260C	
240-145599-7	MSA-SW38C-030821	Total/NA	Water	8260C	
240-145599-8	MSA-SW38D-030821	Total/NA	Water	8260C	
240-145599-9	MSA-SW40A-030821	Total/NA	Water	8260C	
240-145599-10	MSA-SW40B-030821	Total/NA	Water	8260C	
240-145599-11	MSA-SW40C-030821	Total/NA	Water	8260C	
240-145599-12	MSA-SW40D-030821	Total/NA	Water	8260C	
240-145599-13	MSA-SW41A-030821	Total/NA	Water	8260C	
240-145599-14	MSA-SW41B-030821	Total/NA	Water	8260C	
240-145599-15	MSA-SW41C-030821	Total/NA	Water	8260C	
240-145599-16	MSA-SW41D-030821	Total/NA	Water	8260C	
MB 240-476369/8	Method Blank	Total/NA	Water	8260C	
LCS 240-476369/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 240-476369/10	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 476858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-145599-20	MSA-SW42D-030821	Total/NA	Water	8260C	
240-145599-21	MSA-SW43A-030821	Total/NA	Water	8260C	
240-145599-22	MSA-SW43B-030821	Total/NA	Water	8260C	
240-145599-23	MSA-SW43C-030821	Total/NA	Water	8260C	
240-145599-24	MSA-SW43D-030821	Total/NA	Water	8260C	
240-145599-25	MSA-SW44A-030821	Total/NA	Water	8260C	
240-145599-26	MSA-SW44B-030821	Total/NA	Water	8260C	
240-145599-27	MSA-SW44C-030821	Total/NA	Water	8260C	
240-145599-28	MSA-SW44D-030821	Total/NA	Water	8260C	
240-145599-29	TB-030821	Total/NA	Water	8260C	
MB 240-476858/8	Method Blank	Total/NA	Water	8260C	
LCS 240-476858/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 476975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-145599-17	MSA-SW42A-030821	Total/NA	Water	8260C	
240-145599-18	MSA-SW42B-030821	Total/NA	Water	8260C	
240-145599-19	MSA-SW42C-030821	Total/NA	Water	8260C	
240-145599-30	MSA-SW46A-030821	Total/NA	Water	8260C	
240-145599-31	MSA-SW47A-030821	Total/NA	Water	8260C	
240-145599-32	MSA-SW48A-030821	Total/NA	Water	8260C	
240-145599-33	MSA-SW49A-030821	Total/NA	Water	8260C	
MB 240-476975/8	Method Blank	Total/NA	Water	8260C	
LCS 240-476975/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 240-476975/10	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 477127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-145599-17	MSA-SW42A-030821	Total/NA	Water	8260C	

GC/MS VOA (Continued)

Analysis Batch: 477127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-145599-18	MSA-SW42B-030821	Total/NA	Water	8260C	
240-145599-19	MSA-SW42C-030821	Total/NA	Water	8260C	
240-145599-30	MSA-SW46A-030821	Total/NA	Water	8260C	
MB 240-477127/8	Method Blank	Total/NA	Water	8260C	
LCS 240-477127/10	Lab Control Sample	Total/NA	Water	8260C	

Client Sample ID: MSA-SW37A-030821
Lab Sample ID: 240-145599-1
Date Collected: 03/08/21 10:54
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 12:25	HMB	TAL CAN

Client Sample ID: MSA-SW37B-030821
Lab Sample ID: 240-145599-2
Date Collected: 03/08/21 11:00
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 12:49	HMB	TAL CAN

Client Sample ID: MSA-SW37C-030821
Lab Sample ID: 240-145599-3
Date Collected: 03/08/21 11:23
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 13:24	HMB	TAL CAN

Client Sample ID: MSA-SW37D-030821
Lab Sample ID: 240-145599-4
Date Collected: 03/08/21 11:26
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 13:48	HMB	TAL CAN

Client Sample ID: MSA-SW38A-030821
Lab Sample ID: 240-145599-5
Date Collected: 03/08/21 09:51
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 14:13	HMB	TAL CAN

Client Sample ID: MSA-SW38B-030821
Lab Sample ID: 240-145599-6
Date Collected: 03/08/21 09:56
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 14:37	HMB	TAL CAN

Client Sample ID: MSA-SW38C-030821
Lab Sample ID: 240-145599-7
Date Collected: 03/08/21 09:59
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 15:02	HMB	TAL CAN

Client Sample ID: MSA-SW38D-030821
Lab Sample ID: 240-145599-8
Date Collected: 03/08/21 10:02
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 15:27	HMB	TAL CAN

Client Sample ID: MSA-SW40A-030821
Lab Sample ID: 240-145599-9
Date Collected: 03/08/21 10:13
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 15:51	HMB	TAL CAN

Client Sample ID: MSA-SW40B-030821
Lab Sample ID: 240-145599-10
Date Collected: 03/08/21 10:17
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 16:16	HMB	TAL CAN

Client Sample ID: MSA-SW40C-030821
Lab Sample ID: 240-145599-11
Date Collected: 03/08/21 10:19
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 16:41	HMB	TAL CAN

Client Sample ID: MSA-SW40D-030821
Lab Sample ID: 240-145599-12
Date Collected: 03/08/21 10:23
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 17:05	HMB	TAL CAN

Client Sample ID: MSA-SW41A-030821
Lab Sample ID: 240-145599-13
Date Collected: 03/08/21 09:34
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 17:30	HMB	TAL CAN

Client Sample ID: MSA-SW41B-030821
Lab Sample ID: 240-145599-14
Date Collected: 03/08/21 09:36
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 17:54	HMB	TAL CAN

Client Sample ID: MSA-SW41C-030821
Lab Sample ID: 240-145599-15
Date Collected: 03/08/21 09:39
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 18:19	HMB	TAL CAN

Client Sample ID: MSA-SW41D-030821
Lab Sample ID: 240-145599-16
Date Collected: 03/08/21 09:41
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476369	03/11/21 18:43	HMB	TAL CAN

Client Sample ID: MSA-SW42A-030821
Lab Sample ID: 240-145599-17
Date Collected: 03/08/21 10:39
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476975	03/16/21 13:57	HMB	TAL CAN
Total/NA	Analysis	8260C		1	477127	03/17/21 12:01	HMB	TAL CAN

Client Sample ID: MSA-SW42B-030821
Lab Sample ID: 240-145599-18
Date Collected: 03/08/21 10:42
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476975	03/16/21 14:21	HMB	TAL CAN
Total/NA	Analysis	8260C		1	477127	03/17/21 12:23	HMB	TAL CAN

Client Sample ID: MSA-SW42C-030821
Lab Sample ID: 240-145599-19
Date Collected: 03/08/21 10:45
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476975	03/16/21 14:46	HMB	TAL CAN
Total/NA	Analysis	8260C		1	477127	03/17/21 12:46	HMB	TAL CAN

Client Sample ID: MSA-SW42D-030821
Lab Sample ID: 240-145599-20
Date Collected: 03/08/21 10:49
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476858	03/16/21 01:05	TJL1	TAL CAN

Client Sample ID: MSA-SW43A-030821
Lab Sample ID: 240-145599-21
Date Collected: 03/08/21 09:14
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476858	03/16/21 01:34	TJL1	TAL CAN

Client Sample ID: MSA-SW43B-030821
Lab Sample ID: 240-145599-22
Date Collected: 03/08/21 09:16
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476858	03/16/21 02:09	TJL1	TAL CAN

Client Sample ID: MSA-SW43C-030821
Lab Sample ID: 240-145599-23
Date Collected: 03/08/21 09:19
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476858	03/16/21 02:36	TJL1	TAL CAN

Client Sample ID: MSA-SW43D-030821
Lab Sample ID: 240-145599-24
Date Collected: 03/08/21 09:23
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476858	03/16/21 03:06	TJL1	TAL CAN

Client Sample ID: MSA-SW44A-030821
Lab Sample ID: 240-145599-25
Date Collected: 03/08/21 08:58
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476858	03/16/21 03:36	TJL1	TAL CAN

Client Sample ID: MSA-SW44B-030821
Lab Sample ID: 240-145599-26
Date Collected: 03/08/21 09:03
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476858	03/16/21 04:06	TJL1	TAL CAN

Client Sample ID: MSA-SW44C-030821
Lab Sample ID: 240-145599-27
Date Collected: 03/08/21 09:06
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476858	03/16/21 04:37	TJL1	TAL CAN

Client Sample ID: MSA-SW44D-030821
Lab Sample ID: 240-145599-28
Date Collected: 03/08/21 09:09
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476858	03/16/21 05:17	TJL1	TAL CAN

Client Sample ID: TB-030821
Lab Sample ID: 240-145599-29

Date Collected: 03/08/21 00:00
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476858	03/16/21 05:48	TJL1	TAL CAN

Client Sample ID: MSA-SW46A-030821
Lab Sample ID: 240-145599-30

Date Collected: 03/08/21 10:31
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476975	03/16/21 15:10	HMB	TAL CAN
Total/NA	Analysis	8260C		1	477127	03/17/21 13:08	HMB	TAL CAN

Client Sample ID: MSA-SW47A-030821
Lab Sample ID: 240-145599-31

Date Collected: 03/08/21 10:06
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476975	03/16/21 15:35	HMB	TAL CAN

Client Sample ID: MSA-SW48A-030821
Lab Sample ID: 240-145599-32

Date Collected: 03/08/21 09:45
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476975	03/16/21 15:59	HMB	TAL CAN

Client Sample ID: MSA-SW49A-030821
Lab Sample ID: 240-145599-33

Date Collected: 03/08/21 09:28
Matrix: Water
Date Received: 03/09/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476975	03/16/21 16:24	HMB	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21 *
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21 *
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
5030C	Purge and Trap	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water

Job ID: 240-145599-1
SDG: Frog Mortar Creek

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-145599-1	MSA-SW37A-030821	Water	03/08/21 10:54	03/09/21 10:15	
240-145599-2	MSA-SW37B-030821	Water	03/08/21 11:00	03/09/21 10:15	
240-145599-3	MSA-SW37C-030821	Water	03/08/21 11:23	03/09/21 10:15	
240-145599-4	MSA-SW37D-030821	Water	03/08/21 11:26	03/09/21 10:15	
240-145599-5	MSA-SW38A-030821	Water	03/08/21 09:51	03/09/21 10:15	
240-145599-6	MSA-SW38B-030821	Water	03/08/21 09:56	03/09/21 10:15	
240-145599-7	MSA-SW38C-030821	Water	03/08/21 09:59	03/09/21 10:15	
240-145599-8	MSA-SW38D-030821	Water	03/08/21 10:02	03/09/21 10:15	
240-145599-9	MSA-SW40A-030821	Water	03/08/21 10:13	03/09/21 10:15	
240-145599-10	MSA-SW40B-030821	Water	03/08/21 10:17	03/09/21 10:15	
240-145599-11	MSA-SW40C-030821	Water	03/08/21 10:19	03/09/21 10:15	
240-145599-12	MSA-SW40D-030821	Water	03/08/21 10:23	03/09/21 10:15	
240-145599-13	MSA-SW41A-030821	Water	03/08/21 09:34	03/09/21 10:15	
240-145599-14	MSA-SW41B-030821	Water	03/08/21 09:36	03/09/21 10:15	
240-145599-15	MSA-SW41C-030821	Water	03/08/21 09:39	03/09/21 10:15	
240-145599-16	MSA-SW41D-030821	Water	03/08/21 09:41	03/09/21 10:15	
240-145599-17	MSA-SW42A-030821	Water	03/08/21 10:39	03/09/21 10:15	
240-145599-18	MSA-SW42B-030821	Water	03/08/21 10:42	03/09/21 10:15	
240-145599-19	MSA-SW42C-030821	Water	03/08/21 10:45	03/09/21 10:15	
240-145599-20	MSA-SW42D-030821	Water	03/08/21 10:49	03/09/21 10:15	
240-145599-21	MSA-SW43A-030821	Water	03/08/21 09:14	03/09/21 10:15	
240-145599-22	MSA-SW43B-030821	Water	03/08/21 09:16	03/09/21 10:15	
240-145599-23	MSA-SW43C-030821	Water	03/08/21 09:19	03/09/21 10:15	
240-145599-24	MSA-SW43D-030821	Water	03/08/21 09:23	03/09/21 10:15	
240-145599-25	MSA-SW44A-030821	Water	03/08/21 08:58	03/09/21 10:15	
240-145599-26	MSA-SW44B-030821	Water	03/08/21 09:03	03/09/21 10:15	
240-145599-27	MSA-SW44C-030821	Water	03/08/21 09:06	03/09/21 10:15	
240-145599-28	MSA-SW44D-030821	Water	03/08/21 09:09	03/09/21 10:15	
240-145599-29	TB-030821	Water	03/08/21 00:00	03/09/21 10:15	
240-145599-30	MSA-SW46A-030821	Water	03/08/21 10:31	03/09/21 10:15	
240-145599-31	MSA-SW47A-030821	Water	03/08/21 10:06	03/09/21 10:15	
240-145599-32	MSA-SW48A-030821	Water	03/08/21 09:45	03/09/21 10:15	
240-145599-33	MSA-SW49A-030821	Water	03/08/21 09:28	03/09/21 10:15	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 Analysis Batch Number: 450378

Lab Sample ID: STD8260 240-450378/9 IC Client Sample ID:

Date Analyzed: 09/08/20 12:22 Lab File ID: UXM31022.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Bromofluorobenzene (Surr)	9.72	Invalid Compound ID	bosworthh	09/08/20 15:46
Acrolein		Invalid Compound ID	bosworthh	09/08/20 15:42
Bromomethane		Invalid Compound ID	bosworthh	09/08/20 13:24
Hexane		Invalid Compound ID	bosworthh	09/08/20 15:23
n-Heptane		Invalid Compound ID	bosworthh	09/08/20 15:26

Lab Sample ID: STD8260 240-450378/10 I Client Sample ID:

Date Analyzed: 09/08/20 12:47 Lab File ID: UXM31023.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Heptane	5.85	Invalid Compound ID	bosworthh	09/08/20 15:27
4-Bromofluorobenzene (Surr)	9.72	Invalid Compound ID	bosworthh	09/08/20 15:46
Bromomethane		Invalid Compound ID	bosworthh	09/08/20 13:32

Lab Sample ID: STD8260 240-450378/14 I Client Sample ID:

Date Analyzed: 09/08/20 14:26 Lab File ID: UXM31027.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.72	Invalid Compound ID	bosworthh	09/08/20 15:39
4-Bromofluorobenzene (Surr)	9.72	Invalid Compound ID	bosworthh	09/08/20 15:41

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 Analysis Batch Number: 450378

Lab Sample ID: STD8260 240-450378/15 I Client Sample ID:

Date Analyzed: 09/08/20 14:50 Lab File ID: UXM31028.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl acetate	4.38	Invalid Compound ID	bosworthh	09/08/20 15:24
Isobutyl alcohol	5.50	Invalid Compound ID	bosworthh	09/08/20 15:25
n-Heptane	5.87	Invalid Compound ID	bosworthh	09/08/20 15:26
2-Butanone		Invalid Compound ID	bosworthh	09/08/20 15:12
2-Chloroethyl vinyl ether		Invalid Compound ID	bosworthh	09/08/20 15:14
2-Hexanone		Invalid Compound ID	bosworthh	09/08/20 15:15
4-Bromofluorobenzene (Surr)		Invalid Compound ID	bosworthh	09/08/20 15:51
4-Methyl-2-pentanone		Invalid Compound ID	bosworthh	09/08/20 15:15
Acrolein		Invalid Compound ID	bosworthh	09/08/20 15:10
Bromoform		Invalid Compound ID	bosworthh	09/08/20 15:16
Ethyl methacrylate		Invalid Compound ID	bosworthh	09/08/20 15:15
Hexane		Invalid Compound ID	bosworthh	09/08/20 15:10
Methylcyclohexane		Invalid Compound ID	bosworthh	09/08/20 15:14
tert-Butyl alcohol		Invalid Compound ID	bosworthh	09/08/20 15:10
trans-1,4-Dichloro-2-butene		Invalid Compound ID	bosworthh	09/08/20 15:16

Lab Sample ID: STDA9 240-450378/24 IC Client Sample ID:

Date Analyzed: 09/08/20 18:33 Lab File ID: UXM31037.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Pentachloroethane	10.48	Invalid Compound ID	bosworthh	09/09/20 08:24

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 Analysis Batch Number: 476369

Lab Sample ID: 240-145599-1 Client Sample ID: MSA-SW37A-030821

Date Analyzed: 03/11/21 12:25 Lab File ID: UXM35616.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
tert-Butyl alcohol		Invalid Compound ID	bosworthh	03/11/21 13:22

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 Analysis Batch Number: 476975

Lab Sample ID: 240-145599-17 Client Sample ID: MSA-SW42A-030821

Date Analyzed: 03/16/21 13:57 Lab File ID: UXM35689.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane		Invalid Compound ID	bosworthh	03/16/21 14:19
tert-Butyl alcohol		Invalid Compound ID	bosworthh	03/16/21 14:19

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 Analysis Batch Number: 342719

Lab Sample ID: STD8260 240-342719/13 I Client Sample ID:

Date Analyzed: 08/27/18 19:23 Lab File ID: U1901329.d GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane		Invalid Compound ID	laveyt	08/27/18 19:49
Acetone		Invalid Compound ID	laveyt	08/27/18 19:48
Methylene Chloride		Invalid Compound ID	laveyt	08/27/18 19:48
Naphthalene		Invalid Compound ID	laveyt	08/27/18 20:00
n-Heptane		Invalid Compound ID	laveyt	08/27/18 19:48
Tetrahydrofuran		Invalid Compound ID	laveyt	08/27/18 19:48
trans-1,4-Dichloro-2-butene		Invalid Compound ID	laveyt	08/27/18 19:50
1,3-Dichlorobenzene	10.82	Peak assignment corrected	laveyt	08/27/18 19:47

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 Analysis Batch Number: 476858

Lab Sample ID: 240-145599-21 Client Sample ID: MSA-SW43A-030821

Date Analyzed: 03/16/21 01:34 Lab File ID: U1920974.d GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	laveyt	03/16/21 14:35

Lab Sample ID: 240-145599-22 Client Sample ID: MSA-SW43B-030821

Date Analyzed: 03/16/21 02:09 Lab File ID: U1920975.d GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	laveyt	03/16/21 14:35

Lab Sample ID: 240-145599-23 Client Sample ID: MSA-SW43C-030821

Date Analyzed: 03/16/21 02:36 Lab File ID: U1920976.d GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	laveyt	03/16/21 14:36

Lab Sample ID: 240-145599-24 Client Sample ID: MSA-SW43D-030821

Date Analyzed: 03/16/21 03:06 Lab File ID: U1920977.d GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	laveyt	03/16/21 14:37
n-Propylbenzene		Invalid Compound ID	laveyt	03/16/21 14:37

Lab Sample ID: 240-145599-25 Client Sample ID: MSA-SW44A-030821

Date Analyzed: 03/16/21 03:36 Lab File ID: U1920978.d GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	laveyt	03/16/21 14:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 Analysis Batch Number: 476858

Lab Sample ID: 240-145599-26 Client Sample ID: MSA-SW44B-030821

Date Analyzed: 03/16/21 04:06 Lab File ID: U1920979.d GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	laveyt	03/16/21 14:38

Lab Sample ID: 240-145599-28 Client Sample ID: MSA-SW44D-030821

Date Analyzed: 03/16/21 05:17 Lab File ID: U1920981.d GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	laveyt	03/16/21 14:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 Analysis Batch Number: 468309

Lab Sample ID: STD8260 240-468309/8 IC Client Sample ID:

Date Analyzed: 01/07/21 12:44 Lab File ID: UX992599.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.33	Invalid Compound ID	bosworthh	01/08/21 11:46
n-Heptane	5.87	Invalid Compound ID	bosworthh	01/08/21 11:48
Dichlorodifluoromethane		Invalid Compound ID	bosworthh	01/08/21 11:45
Methylene Chloride		Invalid Compound ID	bosworthh	01/08/21 11:47
trans-1,4-Dichloro-2-butene		Invalid Compound ID	bosworthh	01/08/21 11:51

Lab Sample ID: STDA9 240-468309/23 IC Client Sample ID:

Date Analyzed: 01/07/21 18:20 Lab File ID: UX992614.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile		Invalid Compound ID	bosworthh	01/08/21 13:57

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_a_00006	06/09/21	12/09/20	MEOH, Lot 258810	50 mL	vm30241_00008	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00008	10/31/24		restek, Lot A0154377		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100ss_stk_00033	07/07/21	01/07/21	MEOH, Lot 0000258810	100 mL	VM567650_00035	4 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Dibromofluoromethane (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VM567650_00035	11/30/23		Restek, Lot A0143613		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50is_stk_A_00001	11/14/18	05/14/18	MEOH, Lot 191720	50 mL	vm30241_00007	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00007	01/31/23		restek, Lot A0134242		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50is_stk_a_00007	02/07/21	08/07/20	MEOH, Lot 230446	50 mL	vm30241_00007	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00007	01/31/23		restek, Lot A0134242		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50is_stk_a_00008	08/07/21	02/08/21	MEOH, Lot 258810	50 mL	vm30241_00007	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00007	01/31/23		restek, Lot A0134242		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00333	08/29/18	08/22/18	MEOH, Lot na	4 mL	vm50ss_stk_00078	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00078	12/20/18	06/20/18	MEOH, Lot 178178	200 mL	VM567650_00029	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00029	01/31/22		Restek, Lot A0124069		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00417	09/14/20	09/07/20	MEOH, Lot na	5 mL	vm50ss_stk_00085	5 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00085	11/21/20	05/21/20	MEOH, Lot 0000230446	200 mL	VM567650_00032	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00032	07/30/23		Restek, Lot A0139582		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00431	01/12/21	01/05/21	MEOH, Lot na	5 mL	vm50ss_stk_00086	5 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00086	03/28/21	09/28/20	MEOH, Lot 0000230446	200 mL	VM567650_00033	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00033	11/30/23		Restek, Lot A0143613		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00077	09/27/18	03/27/18	MEOH, Lot 0000136118	200 mL	VM567650_00027	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00027	07/31/21		Restek, Lot A0120212		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00085	11/21/20	05/21/20	MEOH, Lot 0000230446	200 mL	VM567650_00032	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00032	07/30/23		Restek, Lot A0139582		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00086	03/28/21	09/28/20	MEOH, Lot 0000230446	200 mL	VM567650_00033	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00033	11/30/23		Restek, Lot A0143613		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00087	09/08/21	03/08/21	MEOH, Lot 0000258810	200 mL	VM567650_00035	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00035	11/30/23		Restek, Lot A0143613		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vmarolistdw_00260	08/27/18	08/20/18	MEOH, Lot na	4 mL	VMACROLSTD_00062	4 mL	Acrolein	250 ug/mL
.VMACROLSTD_00062	08/31/18	06/01/18	MEOH, Lot 178178	100 mL	VM568720_00028	1.25 mL	Acrolein	250 ug/mL
..VM568720_00028	08/31/18		restek, Lot A0135693		(Purchased Reagent)		Acrolein	20000 ug/mL
vmarolistdw_00359	09/11/20	09/04/20	MEOH, Lot na	5 mL	VMACROLSTD_00087	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00087	10/04/20	09/04/20	MEOH, Lot 0000230446	20 mL	VM568720_00039	0.25 mL	Acrolein	250 ug/mL
..VM568720_00039	07/31/21		restek, Lot A0156861		(Purchased Reagent)		Acrolein	20000 ug/mL
vmarolistdw_00375	01/14/21	01/07/21	MEOH, Lot na	5 mL	VMACROLSTD_00091	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00091	02/07/21	01/07/21	MEOH, Lot 0000258810	20 mL	VM568720_00039	0.25 mL	Acrolein	250 ug/mL
..VM568720_00039	07/31/21		restek, Lot A0156861		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00383	03/16/21	03/09/21	MEOH, Lot na	5 mL	VMACROLSTD_00093	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00093	04/09/21	03/09/21	MEOH, Lot +230910000258810JD	20 mL	VM568720_00040	0.25 mL	Acrolein	250 ug/mL
..VM568720_00040	07/31/21		restek, Lot A0161364		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00384	03/23/21	03/16/21	MEOH, Lot na	5 mL	VMACROLSTD_00093	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00093	04/09/21	03/09/21	MEOH, Lot +230910000258810JD	20 mL	VM568720_00040	0.25 mL	Acrolein	250 ug/mL
..VM568720_00040	07/31/21		restek, Lot A0161364		(Purchased Reagent)		Acrolein	20000 ug/mL
vmbfb_00020							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					vm30026_00002	1.25 mL	BFB	50 ug/mL
.vm30026_00002	07/31/21		restek, Lot A0120567		(Purchased Reagent)		BFB	2000 ug/mL
vmbfb_00025							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					vm30026_00003	1.25 mL	BFB	50 ug/mL
.vm30026_00003	08/31/23		restek, Lot A0141187		(Purchased Reagent)		BFB	2000 ug/mL
vmbfb_00026							1,2-Dichloroethene, Total	

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					vm30026_00003	1.25 mL	BFB	50 ug/mL
.vm30026_00003	08/31/23		restek, Lot A0141187		(Purchased Reagent)		BFB	2000 ug/mL
VMFASA9W_00290	09/10/20	09/03/20	MEOH, Lot NA	5 mL	VMFASA9_00022	5 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
.VMFASA9_00022	11/30/20	05/30/20	MEOH, Lot 00000230446	100 mL	VM569727S_00004	2 mL	Cyclohexanone	500 ug/mL
					vm570806S_00005	4 mL	Pentachloroethane	100 ug/mL
					vm570807S_00005	4 mL	2-Methylnaphthalene	100 ug/mL
					VM570808S_00008	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809S_00008	2 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993S_00006	2 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..VM569727S_00004	01/31/22		RESTEK, Lot A0144966		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806S_00005	03/31/22		Restek, Lot A0126373		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807S_00005	04/30/22		Restek, Lot A0126553		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808S_00008	04/30/21		Restek, Lot A0154206		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809S_00008	03/31/21		Restek, Lot A0153337		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
..VM571993S_00006	11/30/20		restek, Lot A0143318		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Diisopropyl ether	2500 ug/mL
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
VMFASA9W_00304	01/14/21	01/07/21	MEOH, Lot NA	5 mL	VMFASA9_00024	5 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
.VMFASA9_00024	03/31/21	10/23/20	MEOH, Lot 00000258810	100 mL	VM569727S_00003	2 mL	Cyclohexanone	500 ug/mL
					vm570806S_00006	4 mL	Pentachloroethane	100 ug/mL
					vm570807S_00006	4 mL	2-Methylnaphthalene	100 ug/mL
					VM570808S_00008	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809S_00008	2 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993S_00007	2 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..VM569727S_00003	03/31/21		RESTEK, Lot A0136499		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806S_00006	02/29/24		Restek, Lot A0146080		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807S_00006	12/31/23		Restek, Lot A0144306		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808S_00008	04/30/21		Restek, Lot A0154206		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809S_00008	03/31/21		Restek, Lot A0153337		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
..VM571993S_00007	05/31/21		restek, Lot A0148991		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Diisopropyl ether	2500 ug/mL
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
VMFASAW_00246	08/31/18	08/24/18	MEOH, Lot NA	4 mL	VMFASA_00044	4 mL	Acrolein	250 ug/mL
.VMFASA_00044	09/30/18	07/31/18	MEOH, Lot 0000196626	100 mL	VM568720S_00026	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00026	09/30/18		restek, Lot A0135949		(Purchased Reagent)		Acrolein	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMFASAW_00342	09/09/20	09/02/20	MEOH, Lot NA	5 mL	VMFASA_00064	5 mL	Acrolein	250 ug/mL
.VMFASA_00064	10/09/20	07/09/20	MEOH, Lot 0000230446	100 mL	VM568720S_00036	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00036	04/30/21		restek, Lot A0154553		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00358	01/14/21	01/07/21	MEOH, Lot NA	5 mL	VMFASA_00068	5 mL	Acrolein	250 ug/mL
.VMFASA_00068	03/06/21	12/06/20	MEOH, Lot 0000258810	100 mL	VM568720S_00037	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00037	04/30/21		restek, Lot A0154553		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00271	08/28/18	08/21/18	MEOH, Lot NA	4 mL	VMFASG_00074	4 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00074	09/13/18	08/13/18	MEOH, Lot 0000196626	100 mL	vm569722S_00004	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..vm569722S_00004	11/30/18		Restek, Lot A0115484		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASGW_00375	09/11/20	09/04/20	MEOH, Lot NA	5 mL	VMFASG_00098	5 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00098	10/04/20	09/04/20	MEOH, Lot 0000230446	100 mL	vm569722S_00007	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..vm569722S_00007	10/31/21		Restek, Lot A0142117		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASGW_00390	01/07/21	12/31/20	MEOH, Lot NA	5 mL	VMFASG_00101	5 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00101	01/07/21	12/07/20	MEOH, Lot 0000258810	100 mL	vm569722S_00008	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..vm569722S_00008	04/30/23		Restek, Lot A0159768		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASGW_00399	03/17/21	03/10/21	MEOH, Lot NA	5 mL	VMFASG_00104	5 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00104	04/10/21	03/10/21	MEOH, Lot 0000258810	100 mL	vm569722S_00008	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..vm569722S_00008	04/30/23		Restek, Lot A0159768		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASPW_00264	09/03/18	08/27/18	MEOH, Lot n/a	4 mL	VMRFASP_00049	4 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00049	10/31/18	07/18/18	MEOH, Lot 0000196626	100 mL	VM569721S_00003	0.8 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723S_00006	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00019	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00002	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00003	03/31/19		Restek, Lot A0108013		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723S_00006	11/30/18		Restek, Lot A0115500		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724S_00019	10/31/18		Restek, Lot A0137486		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00002	12/31/18		Restek, Lot A0123775		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							Total BTEX	12500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	2500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00365	09/13/20	09/06/20	MEOH, Lot n/a	5 mL	VMRFASP_00068	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00068	11/05/20	08/05/20	MEOH, Lot 0000230446	100 mL	VM569721S_00005	0.8 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723S_00008	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00029	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00006	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00005	12/31/20		Restek, Lot A0133078		(Purchased Reagent)		2-Butanone	12500 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723S_00008	11/30/21		Restek, Lot A0143264		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724S_00029	09/30/21		Restek, Lot A0158728		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00006	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							Total BTEX	12500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00381	01/10/21	01/03/21	MEOH, Lot n/a	5 mL	VMRFASP_00072	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00072	06/30/21	12/31/20	MEOH, Lot 0000258810	100 mL	VM569721S_00006	0.8 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723S_00009	2 mL	2-Chloroethyl vinyl ether	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VM569724S_00029	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00007	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00006	11/30/21		Restek, Lot A0143456		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723S_00009	09/30/22		Restek, Lot A0153415		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724S_00029	09/30/21		Restek, Lot A0158728		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00007	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							Total BTEX	12500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00389	03/16/21	03/09/21	MEOH, Lot n/a	5 mL	VMRFASP_00072	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00072	06/30/21	12/31/20	MEOH, Lot 0000258810	100 mL	VM569721S_00006	0.8 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723S_00009	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00029	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00007	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00006	11/30/21		Restek, Lot A0143456		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723S_00009	09/30/22		Restek, Lot A0153415		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724S_00029	09/30/21		Restek, Lot A0158728		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00007	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
VMFASPW_00390	03/23/21	03/16/21	MEOH, Lot n/a	5 mL	VMRFASP_00072	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.VMRFASP_00072	06/30/21	12/31/20	MEOH, Lot 0000258810	100 mL	VM569721S_00006	0.8 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723S_00009	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00029	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00007	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00006	11/30/21		Restek, Lot A0143456		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723S_00009	09/30/22		Restek, Lot A0153415		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724S_00029	09/30/21		Restek, Lot A0158728		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00007	06/30/21		Restek, Lot A0144202		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
vmra9w_00259	07/30/18	07/23/18	MEOH, Lot NA	4 mL	VMRA9_00024	4 mL	1-Chloro-1-fluoroethane TIC	50 ug/mL
							Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
.VMRA9_00024	12/17/18	06/17/18	MEOH, Lot 173605TF	50 mL	Freon 151_00003	1 mL	1-Chloro-1-fluoroethane TIC	50 ug/mL
					VM569727_00002	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00003	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00003	2 mL	2-Methylnaphthalene	100 ug/mL
					VM570808_00004	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809_00005	1 mL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VM571993_00001	1 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..Freon 151_00003	12/17/18	06/17/18	MEOH, Lot 173605TF	20 mL	Freon 151_00001	0.5 mL	1-Chloro-1-fluoroethane TIC	2500 ug/mL
...Freon 151_00001	06/18/19	SynQuest Laboratories , Inc, Lot 270800			(Purchased Reagent)		1-Chloro-1-fluoroethane TIC	10 %
..VM569727_00002	03/31/19	RESTEK, Lot A0118487			(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00003	04/30/22	Restek, Lot A0126447			(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00003	02/28/22	Restek, Lot A0125050			(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808_00004	05/31/19	Restek, Lot A0132816			(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00005	04/30/19	Restek, Lot A0131668			(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..VM571993_00001	12/31/18	restek, Lot A0123796			(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Diisopropyl ether	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
vmra9w_00359	09/09/20	09/02/20	MEOH, Lot NA	5 mL	VMRA9_00032	5 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
.VMRA9_00032	01/31/21	07/31/20	MEOH, Lot 0000230446	50 mL	VM569727_00004	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00005	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00005	2 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
					VM570808_00006	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809_00007	1 mL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VM571993_00004	1 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..VM569727_00004	01/31/22		RESTEK, Lot A0145193		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00005	08/31/23		Restek, Lot A0140938		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00005	04/30/22		Restek, Lot A0126478		(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
..VM570808_00006	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00007	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..VM571993_00004	03/31/22		restek, Lot A0158947		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Diisopropyl ether	2500 ug/mL
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
vmra9w_00374	01/07/21	12/31/20	MEOH, Lot NA	5 mL	VMRA9_00032	5 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
.VMRA9_00032	01/31/21	07/31/20	MEOH, Lot 0000230446	50 mL	VM569727_00004	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00005	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00005	2 mL	1-Methylnaphthalene	100 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	100 ug/mL
					VM570808_00006	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Isooctane	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809_00007	1 mL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VM571993_00004	1 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..VM569727_00004	01/31/22		RESTEK, Lot A0145193		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00005	08/31/23		Restek, Lot A0140938		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00005	04/30/22		Restek, Lot A0126478		(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
..VM570808_00006	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00007	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..VM571993_00004	03/31/22		restek, Lot A0158947		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Diisopropyl ether	2500 ug/mL
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
VMRA9W_00382	03/12/21	03/05/21	MEOH, Lot NA	5 mL	VMRA9_00033	5 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
.VMRA9_00033	05/31/21	02/01/21	MEOH, Lot 0000258810	50 mL	VM569727_00005	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00005	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00005	2 mL	2-Methylnaphthalene	100 ug/mL
					VM570808_00006	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809_00007	1 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993_00004	1 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..VM569727_00005	02/28/23		RESTEK, Lot A0158129		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00005	08/31/23		Restek, Lot A0140938		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00005	04/30/22		Restek, Lot A0126478		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808_00006	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00007	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
..VM571993_00004	03/31/22		restek, Lot A0158947		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Diisopropyl ether	2500 ug/mL
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
VMRA9W_00383	03/20/21	03/13/21	MEOH, Lot NA	5 mL	VMRA9_00033	5 mL	Cyclohexanone	500 ug/mL
							Pentachloroethane	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
							Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
.VMRA9_00033	05/31/21	02/01/21	MEOH, Lot 0000258810	50 mL	VM569727_00005	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00005	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00005	2 mL	2-Methylnaphthalene	100 ug/mL
					VM570808_00006	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809_00007	1 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993_00004	1 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl-t-butyl ether (ETBE)	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl-methyl ether (TAME)	50 ug/mL
..VM569727_00005	02/28/23		RESTEK, Lot A0158129		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806_00005	08/31/23		Restek, Lot A0140938		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00005	04/30/22		Restek, Lot A0126478		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808_00006	05/31/21		Restek, Lot A0154734		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00007	06/30/21		Restek, Lot A0156071		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
..VM571993_00004	03/31/22		restek, Lot A0158947		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Diisopropyl ether	2500 ug/mL
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
vmrgas_00259	08/31/18	08/24/18	MEOH, Lot 0000196628	10 mL	vm569722_00011	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00011	10/31/20		Restek, Lot A0131502		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vmrgas_00353	09/09/20	09/02/20	MEOH, Lot 0000230446	10 mL	vm569722_00017	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00017	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
vmrgas_00368	01/07/21	12/31/20	MEOH, Lot 0000258810	10 mL	vm569722_00017	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00017	03/31/23		Restek, Lot A0159085		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00376	03/13/21	03/06/21	MEOH, Lot 0000258810	10 mL	vm569722_00015	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00015	11/30/22		Restek, Lot A0154679		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00377	03/21/21	03/14/21	MEOH, Lot 0000258810	10 mL	vm569722_00015	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00015	11/30/22		Restek, Lot A0154679		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
vmrprimw_00297	08/29/18	08/22/18	MEOH, Lot NA	4 mL	VMRPRIM_00029	4 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMRPRIM_00029	10/31/18	07/28/18	MEOH, Lot 0000196626	50 mL	VM569721_00004	0.4 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00004	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00016	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_00001	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
..VM569721_00004	11/30/18		Restek, Lot A0115554		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00004	11/30/18		restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00016	10/31/18		Restek, Lot A0137562		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00001	12/31/18		Restek, Lot A0123711		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL

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SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VMRPRIMW_00297	08/29/18	08/22/18	MEOH, Lot NA	4 mL	VMRPRIM_00029	4 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00029	10/31/18	07/28/18	MEOH, Lot 0000196626	50 mL	VM571992_00001	1 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM571992_00001	12/31/18		Restek, Lot A0123711		(Purchased Reagent)		Total BTEX	12500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
vmrprimw_00402	09/11/20	09/04/20	MEOH, Lot NA	5 mL	VMRPRIM_00047	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMRPRIM_00047	11/27/20	08/27/20	MEOH, Lot 0000230446	50 mL	VM569721_00006	0.4 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00008	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00024	0.5 mL	Vinyl acetate	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VM571992_00003	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
..VM569721_00006	04/30/21		Restek, Lot A0137509		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00008	02/28/22		restek, Lot A0146250		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00024	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00003	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VMRPRIMW_00402	09/11/20	09/04/20	MEOH, Lot NA	5 mL	VMRPRIM_00047	5 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00047	11/27/20	08/27/20	MEOH, Lot 0000230446	50 mL	VM571992_00003	1 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM571992_00003	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		Total BTEX	12500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
vmrprimw_00418	01/14/21	01/07/21	MEOH, Lot NA	5 mL	VMRPRIM_00048	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
.VMRPRIM_00048	02/28/21	11/28/20	MEOH, Lot 0000258810	50 mL	VM569721_00007	0.4 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	100 ug/mL
					VM569723_00008	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00024	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_00004	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
..VM569721_00007	09/30/22		Restek, Lot A0152956		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00008	02/28/22		restek, Lot A0146250		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00024	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00004	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VMRPRIMW_00418	01/14/21	01/07/21	MEOH, Lot NA	5 mL	VMRPRIM_00048	5 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00048	02/28/21	11/28/20	MEOH, Lot 0000258810	50 mL	VM571992_00004	1 mL	Total BTEX	250 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM571992_00004	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		Total BTEX	12500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
VMRPRIMW_00426	03/16/21	03/09/21	MEOH, Lot NA	5 mL	VMRPRIM_00049	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00049	06/01/21	03/01/21	MEOH, Lot 0000258810	50 mL	VM569721_00007	0.4 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00008	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00024	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_00004	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721_00007	09/30/22		Restek, Lot A0152956		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00008	02/28/22		restek, Lot A0146250		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00024	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00004	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							Total BTEX	12500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL
VMRPRIMW_00427	03/23/21	03/16/21	MEOH, Lot NA	5 mL	VMRPRIM_00049	5 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
							1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
.VMRPRIM_00049	06/01/21	03/01/21	MEOH, Lot 0000258810	50 mL	VM569721_00007	0.4 mL	2-Butanone	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone	100 ug/mL
							Acetone	100 ug/mL
					VM569723_00008	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00024	0.5 mL	Vinyl acetate	50 ug/mL
					VM571992_00004	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							p-Isopropyltoluene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							Total BTEX	250 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Trihalomethanes, Total	200 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721_00007	09/30/22		Restek, Lot A0152956		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00008	02/28/22		restek, Lot A0146250		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00024	07/31/21		Restek, Lot A0156559		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992_00004	06/30/21		Restek, Lot A0143774		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trichfluoroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butyl alcohol	25000 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Total BTEX	12500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Trihalomethanes, Total	10000 ug/mL
							Xylenes, Total	5000 ug/mL

Reagent

vm30026_00002

Rec: 4/11/17 (5)

VM30026-00002

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30026 **Lot No.:** A0120567

Description : 4-Bromofluorobenzene Mixture

4-Bromofluorobenzene 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB)	2,019.3 µg/mL	+/- 11.8506	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KOV)		+/- 113.2335	µg/mL	Unstressed
	Purity 99%		+/- 115.8825	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm30026_00003

Rec: 11/28/18
VM30026-00063

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30026 **Lot No.:** A0141187

Description : 4-Bromofluorobenzene Mixture

4-Bromofluorobenzene 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1-Bromo-4-fluorobenzene (BFB)	2,004.7 µg/mL	+/- 11.7645	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 112.4110	µg/mL	Unstressed
	Purity 99%		+/- 115.0408	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm30241_00007

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30241 **Lot No.:** A0134242

Description : 8260A Internal Standard Mix

8260A Internal Standard Mix 2,500 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Fluorobenzene		2,503.6 µg/mL	+/- 14.5561	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)		+/- 140.3744	µg/mL	Unstressed
	Purity 99%			+/- 143.6590	µg/mL	Stressed
2	Chlorobenzene-d5		2,506.4 µg/mL	+/- 14.5724	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-22736)		+/- 140.5314	µg/mL	Unstressed
	Purity 99%			+/- 143.8196	µg/mL	Stressed
3	1,4-Dichlorobenzene-d4		2,513.4 µg/mL	+/- 14.6131	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)		+/- 140.9238	µg/mL	Unstressed
	Purity 99%			+/- 144.2213	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

VM30241-00007

REC'D 5-4-18

Reagent

VM567650_00027

VM567650-00027 Rec: 4/10/17 (39)

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0120212

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,521.3 µg/mL	+/- 14.6591 µg/mL		Gravimetric
	CAS # 1868-53-7	(Lot 032015)		+/- 141.3668 µg/mL		Unstressed
	Purity 99%			+/- 144.6746 µg/mL		Stressed
2	1,2-Dichloroethane-d4		2,523.7 µg/mL	+/- 14.6730 µg/mL		Gravimetric
	CAS # 17060-07-0	(Lot 14C-191)		+/- 141.5014 µg/mL		Unstressed
	Purity 99%			+/- 144.8123 µg/mL		Stressed
3	Toluene-d8		2,523.6 µg/mL	+/- 14.6724 µg/mL		Gravimetric
	CAS # 2037-26-5	(Lot PR-26623)		+/- 141.4957 µg/mL		Unstressed
	Purity 99%			+/- 144.8066 µg/mL		Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,510.9 µg/mL	+/- 14.5986 µg/mL		Gravimetric
	CAS # 460-00-4	(Lot 20401KOV)		+/- 140.7837 µg/mL		Unstressed
	Purity 99%			+/- 144.0778 µg/mL		Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567650_00029

Rec: 8/22/17

VM567650-00029

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0124069

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 0012016) **Purity** 99%	2,521.2 µg/mL	+/- 14.6582 µg/mL +/- 141.3584 µg/mL +/- 144.6660 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-25433) **Purity** 98%	2,513.8 µg/mL	+/- 14.6157 µg/mL +/- 140.9489 µg/mL +/- 144.2469 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-27311) **Purity** 99%	2,519.4 µg/mL	+/- 14.6480 µg/mL +/- 141.2603 µg/mL +/- 144.5656 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KOV) **Purity** 99%	2,520.8 µg/mL	+/- 14.6559 µg/mL +/- 141.3360 µg/mL +/- 144.6430 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567650_00033

VM567650_00033 Rec: 4/9/19

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0143613

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 0012017) **Purity** 99%	2,506.4 µg/mL	+/- 14.5724 µg/mL +/- 140.5314 µg/mL +/- 143.8196 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-29377) **Purity** 99%	2,503.8 µg/mL	+/- 14.5570 µg/mL +/- 140.3828 µg/mL +/- 143.6676 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-27311) **Purity** 99%	2,512.2 µg/mL	+/- 14.6059 µg/mL +/- 140.8538 µg/mL +/- 144.1496 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,501.8 µg/mL	+/- 14.5457 µg/mL +/- 140.2734 µg/mL +/- 143.5557 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567650_00035

Rec: 12/4/19
VM567650_00035

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0143613

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 0012017) **Purity** 99%	2,506.4 µg/mL	+/- 14.5724 µg/mL +/- 140.5314 µg/mL +/- 143.8196 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-29377) **Purity** 99%	2,503.8 µg/mL	+/- 14.5570 µg/mL +/- 140.3828 µg/mL +/- 143.6676 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-27311) **Purity** 99%	2,512.2 µg/mL	+/- 14.6059 µg/mL +/- 140.8538 µg/mL +/- 144.1496 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,501.8 µg/mL	+/- 14.5457 µg/mL +/- 140.2734 µg/mL +/- 143.5557 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM568720_00028

rec: 6/1/18

VM568720-00028

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0135693

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2018 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein		19,777.5	µg/mL	+/- 115.8016	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot 171116JLM)			+/- 634.1288	µg/mL	Unstressed
	Purity 99%				+/- 737.1054	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720_00039

Rec: 4/7/20
VM568720_00039

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0156861

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acrolein	19,752.0 µg/mL	+/- 115.6523 µg/mL	Gravimetric
	CAS # 107-02-8 (Lot D0012019-1219)		+/- 394.5922 µg/mL	Unstressed
	Purity 99%		+/- 885.2572 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720_00040

Rc'd 9/17/20 VM 568720_ 00040

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0156859

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Acrolein		19,830.0 µg/mL	+/-	116.1090	µg/mL	Gravimetric
	CAS # 107-02-8	(Lot D0012019-1219)		+/-	396.1504	µg/mL	Unstressed
	Purity 99%			+/-	888.7531	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720S_00026

Rec'd 6/1/18

VM5687205-00026

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720.SEC **Lot No.:** A0135949

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2018 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	19,772.0 µg/mL	+/- 116.0332	µg/mL	Gravimetric
	CAS # 107-02-8.SEC (Lot X19C007)		+/- 634.0007	µg/mL	Unstressed
	Purity 99%		+/- 736.9419	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720S_00036

Rec: 1/16/20 VM 568720.SEC — 000396

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720.SEC **Lot No.:** A0154553

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	19,750.0 µg/mL	+/- 115.6405	µg/mL	Gravimetric
	CAS # 107-02-8.SEC (Lot D8402600-1024)		+/- 394.5517	µg/mL	Unstressed
	Purity 97%		+/- 885.1665	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720S_00037

Rec: 4/7/20
VM568720S-00037

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720.SEC **Lot No.:** A0154553

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein		19,750.0 µg/mL	+/- 115.6405	µg/mL	Gravimetric
	CAS # 107-02-8.SEC	(Lot D8402600-1024)		+/- 394.5517	µg/mL	Unstressed
	Purity 97%			+/- 885.1665	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569721_00004

Rec: 1-25-17

VM569721-00004

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0115554

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone		12,501.8 µg/mL	+/- 72.6865	µg/mL	Gravimetric
	CAS # 67-64-1	(Lot 07196AK)		+/- 754.2890	µg/mL	Unstressed
	Purity 99%			+/- 756.0798	µg/mL	Stressed
2	2-Butanone (MEK)		12,499.7 µg/mL	+/- 72.6744	µg/mL	Gravimetric
	CAS # 78-93-3	(Lot SHBG0444V)		+/- 754.1625	µg/mL	Unstressed
	Purity 98%			+/- 755.9530	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)		12,500.6 µg/mL	+/- 72.6796	µg/mL	Gravimetric
	CAS # 108-10-1	(Lot SHBF9556V)		+/- 754.2166	µg/mL	Unstressed
	Purity 99%			+/- 756.0072	µg/mL	Stressed
4	2-Hexanone		12,502.4 µg/mL	+/- 72.6900	µg/mL	Gravimetric
	CAS # 591-78-6	(Lot MKBT3158V)		+/- 754.3252	µg/mL	Unstressed
	Purity 99%			+/- 756.1161	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM569721_00006

RCL: 12/4/18

VM569721_00006

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Catalog No. : 569721 **Lot No.:** A0137509

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1 (Lot SHBH6933) **Purity** 99%	12,619.0 µg/mL	+/- 73.8870 µg/mL +/- 761.4104 µg/mL +/- 763.2179 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBF2461V) **Purity** 99%	12,602.0 µg/mL	+/- 73.7875 µg/mL +/- 760.3846 µg/mL +/- 762.1897 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBH7006) **Purity** 99%	12,531.0 µg/mL	+/- 73.3718 µg/mL +/- 756.1006 µg/mL +/- 757.8955 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKBW0198V) **Purity** 99%	12,606.0 µg/mL	+/- 73.8109 µg/mL +/- 760.6260 µg/mL +/- 762.4316 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM569721_00007

Rec: 2-21-20

VM569721-00007

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Catalog No. : 569721 **Lot No.:** A0152956

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone **CAS #** 67-64-1 (Lot SHBK6362) **Purity** 99%	12,546.0 µg/mL	+/- 73.4596 +/- 757.0057 +/- 758.8027	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 (Lot SHBK5945) **Purity** 99%	12,564.0 µg/mL	+/- 73.5650 +/- 758.0918 +/- 759.8914	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 (Lot SHBK5017) **Purity** 99%	12,558.0 µg/mL	+/- 73.5299 +/- 757.7297 +/- 759.5285	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 (Lot MKCD9048) **Purity** 99%	12,562.0 µg/mL	+/- 73.5533 +/- 757.9711 +/- 759.7704	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM569721S_00003

Rec: 7/12/16 (20)
VM569721S-00003

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.sec **Lot No.:** A0118013

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone **CAS #** 67-64-1.SEC (Lot P14A572) **Purity** 99%	12,550.0 µg/mL	+/- 73.4830 µg/mL +/- 757.2470 µg/mL +/- 759.0446 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3.SEC (Lot RA58J) **Purity** 99%	12,603.0 µg/mL	+/- 73.7933 µg/mL +/- 760.4450 µg/mL +/- 762.2502 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1.SEC (Lot E29T040) **Purity** 99%	12,591.5 µg/mL	+/- 73.7260 µg/mL +/- 759.7511 µg/mL +/- 761.5546 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6.SEC (Lot V3NRA) **Purity** 99%	12,588.0 µg/mL	+/- 73.7055 µg/mL +/- 759.5399 µg/mL +/- 761.3429 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM569721S_00005

Rec: 6/15/18 20 vials

VM569721S-00005

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Catalog No. : 569721.SEC **Lot No.:** A0133078

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	12,504.8 µg/mL	+/- 73.2184	µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot P14A572)		+/- 754.5197	µg/mL	Unstressed
	Purity 99%		+/- 756.3109	µg/mL	Stressed
2	2-Butanone (MEK)	12,504.0 µg/mL	+/- 73.2137	µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RA58J)		+/- 754.4715	µg/mL	Unstressed
	Purity 99%		+/- 756.2625	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,500.8 µg/mL	+/- 73.1949	µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.2784	µg/mL	Unstressed
	Purity 99%		+/- 756.0689	µg/mL	Stressed
4	2-Hexanone	12,503.6 µg/mL	+/- 73.2113	µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot V3NRA)		+/- 754.4473	µg/mL	Unstressed
	Purity 99%		+/- 756.2383	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM569721S_00006

Rec: 2-25-20

VM569721S-00006

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Catalog No. : 569721.SEC **Lot No.:** A0143456

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,524.5 µg/mL	+/- 72.8185 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot U13B039)		+/- 755.6586 µg/mL	Unstressed
	Purity 99%		+/- 757.4526 µg/mL	Stressed
2	2-Butanone (MEK)	12,527.8 µg/mL	+/- 72.8374 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 755.8547 µg/mL	Unstressed
	Purity 99%		+/- 757.6492 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,515.3 µg/mL	+/- 72.7647 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 755.1005 µg/mL	Unstressed
	Purity 99%		+/- 756.8932 µg/mL	Stressed
4	2-Hexanone	12,516.8 µg/mL	+/- 72.7738 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 755.1943 µg/mL	Unstressed
	Purity 98%		+/- 756.9873 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

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vm569722_00011

Rec: 4/17/18

VM569722_00011

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Catalog No. : 569722 **Lot No.:** A0131502

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot Q167-08) **Purity** 99%	2,501.3 µg/mL	+/- 20.2137 µg/mL +/- 140.9452 µg/mL +/- 144.2108 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBG9707V) **Purity** 99%	2,504.9 µg/mL	+/- 24.8531 µg/mL +/- 141.8827 µg/mL +/- 145.1364 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 1026101231B1) **Purity** 99%	2,498.3 µg/mL	+/- 21.7258 µg/mL +/- 141.0069 µg/mL +/- 144.2635 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBH7966) **Purity** 99%	2,499.9 µg/mL	+/- 19.8572 µg/mL +/- 140.8167 µg/mL +/- 144.0816 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,500.4 µg/mL	+/- 24.9675 µg/mL +/- 141.6590 µg/mL +/- 144.9064 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 23593) **Purity** 99%	2,500.1 µg/mL	+/- 25.2649 µg/mL +/- 141.6931 µg/mL +/- 144.9388 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 4938100) **Purity** 99%	2,500.0 µg/mL	+/- 16.7114 µg/mL +/- 140.4149 µg/mL +/- 143.6892 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 **Purity** 99%	(Lot SHBH4155V)	2,499.5	µg/mL	+/- 20.7085 +/- 140.9189 +/- 144.1805	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

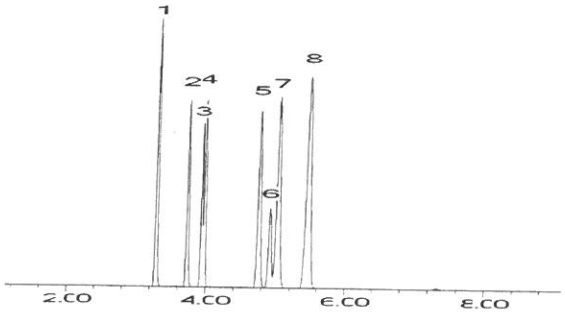
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician **Date Mixed:** 10-Oct-2017 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 12-Oct-2017

Manufactured under Restek's ISO 9001:2008
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Reagent

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VM569722_0005

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Catalog No. : 569722 **Lot No.:** A0154679

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 (Lot 00012554) **Purity** 99%	2,502.7 µg/mL	+/- 18.2705 µg/mL +/- 140.7566 µg/mL +/- 144.0300 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBK6571) **Purity** 99%	2,500.3 µg/mL	+/- 18.7547 µg/mL +/- 140.6865 µg/mL +/- 143.9553 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00015559) **Purity** 99%	2,501.1 µg/mL	+/- 18.5858 µg/mL +/- 140.7083 µg/mL +/- 143.9787 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,497.1 µg/mL	+/- 17.5808 µg/mL +/- 140.3628 µg/mL +/- 143.6309 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,500.8 µg/mL	+/- 23.3138 µg/mL +/- 141.3956 µg/mL +/- 144.6498 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,499.0 µg/mL	+/- 21.4252 µg/mL +/- 140.9973 µg/mL +/- 144.2558 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 4938100) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)			2,499.6	µg/mL	+/-	21.2368	µg/mL	Gravimetric
	CAS #	75-69-4	(Lot 25931)			+/-	141.0019	µg/mL	Unstressed
	Purity	99%				+/-	144.2618	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

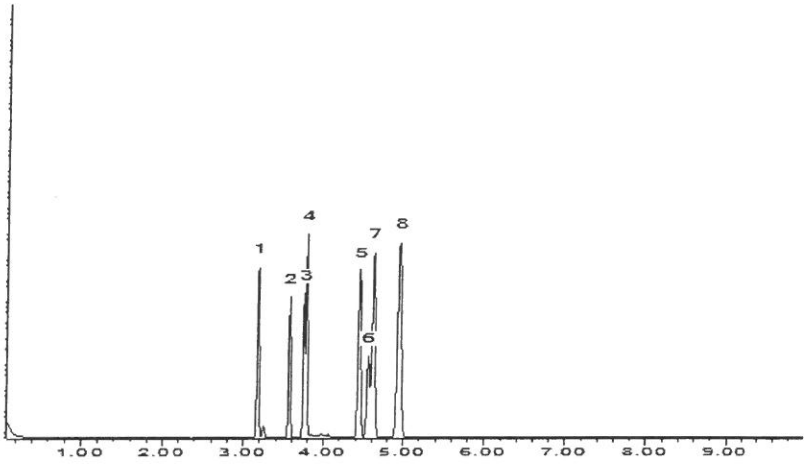
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 04-Nov-2019 **Balance:** B707717271

Feng-Yun Lo - QC Analyst

Date Passed: 10-Nov-2019

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Reagent

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Rec! 6/29/20
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 **Lot No.:** A0159085

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,502.3 µg/mL	+/- 16.4178	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 140.5076	µg/mL	Unstressed
	Purity 99%		+/- 143.7858	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,500.6 µg/mL	+/- 16.3299	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 140.4038	µg/mL	Unstressed
	Purity 99%		+/- 143.6799	µg/mL	Stressed
3	Vinyl chloride	2,500.2 µg/mL	+/- 17.2154	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 140.4890	µg/mL	Unstressed
	Purity 99%		+/- 143.7623	µg/mL	Stressed
4	1,3-Butadiene	2,500.7 µg/mL	+/- 17.6652	µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBK2299)		+/- 140.5681	µg/mL	Unstressed
	Purity 99%		+/- 143.8406	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,501.2 µg/mL	+/- 16.4034	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 140.4450	µg/mL	Unstressed
	Purity 99%		+/- 143.7217	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,500.3 µg/mL	+/- 17.7279	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 140.5555	µg/mL	Unstressed
	Purity 99%		+/- 143.8274	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 8582700)		+/- 140.1725	µg/mL	Unstressed
	Purity 99%		+/- 143.4524	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,501.4	µg/mL	+/-	16.0800	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	140.4203	µg/mL	Unstressed
	Purity 99%				+/-	143.6982	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

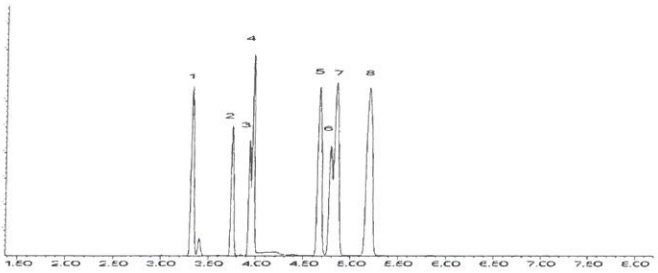
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician **Date Mixed:** 23-Mar-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 26-Mar-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

vm569722S_00004

VM569722S-00004 Rec'd 7/12/16 (20)

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722.sec **Lot No.:** A0115484

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 22274) **Purity** 99%	2,505.6 µg/mL	+/- 16.6251 µg/mL +/- 140.7169 µg/mL +/- 143.9990 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,517.3 µg/mL	+/- 17.3796 µg/mL +/- 141.4522 µg/mL +/- 144.7477 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,510.2 µg/mL	+/- 16.6342 µg/mL +/- 140.9727 µg/mL +/- 144.2609 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 22331) **Purity** 99%	2,516.5 µg/mL	+/- 17.4874 µg/mL +/- 141.4240 µg/mL +/- 144.7182 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot Q119-46) **Purity** 99%	2,511.5 µg/mL	+/- 16.8310 µg/mL +/- 141.0664 µg/mL +/- 144.3557 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,504.8 µg/mL	+/- 16.4341 µg/mL +/- 140.6469 µg/mL +/- 143.9283 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4.SEC (Lot SHBC0858V) **Purity** 99%	2,500.5 µg/mL	+/- 16.1659 µg/mL +/- 140.3776 µg/mL +/- 143.6540 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,524.5	µg/mL	+/- 16.8928	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot Q12B-59)			+/- 141.7952	µg/mL	Unstressed
	Purity 99%				+/- 145.1017	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

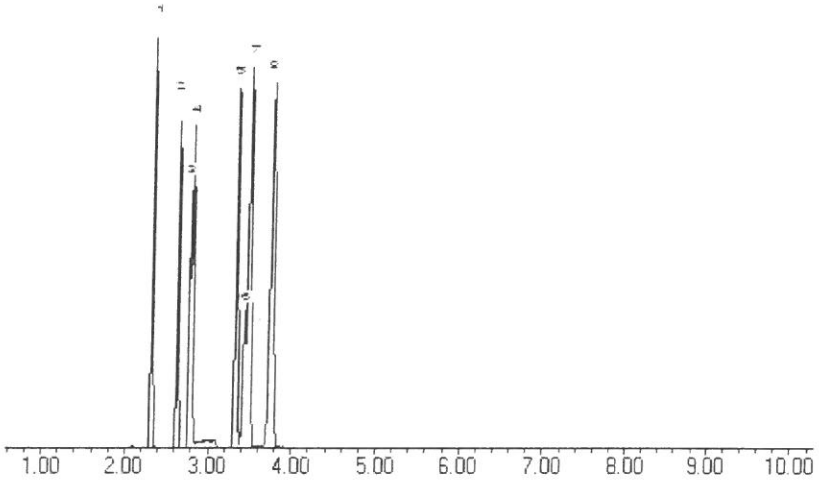
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 17-Nov-2015 **Balance:** 1127510105

Jennifer L. Pollino - QC Analyst

Date Passed: 10-Dec-2015

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

Reagent

vm569722S_00007

VM569722S-00007

Rec: 1-23-19

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722.SEC **Lot No.:** A0142117

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,503.0 µg/mL	+/- 23.3708 µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 24847)		+/- 141.5277 µg/mL	Unstressed
	Purity 99%		+/- 144.7846 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,497.4 µg/mL	+/- 25.3963 µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 141.5662 µg/mL	Unstressed
	Purity 99%		+/- 144.8078 µg/mL	Stressed
3	Vinyl chloride	2,501.8 µg/mL	+/- 19.5755 µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 140.8855 µg/mL	Unstressed
	Purity 99%		+/- 144.1539 µg/mL	Stressed
4	1,3-Butadiene	2,505.3 µg/mL	+/- 20.9927 µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 22331)		+/- 141.2797 µg/mL	Unstressed
	Purity 99%		+/- 144.5480 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,498.6 µg/mL	+/- 25.6449 µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 141.6796 µg/mL	Unstressed
	Purity 99%		+/- 144.9218 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,498.9 µg/mL	+/- 24.9623 µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 141.5741 µg/mL	Unstressed
	Purity 99%		+/- 144.8194 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/- 14.6714 µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 7766400)		+/- 140.1867 µg/mL	Unstressed
	Purity 99%		+/- 143.4662 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,501.7 µg/mL	+/-	23.1926	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)		+/-	141.4285	µg/mL	Unstressed
	Purity 99%			+/-	144.6844	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

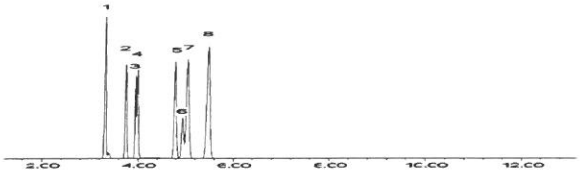
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Date Mixed: 04-Oct-2018 **Balance:** 1127510105

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 08-Oct-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

vm569722S_00008

Rec: 7/17/20
VM569722S-00008

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722.SEC **Lot No.:** A0159768

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 26165) **Purity** 99%	2,501.8 µg/mL	+/- 19.9803 µg/mL +/- 140.9385 µg/mL +/- 144.2054 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,510.1 µg/mL	+/- 18.7758 µg/mL +/- 141.2337 µg/mL +/- 144.5155 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,518.3 µg/mL	+/- 19.4159 µg/mL +/- 141.7727 µg/mL +/- 145.0634 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 24033) **Purity** 99%	2,510.8 µg/mL	+/- 17.5328 µg/mL +/- 141.1137 µg/mL +/- 144.4001 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,506.4 µg/mL	+/- 23.4232 µg/mL +/- 141.7223 µg/mL +/- 144.9835 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,523.5 µg/mL	+/- 21.4589 µg/mL +/- 142.3524 µg/mL +/- 145.6434 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * (Lot 4938100) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 140.1725 µg/mL +/- 143.4524 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,496.5	µg/mL	+/-	17.7311	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	140.3462	µg/mL	Unstressed
	Purity 99%				+/-	143.6131	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

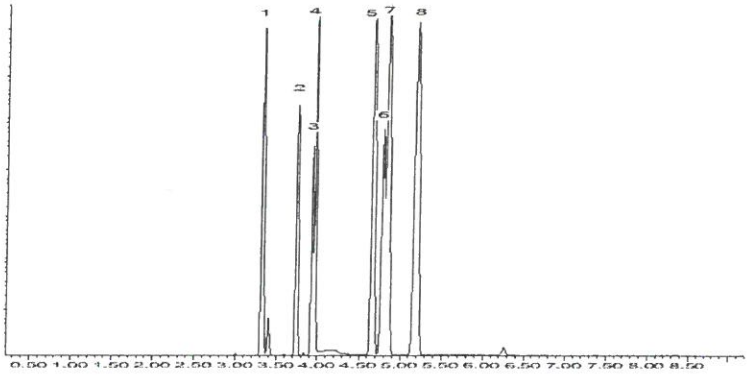
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 09-Apr-2020 **Balance:** 1127510105

Feng-Yun Lo - QC Analyst

Date Passed: 24-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM569723_00004

VM569723-00004 Rec: 5/16/16 (20)

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Catalog No. : 569723 **Lot No.:** A0115628

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether **CAS #** 110-75-8 (Lot MKBK2735V) **Purity** 99%	2,509.2 µg/mL	+/- 14.5887 µg/mL +/- 53.7223 µg/mL +/- 55.2841 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VM569723_00008

Rec: 9/9/19
VM569723-00008

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723 **Lot No.:** A0146250

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBS6526V)		+/- 53.5253	µg/mL	Unstressed
	Purity 99%		+/- 55.0814	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VM569723S_00006

VM569723s-00006 RCC: 9/9/20 (20)

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723.sec **Lot No.:** A0115500

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,501.5 µg/mL	+/- 14.5439	µg/mL	Gravimetric
	CAS # 110-75-8.SEC (Lot BQZ2K-QD)		+/- 53.5574	µg/mL	Unstressed
	Purity 99%		+/- 55.1144	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VM569723S_00008

Rec: 9/9/19
VM569723s-00008

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723.SEC **Lot No.:** A0143264

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,502.8 µg/mL	+/- 14.6878	µg/mL	Gravimetric
	CAS # 110-75-8.SEC (Lot BQZ2K-QD)		+/- 53.6224	µg/mL	Unstressed
	Purity 99%		+/- 55.1792	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VM569723S_00009

VM569723S-00009

Rec: 2-21-20

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723.SEC **Lot No.:** A0153415

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,503.3 µg/mL	+/- 14.6910	µg/mL	Gravimetric
	CAS # 110-75-8.SEC (Lot BQZ2K-QD)		+/- 53.6339	µg/mL	Unstressed
	Purity 99%		+/- 55.1910	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Reagent

VM569724_00016

VM569724_ 05016 Rcd: 7/13/18

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724 **Lot No.:** A0137562

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2018 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	5,020.0 µg/mL	+/- 29.4602	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBD7333V)		+/- 302.9053	µg/mL	Unstressed
	Purity 99%		+/- 303.6243	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VM569724_00024

Rcd 4-20-20 VM569724_00024

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724 **Lot No.:** A0156559

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate		5,040.0 µg/mL	+/- 29.5103	µg/mL	Gravimetric
	CAS # 108-05-4	(Lot 192709KJ)		+/- 304.1056	µg/mL	Unstressed
	Purity 99%			+/- 304.8275	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
08 April 2020
Expiration date extended from July 31, 2020 to July 31, 2021.

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VM569724S_00019

Rcld: 7/13/18

VM5697245_00019

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Catalog No. : 569724.SEC **Lot No.:** A0137486

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2018 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	5,035.0 µg/mL	+/- 29.5482	µg/mL	Gravimetric
	CAS # 108-05-4.SEC (Lot F3Z5C)		+/- 303.8104	µg/mL	Unstressed
	Purity 99%		+/- 304.5316	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VM569724S_00029

Rec'd: 4/20/19 VM5697245_00029

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724.SEC **Lot No.:** A0158728

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	5,034.0 µg/mL	+/- 29.5423	µg/mL	Gravimetric
	CAS # 108-05-4.SEC (Lot 190320CGKJ)		+/- 303.7501	µg/mL	Unstressed
	Purity 99%		+/- 304.4711	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:
08 April 2020
Expiration date extended from September 30, 2020 to September 30, 2021.

Tech Tips:
Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Reagent

VM569727_00002

VM569727_00002 Rec: 11/29/16 (10)

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569727 **Lot No.:** A0118487

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000 µg/ml, Water, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2019 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone	25,000.4 µg/mL	+/- 146.3826 µg/mL	Gravimetric
	CAS # 108-94-1 (Lot MKBN5282V)		+/- 1,508.4819 µg/mL	Unstressed
	Purity 99%		+/- 1,512.0629 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569727_00004

Rec: 9/9/19
VMS69727_00004
(10)

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Catalog No. : 569727 **Lot No.:** A0145193

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone	25,008.5 µg/mL	+/- 146.4305 µg/mL	Gravimetric
	CAS # 108-94-1 (Lot MKCD4357)		+/- 1,508.9751 µg/mL	Unstressed
	Purity 99%		+/- 1,512.5572 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569727_00005

Rec: 12/2/20
VM569727_00005

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Catalog No. : 569727 **Lot No.:** A0158129

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2023 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone	25,040.0 µg/mL	+/- 146.6147 µg/mL	Gravimetric
	CAS # 108-94-1 (Lot MKBZ8847V)		+/- 1,510.8738 µg/mL	Unstressed
	Purity 99%		+/- 1,514.4604 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569727S_00003

Rec: 8/23/18

VM569727S-00003

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Catalog No. : 569727.SEC **Lot No.:** A0136499

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2021 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone	25,006.0 µg/mL	+/- 146.4156 µg/mL	Gravimetric
	CAS # 108-94-1.SEC (Lot U3QCA-PN)		+/- 1,508.8223 µg/mL	Unstressed
	Purity 99%		+/- 1,512.4040 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM569727S_00004

Rec: 9/9/19 (14)
VM569727S - 0000Y

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Catalog No. : 569727.SEC **Lot No.:** A0144966

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2022 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Cyclohexanone	25,036.0 µg/mL	+/- 146.5913	µg/mL	Gravimetric
	CAS # 108-94-1.SEC (Lot ZEHPG)		+/- 1,510.6324	µg/mL	Unstressed
	Purity 99%		+/- 1,514.2184	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

vm570806_00003

VM570806-00003 Rec: 12/1/17

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570806 **Lot No.:** A0126447

Description : 8260 List 2 / Std #4 Pentachloroethane

8260 List 2 / Std #4 Pentachloroethane 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachloroethane	2,519.0 µg/mL	+/- 14.7829 µg/mL	Gravimetric
	CAS # 76-01-7 (Lot 160830B-BL2)		+/- 141.2521 µg/mL	Unstressed
	Purity 99%		+/- 144.5566 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570806_00005

Rec: 6/19/19
VMS70806_00005

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Catalog No. : 570806 **Lot No.:** A0140938

Description : 8260 List 2 / Std #4 Pentachloroethane

8260 List 2 / Std #4 Pentachloroethane 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachloroethane	2,501.0 µg/mL	+/- 14.6773	µg/mL	Gravimetric
	CAS # 76-01-7 (Lot L7GVM)		+/- 140.2428	µg/mL	Unstressed
	Purity 99%		+/- 143.5236	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570806S_00005

VM570806s-00005 Rec: 12/4/18

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Catalog No. : 570806.sec **Lot No.:** A0126373

Description : 8260 List 2 / Std #4 Pentachloroethane

8260 List 2 / Std #4 Pentachloroethane 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachloroethane	2,513.5 µg/mL	+/- 14.7506	µg/mL	Gravimetric
	CAS # 76-01-7.SEC (Lot 5854000)		+/- 140.9437	µg/mL	Unstressed
	Purity 99%		+/- 144.2410	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570806S_00006

Rcld 10-13-20 VH5708765_00006

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Catalog No. : 570806.SEC **Lot No.:** A0146080

Description : 8260 List 2 / Std #4 Pentachloroethane

8260 List 2 / Std #4 Pentachloroethane 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2024 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachloroethane	2,502.7 µg/mL	+/- 14.6871	µg/mL	Gravimetric
	CAS # 76-01-7.SEC (Lot 5854000)		+/- 140.3362	µg/mL	Unstressed
	Purity 99%		+/- 143.6193	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807_00003

VM570807_00003
Rec: 12/1/17

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570807 **Lot No.:** A0125050

Description : 8260 List 2 / Std #5 Methylnaphthalenes

8260 List 2 / Std #5 Methylnaphthalenes 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Methylnaphthalene	2,511.8 µg/mL	+/- 14.7406	µg/mL	Gravimetric
	CAS # 91-57-6 (Lot STBF0201V)		+/- 140.8484	µg/mL	Unstressed
	Purity 95%		+/- 144.1434	µg/mL	Stressed
2	1-Methylnaphthalene	2,514.2 µg/mL	+/- 14.7547	µg/mL	Gravimetric
	CAS # 90-12-0 (Lot 523400-9)		+/- 140.9824	µg/mL	Unstressed
	Purity 98%		+/- 144.2806	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807_00005

Rev: 4/19/14

VM570807_00005

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570807 **Lot No.:** A0126478

Description : 8260 List 2 / Std #5 Methylnaphthalenes

8260 List 2 / Std #5 Methylnaphthalenes 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBF0201V) **Purity** 95%	2,501.4 µg/mL	+/- 14.6793 µg/mL +/- 140.2624 µg/mL +/- 143.5437 µg/mL	Gravimetric Unstressed Stressed
2	1-Methylnaphthalene **CAS #** 90-12-0 (Lot 523400-9) **Purity** 98%	2,505.9 µg/mL	+/- 14.7058 µg/mL +/- 140.5153 µg/mL +/- 143.8025 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807S_00005

VMS70807S-00005

Rec: 12/4/18

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570807.sec **Lot No.:** A0126553

Description : 8260 List 2 / Std #5 Methylnaphthalenes

8260 List 2 / Std #5 Methylnaphthalenes 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Methylnaphthalene	2,451.0 µg/mL	+/- 14.3837	µg/mL	Gravimetric
	CAS # 91-57-6.SEC (Lot 76023-1)		+/- 137.4379	µg/mL	Unstressed
	Purity 98%		+/- 140.6532	µg/mL	Stressed
2	1-Methylnaphthalene	2,507.5 µg/mL	+/- 14.7151	µg/mL	Gravimetric
	CAS # 90-12-0.SEC (Lot UATSA)		+/- 140.6045	µg/mL	Unstressed
	Purity 97%		+/- 143.8938	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807S_00006

Rcld 10-13-20 VM5708075_ 00006

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Catalog No. : 570807.SEC **Lot No.:** A0144306

Description : 8260 List 2 / Std #5 Methylnaphthalenes

8260 List 2 / Std #5 Methylnaphthalenes 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methylnaphthalene	2,505.4 µg/mL	+/- 14.7029 µg/mL	Gravimetric
	CAS # 91-57-6.SEC (Lot 76023-1)		+/- 140.4878 µg/mL	Unstressed
	Purity 98%		+/- 143.7744 µg/mL	Stressed
2	1-Methylnaphthalene	2,511.0 µg/mL	+/- 14.7360 µg/mL	Gravimetric
	CAS # 90-12-0.SEC (Lot OEE3F)		+/- 140.8035 µg/mL	Unstressed
	Purity 99%		+/- 144.0975 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM570808_00004

VM570808_00004 Rec: 1/11/18

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808 **Lot No.:** A0132816

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0 (Lot SHBG8138V) **Purity** 99%	25,038.4 µg/mL	+/- 146.6053 µg/mL +/- 1,238.7172 µg/mL +/- 1,269.5131 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 170628JLM) **Purity** 99%	2,522.0 µg/mL	+/- 14.8005 µg/mL +/- 124.7741 µg/mL +/- 127.8760 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 (Lot 1012014) **Purity** 99%	25,034.4 µg/mL	+/- 146.5819 µg/mL +/- 1,238.5193 µg/mL +/- 1,269.3102 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot SHBF8066V) **Purity** 99%	2,512.8 µg/mL	+/- 14.7465 µg/mL +/- 124.3190 µg/mL +/- 127.4095 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 (Lot SHBH5137V) **Purity** 98%	62,503.6 µg/mL	+/- 365.9535 µg/mL +/- 3,092.2204 µg/mL +/- 3,169.0963 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 (Lot BCBL0537V) **Purity** 98%	5,015.6 µg/mL	+/- 29.3677 µg/mL +/- 248.1373 µg/mL +/- 254.3062 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 (Lot 05107LK) **Purity** 98%	2,502.5 µg/mL	+/- 14.6862 µg/mL +/- 123.8108 µg/mL +/- 126.8886 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene **CAS #** 526-73-8 **Purity** 97%	(Lot 877605-14)	2,505.7 µg/mL	+/- 14.7049 +/- 123.9679 +/- 127.0497	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride **CAS #** 100-44-7 **Purity** 99%	(Lot SHBB7346V)	2,507.2 µg/mL	+/- 14.7137 +/- 124.0419 +/- 127.1255	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene **CAS #** 108-70-3 **Purity** 99%	(Lot 11319AS)	2,502.4 µg/mL	+/- 14.6855 +/- 123.8044 +/- 126.8822	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

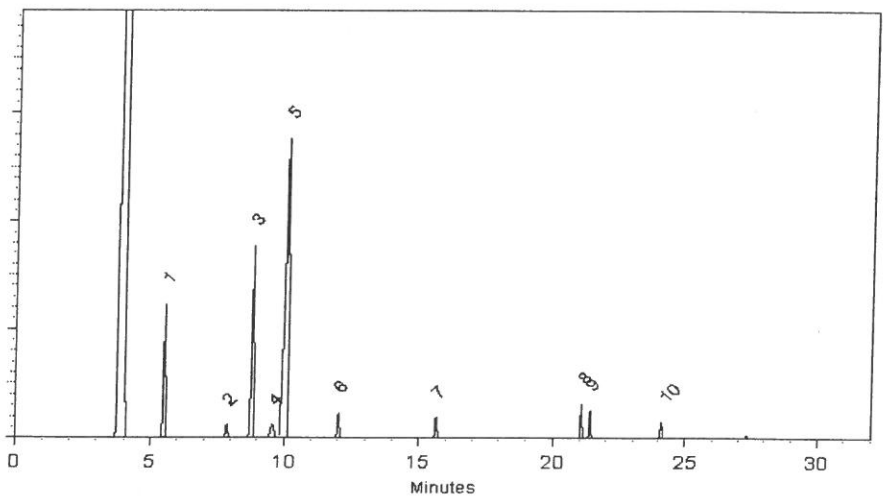
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust - Mix Technician

Date Mixed: 29-Nov-2017 **Balance:** B707717271

Amanda Miller - Operations Tech-ARM QC

Date Passed: 01-Dec-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

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Rec: 6-11-20
VM570808_00006

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808 **Lot No.:** A0154734

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0 (Lot SHBH7211) **Purity** 99%	25,135.0 µg/mL	+/- 147.1710 µg/mL +/- 1,243.4963 µg/mL +/- 1,274.4109 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 (Lot 190814JLM) **Purity** 99%	2,523.5 µg/mL	+/- 14.8093 µg/mL +/- 124.8483 µg/mL +/- 127.9520 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 (Lot 1012019) **Purity** 99%	25,164.0 µg/mL	+/- 147.3408 µg/mL +/- 1,244.9310 µg/mL +/- 1,275.8813 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (isooctane) **CAS #** 540-84-1 (Lot SHBD2922V) **Purity** 99%	2,512.0 µg/mL	+/- 14.7418 µg/mL +/- 124.2794 µg/mL +/- 127.3689 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3 (Lot SHBK4786) **Purity** 99%	63,024.5 µg/mL	+/- 369.0033 µg/mL +/- 3,117.9899 µg/mL +/- 3,195.5065 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9 (Lot BCBL0537V) **Purity** 98%	5,009.8 µg/mL	+/- 29.3332 µg/mL +/- 247.8464 µg/mL +/- 254.0081 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5 (Lot BCBS3368V) **Purity** 98%	2,516.6 µg/mL	+/- 14.7691 µg/mL +/- 124.5090 µg/mL +/- 127.6042 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene **CAS #** 526-73-8 **Purity** 98%	(Lot 877605-12)	2,510.3 µg/mL	+/- 14.7317 +/- 124.1938 +/- 127.2812	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride **CAS #** 100-44-7 **Purity** 99%	(Lot SHBH2102V)	2,516.0 µg/mL	+/- 14.7653 +/- 124.4773 +/- 127.5717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene **CAS #** 108-70-3 **Purity** 99%	(Lot 11319AS)	2,523.0 µg/mL	+/- 14.8064 +/- 124.8236 +/- 127.9267	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

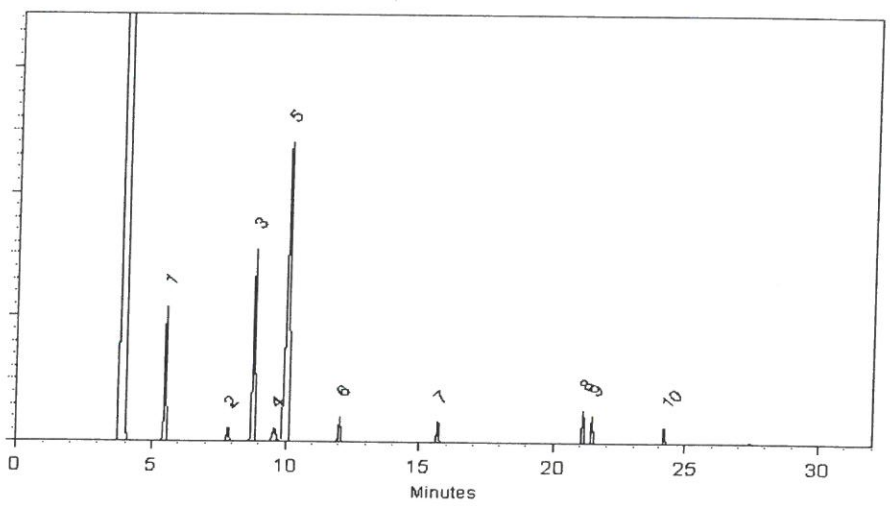
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 05-Nov-2019 **Balance:** B707717271

Fang-Yun Le - QC Analyst

Date Passed: 07-Nov-2019

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808.SEC **Lot No.:** A0154206

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) **CAS #** 67-63-0.SEC (Lot NWVYK) **Purity** 99%	25,035.5 µg/mL	+/- 146.5884 µg/mL +/- 1,238.5738 µg/mL +/- 1,269.3660 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 * (Lot 190814JLM) **Purity** 99%	2,506.0 µg/mL	+/- 14.7066 µg/mL +/- 123.9825 µg/mL +/- 127.0647 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 * (Lot 1012019) **Purity** 99%	25,025.5 µg/mL	+/- 146.5298 µg/mL +/- 1,238.0790 µg/mL +/- 1,268.8590 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (Isooctane) **CAS #** 540-84-1.SEC (Lot 4597900) **Purity** 99%	2,525.0 µg/mL	+/- 14.8181 µg/mL +/- 124.9226 µg/mL +/- 128.0281 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3.SEC (Lot ELBOC) **Purity** 99%	62,526.5 µg/mL	+/- 366.0875 µg/mL +/- 3,093.3525 µg/mL +/- 3,170.2566 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9.SEC (Lot Y4YWD) **Purity** 98%	5,006.8 µg/mL	+/- 29.3160 µg/mL +/- 247.7009 µg/mL +/- 253.8590 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5.SEC (Lot 8171700) **Purity** 99%	2,501.0 µg/mL	+/- 14.6773 µg/mL +/- 123.7352 µg/mL +/- 126.8112 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene		2,502.6	µg/mL	+/-	14.6867	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 8658900)			+/-	123.8143	µg/mL	Unstressed
	Purity 97%				+/-	126.8923	µg/mL	Stressed
9	Benzyl chloride		2,506.0	µg/mL	+/-	14.7066	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	123.9825	µg/mL	Unstressed
	Purity 99%				+/-	127.0647	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,518.5	µg/mL	+/-	14.7800	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	124.6010	µg/mL	Unstressed
	Purity 99%				+/-	127.6985	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

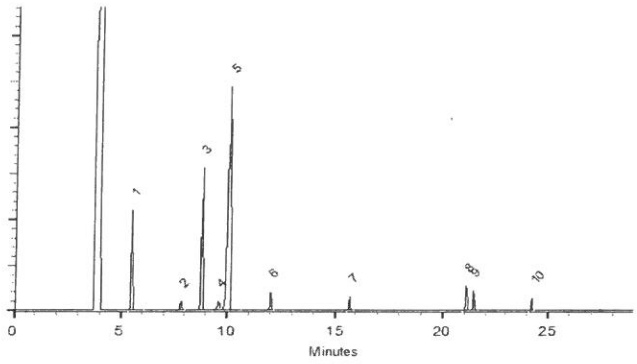
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 22-Oct-2019 **Balance:** 1128342314

Justine Albertson - Operations Tech-ARM QC

Date Passed: 25-Oct-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 570809 **Lot No.:** A0131668

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethyl acetate **CAS #** 141-78-6 (Lot SHBG6401V) **Purity** 99%	5,019.0 µg/mL	+/- 29.3873 µg/mL +/- 302.8385 µg/mL +/- 303.5574 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 (Lot 10129902) **Purity** 99%	2,521.0 µg/mL	+/- 14.7946 µg/mL +/- 152.1164 µg/mL +/- 152.4775 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6 (Lot MKBV3172V) **Purity** 99%	5,027.5 µg/mL	+/- 29.4371 µg/mL +/- 303.3514 µg/mL +/- 304.0715 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 (Lot SHBH0056V) **Purity** 99%	2,512.0 µg/mL	+/- 14.7418 µg/mL +/- 151.5733 µg/mL +/- 151.9331 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM570809_00007

Rec: 4/20/20
VM570809_00007

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809 **Lot No.:** A0156071

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethyl acetate **CAS #** 141-78-6 (Lot SHBL1336) **Purity** 99%	5,015.6 µg/mL	+/- 29.3674 µg/mL +/- 302.6333 µg/mL +/- 303.3517 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 (Lot 10129902) **Purity** 99%	2,508.8 µg/mL	+/- 14.7230 µg/mL +/- 151.3803 µg/mL +/- 151.7396 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6 (Lot MKCG6589) **Purity** 99%	5,015.2 µg/mL	+/- 29.3651 µg/mL +/- 302.6092 µg/mL +/- 303.3275 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 (Lot SHBK5137) **Purity** 99%	2,512.0 µg/mL	+/- 14.7418 µg/mL +/- 151.5733 µg/mL +/- 151.9331 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM570809S_00008

Rec: 5/4/20
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809.SEC **Lot No.:** A0153337

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethyl acetate **CAS #** 141-78-6.SEC (Lot C386A-GG) **Purity** 99%	5,020.0 µg/mL	+/- 29.3932 µg/mL +/- 302.8988 µg/mL +/- 303.6179 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5.SEC (Lot YIFAM-TG) **Purity** 99%	2,514.0 µg/mL	+/- 14.7536 µg/mL +/- 151.6940 µg/mL +/- 152.0541 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6.SEC (Lot G01X021) **Purity** 99%	5,042.5 µg/mL	+/- 29.5249 µg/mL +/- 304.2564 µg/mL +/- 304.9787 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4.SEC (Lot V2L2G-GT) **Purity** 99%	2,502.5 µg/mL	+/- 14.6861 µg/mL +/- 151.0001 µg/mL +/- 151.3585 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM571992_00001

VM571992_00001 Rec'd 1-25-17

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 **Lot No.:** A0123711

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBG1462V) **Purity** 99%	2,501.3 µg/mL	+/- 14.5425 µg/mL +/- 150.9115 µg/mL +/- 151.2698 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,505.1 µg/mL	+/- 14.5650 µg/mL +/- 151.1453 µg/mL +/- 151.5041 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,511.5 µg/mL	+/- 14.6021 µg/mL +/- 151.5299 µg/mL +/- 151.8897 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBF0688V) **Purity** 99%	25,001.8 µg/mL	+/- 145.3547 µg/mL +/- 1,508.4656 µg/mL +/- 1,512.0470 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.5 µg/mL	+/- 29.0733 µg/mL +/- 301.7023 µg/mL +/- 302.4186 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBF2149V) **Purity** 99%	2,502.9 µg/mL	+/- 14.5519 µg/mL +/- 151.0095 µg/mL +/- 151.3681 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot SHBF8133V) **Purity** 99%	2,517.1 µg/mL	+/- 14.6348 µg/mL +/- 151.8693 µg/mL +/- 152.2299 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,502.1 µg/mL	+/- 14.5476	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBH2578V)		+/- 150.9643	µg/mL	Unstressed
	Purity 99%			+/- 151.3227	µg/mL	Stressed
9	Carbon disulfide		2,501.4 µg/mL	+/- 14.5432	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot S20A856)		+/- 150.9190	µg/mL	Unstressed
	Purity 99%			+/- 151.2773	µg/mL	Stressed
10	Acrylonitrile		25,001.3 µg/mL	+/- 145.3518	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot T07B2030)		+/- 1,508.4355	µg/mL	Unstressed
	Purity 99%			+/- 1,512.0167	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,505.3 µg/mL	+/- 14.5657	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBG2655V)		+/- 151.1528	µg/mL	Unstressed
	Purity 99%			+/- 151.5117	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,500.5 µg/mL	+/- 14.5379	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBV2831V)		+/- 150.8644	µg/mL	Unstressed
	Purity 98%			+/- 151.2226	µg/mL	Stressed
13	n-Hexane (C6)		2,503.8 µg/mL	+/- 14.5570	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBG2674V)		+/- 151.0623	µg/mL	Unstressed
	Purity 99%			+/- 151.4210	µg/mL	Stressed
14	1,1-Dichloroethane		2,500.4 µg/mL	+/- 14.5374	µg/mL	Gravimetric
	CAS # 75-34-3	(Lot 00008621)		+/- 150.8587	µg/mL	Unstressed
	Purity 99%			+/- 151.2169	µg/mL	Stressed
15	2,2-Dichloropropane		2,501.0 µg/mL	+/- 14.5408	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBR0622V)		+/- 150.8940	µg/mL	Unstressed
	Purity 98%			+/- 151.2522	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,503.8 µg/mL	+/- 14.5570	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot 09431AEV)		+/- 151.0623	µg/mL	Unstressed
	Purity 99%			+/- 151.4210	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,512.5 µg/mL	+/- 363.4341	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBG8201V)		+/- 3,771.6543	µg/mL	Unstressed
	Purity 99%			+/- 3,780.6088	µg/mL	Stressed
18	chloroform		2,501.9 µg/mL	+/- 14.5461	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot MKBV2089V)		+/- 150.9492	µg/mL	Unstressed
	Purity 99%			+/- 151.3076	µg/mL	Stressed
19	Bromochloromethane		2,503.3 µg/mL	+/- 14.5541	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)		+/- 151.0322	µg/mL	Unstressed
	Purity 99%			+/- 151.3907	µg/mL	Stressed
20	Tetrahydrofuran		5,001.3 µg/mL	+/- 29.0777	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBG2910V)		+/- 301.7476	µg/mL	Unstressed
	Purity 99%			+/- 302.4640	µg/mL	Stressed
21	1,1,1-trichloroethane		2,500.3 µg/mL	+/- 14.5367	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B15W12061)		+/- 150.8512	µg/mL	Unstressed
	Purity 99%			+/- 151.2093	µg/mL	Stressed
22	Cyclohexane		2,502.0 µg/mL	+/- 14.5468	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKBX4768V)		+/- 150.9567	µg/mL	Unstressed
	Purity 99%			+/- 151.3151	µg/mL	Stressed
23	1,1-Dichloropropene		2,500.5 µg/mL	+/- 14.5381	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 160727JLM)		+/- 150.8662	µg/mL	Unstressed
	Purity 99%			+/- 151.2244	µg/mL	Stressed

24	carbon tetrachloride **CAS #** 56-23-5 **Purity** 99%	(Lot SHBG1763V)	2,503.3 µg/mL	+/- 14.5541 +/- 151.0322 +/- 151.3907	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBG6171V)	2,505.5 µg/mL	+/- 14.5672 +/- 151.1679 +/- 151.5268	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBF9313V)	2,504.8 µg/mL	+/- 14.5628 +/- 151.1227 +/- 151.4815	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBH2056V)	2,506.9 µg/mL	+/- 14.5752 +/- 151.2509 +/- 151.6100	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBH1955V)	2,502.4 µg/mL	+/- 14.5490 +/- 150.9794 +/- 151.3378	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2 **Purity** 98%	(Lot SHBG0634V)	2,500.3 µg/mL	+/- 14.5372 +/- 150.8570 +/- 151.2152	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot 01113D0V)	2,503.0 µg/mL	+/- 14.5527 +/- 151.0171 +/- 151.3756	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBH2584V)	50,011.4 µg/mL	+/- 290.7552 +/- 3,017.4064 +/- 3,024.5702	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 98%	(Lot 10183283)	2,501.9 µg/mL	+/- 14.5465 +/- 150.9531 +/- 151.3115	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 22622)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBH1932V)	2,504.3 µg/mL	+/- 14.5599 +/- 151.0925 +/- 151.4512	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot SHBD9190V)	2,506.9 µg/mL	+/- 14.5752 +/- 151.2509 +/- 151.6100	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 99%	(Lot C584177)	2,503.6 µg/mL	+/- 14.5563 +/- 151.0548 +/- 151.4134	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,503.5 µg/mL	+/- 14.5556 +/- 151.0472 +/- 151.4059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBD9374V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane		2,500.2 µg/mL	+/-	14.5365	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKBW3597V)		+/-	150.8497	µg/mL	Unstressed
	Purity 98%			+/-	151.2078	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,501.3 µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)		+/-	150.9115	µg/mL	Unstressed
	Purity 99%			+/-	151.2698	µg/mL	Stressed
42	Chlorobenzene		2,500.1 µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBF0505V)		+/-	150.8436	µg/mL	Unstressed
	Purity 99%			+/-	151.2017	µg/mL	Stressed
43	m-Xylene		1,250.3 µg/mL	+/-	7.2691	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBG4347V)		+/-	75.4331	µg/mL	Unstressed
	Purity 99%			+/-	75.6122	µg/mL	Stressed
44	p-Xylene		1,251.3 µg/mL	+/-	7.2749	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBG3928V)		+/-	75.4935	µg/mL	Unstressed
	Purity 99%			+/-	75.6727	µg/mL	Stressed
45	Ethylbenzene		2,503.3 µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBG5920V)		+/-	151.0322	µg/mL	Unstressed
	Purity 99%			+/-	151.3907	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,500.3 µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)		+/-	150.8512	µg/mL	Unstressed
	Purity 99%			+/-	151.2093	µg/mL	Stressed
47	o-Xylene		2,504.9 µg/mL	+/-	14.5636	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBH3432V)		+/-	151.1302	µg/mL	Unstressed
	Purity 99%			+/-	151.4890	µg/mL	Stressed
48	Styrene		2,506.3 µg/mL	+/-	14.5716	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKBS7097V)		+/-	151.2132	µg/mL	Unstressed
	Purity 99%			+/-	151.5722	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,501.6 µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10185056)		+/-	150.9341	µg/mL	Unstressed
	Purity 99%			+/-	151.2925	µg/mL	Stressed
50	bromoform		2,502.9 µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBD8459V)		+/-	151.0095	µg/mL	Unstressed
	Purity 99%			+/-	151.3681	µg/mL	Stressed
51	bromodichloromethane		2,506.8 µg/mL	+/-	14.5750	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKBW5506V)		+/-	151.2490	µg/mL	Unstressed
	Purity 97%			+/-	151.6081	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,501.3 µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)		+/-	150.9115	µg/mL	Unstressed
	Purity 99%			+/-	151.2698	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,508.5 µg/mL	+/-	14.5846	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)		+/-	151.3489	µg/mL	Unstressed
	Purity 99%			+/-	151.7082	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,500.8 µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBP6041V)		+/-	150.8817	µg/mL	Unstressed
	Purity 95%			+/-	151.2399	µg/mL	Stressed
55	n-Propylbenzene		2,501.9 µg/mL	+/-	14.5461	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBJ0332V)		+/-	150.9492	µg/mL	Unstressed
	Purity 99%			+/-	151.3076	µg/mL	Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot MKBD4032V)	2,507.0 µg/mL	+/- 14.5759 +/- 151.2584 +/- 151.6175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBQ2165V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,500.6 µg/mL	+/- 14.5388 +/- 150.8738 +/- 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot S52237V)	2,507.0 µg/mL	+/- 14.5759 +/- 151.2584 +/- 151.6175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ6229V)	2,500.8 µg/mL	+/- 14.5401 +/- 150.8866 +/- 151.2448	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	2,505.4 µg/mL	+/- 14.5665 +/- 151.1604 +/- 151.5193	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBS2604V)	2,503.8 µg/mL	+/- 14.5570 +/- 151.0623 +/- 151.4210	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBM5751V)	2,503.9 µg/mL	+/- 14.5577 +/- 151.0699 +/- 151.4285	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS1350V)	2,509.9 µg/mL	+/- 14.5926 +/- 151.4319 +/- 151.7914	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09418JJV)	2,503.3 µg/mL	+/- 14.5541 +/- 151.0322 +/- 151.3907	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBD7331V)	2,503.8 µg/mL	+/- 14.5570 +/- 151.0623 +/- 151.4210	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,505.0 µg/mL	+/- 14.5643 +/- 151.1378 +/- 151.4966	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBC5541V)	2,505.3 µg/mL	+/- 14.5657 +/- 151.1528 +/- 151.5117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 98%	(Lot J31X013)	2,506.5 µg/mL	+/- 14.5728 +/- 151.2266 +/- 151.5856	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBW2603V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,511.1	µg/mL	+/-	14.5999	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot 12912PFV)			+/-	151.5073	µg/mL	Unstressed
	Purity 99%				+/-	151.8670	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

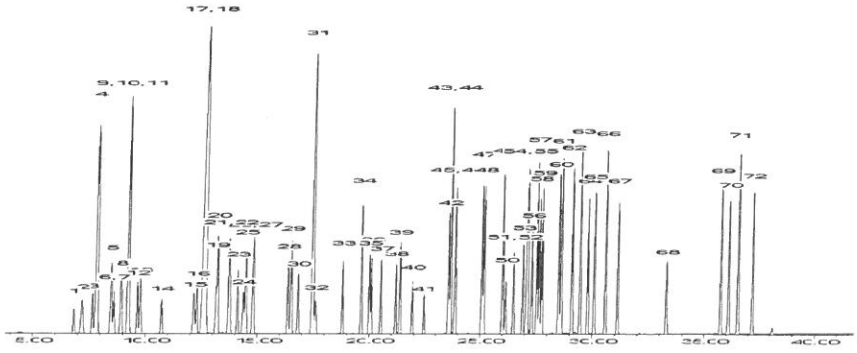
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician **Date Mixed:** 22-Dec-2016 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 04-Jan-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

VM571992_00003

Rec: 5/31/19
VM571992_00003

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Reference Material Producer
Certificate #3222.01

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ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 **Lot No.:** A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBJ5713) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,501.6 µg/mL	+/- 14.5447 µg/mL +/- 150.9341 µg/mL +/- 151.2925 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,501.9 µg/mL	+/- 14.5461 µg/mL +/- 150.9492 µg/mL +/- 151.3076 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBJ9404) **Purity** 99%	25,008.1 µg/mL	+/- 145.3918 µg/mL +/- 1,508.8503 µg/mL +/- 1,512.4325 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.8 µg/mL	+/- 29.0748 µg/mL +/- 301.7174 µg/mL +/- 302.4337 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBH4362V) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot WXBB7852V) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 150.9567 µg/mL +/- 151.3151 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	(Lot SHBK5095)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0 **Purity** 99%	(Lot U22D706)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1 **Purity** 99%	(Lot R15D047)	25,010.4	µg/mL	+/- 145.4049 +/- 1,508.9860 +/- 1,512.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4 **Purity** 99%	(Lot SHBH9526)	2,500.3	µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2 **Purity** 99%	(Lot MKBX5945V)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3 **Purity** 99%	(Lot SHBH8106)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3 **Purity** 99%	(Lot 462600)	2,500.4	µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7 **Purity** 99%	(Lot BCBT5124)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5 **Purity** 99%	(Lot MKBH9850V)	2,500.3	µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1 **Purity** 99%	(Lot SHBK0551)	62,500.9	µg/mL	+/- 363.3665 +/- 3,770.9529 +/- 3,779.9058	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform **CAS #** 67-66-3 **Purity** 99%	(Lot SHBJ9076)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5 **Purity** 98%	(Lot 00008541)	2,500.6	µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9 **Purity** 99%	(Lot SHBJ6179)	5,000.6	µg/mL	+/- 29.0741 +/- 301.7099 +/- 302.4262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane **CAS #** 71-55-6 **Purity** 99%	(Lot B15W12061)	2,500.8	µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7 **Purity** 99%	(Lot MKCC9660)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6 **Purity** 99%	(Lot 180531JLM)	2,500.6	µg/mL	+/- 14.5388 +/- 150.8738 +/- 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride **CAS #** 56-23-5 **Purity** 99%	(Lot SHBJ2110)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5 **Purity** 99%	(Lot SHBJ2424)	2,501.6	µg/mL	+/- +/- +/-	14.5447 150.9341 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2 **Purity** 99%	(Lot SHBJ0707)	2,501.3	µg/mL	+/- +/- +/-	14.5425 150.9115 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2 **Purity** 99%	(Lot SHBJ5344)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6 **Purity** 99%	(Lot SHBH1955V)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2 **Purity** 99%	(Lot SHBJ0457)	2,501.6	µg/mL	+/- +/- +/-	14.5447 150.9341 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5 **Purity** 99%	(Lot BCBR0882V)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1 **Purity** 99%	(Lot SHBJ7415)	50,001.1	µg/mL	+/- +/- +/-	290.6957 3,016.7880 3,023.9503	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3 **Purity** 99%	(Lot 10201030)	2,502.0	µg/mL	+/- +/- +/-	14.5468 150.9567 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5 **Purity** 99%	(Lot 25076)	2,501.4	µg/mL	+/- +/- +/-	14.5432 150.9190 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3 **Purity** 99%	(Lot SHBJ5659)	2,500.1	µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2 **Purity** 99%	(Lot 69796APV)	2,502.8	µg/mL	+/- +/- +/-	14.5512 151.0020 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6 **Purity** 98%	(Lot C797620)	2,500.6	µg/mL	+/- +/- +/-	14.5387 150.8718 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5 **Purity** 99%	(Lot FGB01)	2,500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9 **Purity** 99%	(Lot BCBG2162V)	2,500.9	µg/mL	+/- +/- +/-	14.5403 150.8889 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4 **Purity** 99%	(Lot SHBH9691)	2,501.0	µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKCC0877)	2,502.4	µg/mL	+/- +/- +/-	14.5493 150.9827 151.3411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBH4459V)	2,501.1	µg/mL	+/- +/- +/-	14.5418 150.9040 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBJ2338)	1,251.5	µg/mL	+/- +/- +/-	7.2763 75.5085 75.6878	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	1,250.1	µg/mL	+/- +/- +/-	7.2683 75.4256 75.6047	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	2,500.0	µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,500.0	µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH7231)	2,500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKCC9766)	2,500.0	µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,500.1	µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBG3138V)	2,501.0	µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane **CAS #** 75-27-4 **Purity** 99%	(Lot MKCF8470)	2,501.6	µg/mL	+/- +/- +/-	14.5447 150.9341 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,501.3	µg/mL	+/- +/- +/-	14.5425 150.9115 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene **CAS #** 110-57-6 **Purity** 94%	(Lot MKBX7788V)	2,500.0	µg/mL	+/- +/- +/-	14.5355 150.8389 151.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot WXBC3346V)	2,500.0	µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 97%	(Lot MKBH5027V)	2,499.9 µg/mL	+/- 14.5348 +/- 150.8320 +/- 151.1901	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	2,501.4 µg/mL	+/- 14.5432 +/- 150.9190 +/- 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	2,502.9 µg/mL	+/- 14.5519 +/- 151.0095 +/- 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ9215)	2,502.1 µg/mL	+/- 14.5476 +/- 150.9643 +/- 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBZ8680V)	2,502.8 µg/mL	+/- 14.5512 +/- 151.0020 +/- 151.3605	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/-	150.9869	µg/mL	Unstressed
	Purity 99%			+/-	151.3454	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

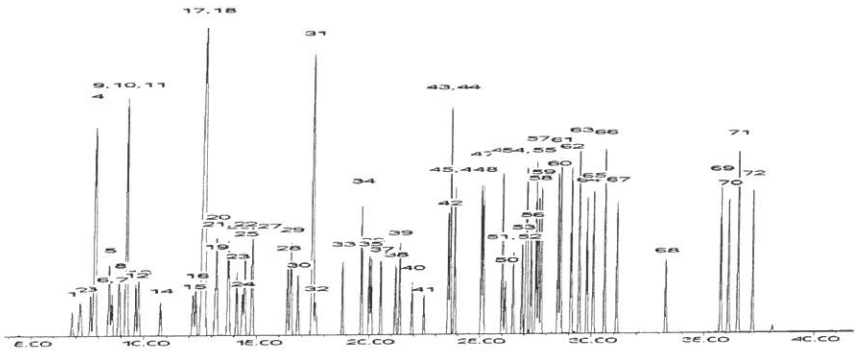
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician **Date Mixed:** 05-Dec-2018 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC **Date Passed:** 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM571992_00004

VMS71992-00004 Rec: 2-21-20

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 **Lot No.:** A0143774

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 (Lot SHBJ5713) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,501.6 µg/mL	+/- 14.5447 µg/mL +/- 150.9341 µg/mL +/- 151.2925 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,501.9 µg/mL	+/- 14.5461 µg/mL +/- 150.9492 µg/mL +/- 151.3076 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBJ9404) **Purity** 99%	25,008.1 µg/mL	+/- 145.3918 µg/mL +/- 1,508.8503 µg/mL +/- 1,512.4325 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.8 µg/mL	+/- 29.0748 µg/mL +/- 301.7174 µg/mL +/- 302.4337 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBH4362V) **Purity** 99%	2,500.6 µg/mL	+/- 14.5388 µg/mL +/- 150.8738 µg/mL +/- 151.2320 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot WXBB7852V) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 150.9567 µg/mL +/- 151.3151 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	(Lot SHBK5095)	2,500.8 µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0 **Purity** 99%	(Lot U22D706)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1 **Purity** 99%	(Lot R15D047)	25,010.4 µg/mL	+/- 145.4049 +/- 1,508.9860 +/- 1,512.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4 **Purity** 99%	(Lot SHBH9526)	2,500.3 µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2 **Purity** 99%	(Lot MKBX5945V)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3 **Purity** 99%	(Lot SHBH8106)	2,500.8 µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3 **Purity** 99%	(Lot 462600)	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7 **Purity** 99%	(Lot BCBT5124)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5 **Purity** 99%	(Lot MKBH9850V)	2,500.3 µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1 **Purity** 99%	(Lot SHBK0551)	62,500.9 µg/mL	+/- 363.3665 +/- 3,770.9529 +/- 3,779.9058	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	chloroform **CAS #** 67-66-3 **Purity** 99%	(Lot SHBJ9076)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5 **Purity** 98%	(Lot 00008541)	2,500.6 µg/mL	+/- 14.5387 +/- 150.8718 +/- 151.2300	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9 **Purity** 99%	(Lot SHBJ6179)	5,000.6 µg/mL	+/- 29.0741 +/- 301.7099 +/- 302.4262	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-trichloroethane **CAS #** 71-55-6 **Purity** 99%	(Lot B15W12061)	2,500.8 µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7 **Purity** 99%	(Lot MKCC9660)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6 **Purity** 99%	(Lot 180531JLM)	2,500.6 µg/mL	+/- 14.5388 +/- 150.8738 +/- 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	carbon tetrachloride		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBJ2110)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
25	n-Heptane (C7)		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBJ2424)			+/-	150.9341	µg/mL	Unstressed
	Purity 99%				+/-	151.2925	µg/mL	Stressed
26	1,2-Dichloroethane		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot SHBJ0707)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
27	Benzene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBJ5344)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
28	Trichloroethene		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBH1955V)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
29	Methylcyclohexane		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBJ0457)			+/-	150.9341	µg/mL	Unstressed
	Purity 99%				+/-	151.2925	µg/mL	Stressed
30	1,2-Dichloropropane		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
31	1,4-Dioxane		50,001.1	µg/mL	+/-	290.6957	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBJ7415)			+/-	3,016.7880	µg/mL	Unstressed
	Purity 99%				+/-	3,023.9503	µg/mL	Stressed
32	Dibromomethane		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10201030)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot 25076)			+/-	150.9190	µg/mL	Unstressed
	Purity 99%				+/-	151.2773	µg/mL	Stressed
34	Toluene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBJ5659)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
35	Ethyl methacrylate		2,502.8	µg/mL	+/-	14.5512	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot 69796APV)			+/-	151.0020	µg/mL	Unstressed
	Purity 99%				+/-	151.3605	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,500.6	µg/mL	+/-	14.5387	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot C797620)			+/-	150.8718	µg/mL	Unstressed
	Purity 98%				+/-	151.2300	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
38	1,3-Dichloropropane		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBG2162V)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
39	Tetrachloroethene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBH9691)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed

40	dibromochloromethane **CAS #** 124-48-1 **Purity** 98%	(Lot MKCC0877)	2,502.4 µg/mL	+/- 14.5493 +/- 150.9827 +/- 151.3411	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBH3877V)	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBH4459V)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBJ2338)	1,251.5 µg/mL	+/- 7.2763 +/- 75.5085 +/- 75.6878	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	1,250.1 µg/mL	+/- 7.2683 +/- 75.4256 +/- 75.6047	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	2,500.0 µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	2,500.0 µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH7231)	2,500.8 µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKCC9766)	2,500.0 µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBG3138V)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane **CAS #** 75-27-4 **Purity** 99%	(Lot MKCF8470)	2,501.6 µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene **CAS #** 110-57-6 **Purity** 94%	(Lot MKBX7788V)	2,500.0 µg/mL	+/- 14.5355 +/- 150.8389 +/- 151.1971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot WXBC3346V)	2,500.0 µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene		2,500.1	µg/mL	+/- 14.5359	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/- 150.8436	µg/mL	Unstressed
	Purity 99%				+/- 151.2017	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,500.5	µg/mL	+/- 14.5381	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCBS7648V)			+/- 150.8662	µg/mL	Unstressed
	Purity 99%				+/- 151.2244	µg/mL	Stressed
58	2-Chlorotoluene		2,500.1	µg/mL	+/- 14.5359	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKBW5554V)			+/- 150.8436	µg/mL	Unstressed
	Purity 99%				+/- 151.2017	µg/mL	Stressed
59	4-Chlorotoluene		2,500.9	µg/mL	+/- 14.5403	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKBL7753V)			+/- 150.8889	µg/mL	Unstressed
	Purity 99%				+/- 151.2471	µg/mL	Stressed
60	tert-Butylbenzene		2,500.1	µg/mL	+/- 14.5359	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBD6954V)			+/- 150.8436	µg/mL	Unstressed
	Purity 99%				+/- 151.2017	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,499.9	µg/mL	+/- 14.5348	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot MKBH5027V)			+/- 150.8320	µg/mL	Unstressed
	Purity 97%				+/- 151.1901	µg/mL	Stressed
62	sec-Butylbenzene		2,501.1	µg/mL	+/- 14.5418	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKBR9260V)			+/- 150.9040	µg/mL	Unstressed
	Purity 99%				+/- 151.2622	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene)		2,501.1	µg/mL	+/- 14.5418	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKBV3556V)			+/- 150.9040	µg/mL	Unstressed
	Purity 99%				+/- 151.2622	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,501.4	µg/mL	+/- 14.5432	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBQ7100V)			+/- 150.9190	µg/mL	Unstressed
	Purity 99%				+/- 151.2773	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,501.5	µg/mL	+/- 14.5439	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/- 150.9266	µg/mL	Unstressed
	Purity 99%				+/- 151.2849	µg/mL	Stressed
66	n-Butylbenzene		2,501.0	µg/mL	+/- 14.5410	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/- 150.8964	µg/mL	Unstressed
	Purity 99%				+/- 151.2547	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,502.9	µg/mL	+/- 14.5519	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBG3111V)			+/- 151.0095	µg/mL	Unstressed
	Purity 99%				+/- 151.3681	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,502.0	µg/mL	+/- 14.5468	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/- 150.9567	µg/mL	Unstressed
	Purity 99%				+/- 151.3151	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,502.1	µg/mL	+/- 14.5476	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/- 150.9643	µg/mL	Unstressed
	Purity 99%				+/- 151.3227	µg/mL	Stressed
70	Hexachlorobutadiene		2,501.5	µg/mL	+/- 14.5439	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot J31X013)			+/- 150.9266	µg/mL	Unstressed
	Purity 99%				+/- 151.2849	µg/mL	Stressed
71	Naphthalene		2,502.8	µg/mL	+/- 14.5512	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/- 151.0020	µg/mL	Unstressed
	Purity 99%				+/- 151.3605	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,502.5 µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/-	150.9869	µg/mL	Unstressed
	Purity 99%			+/-	151.3454	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

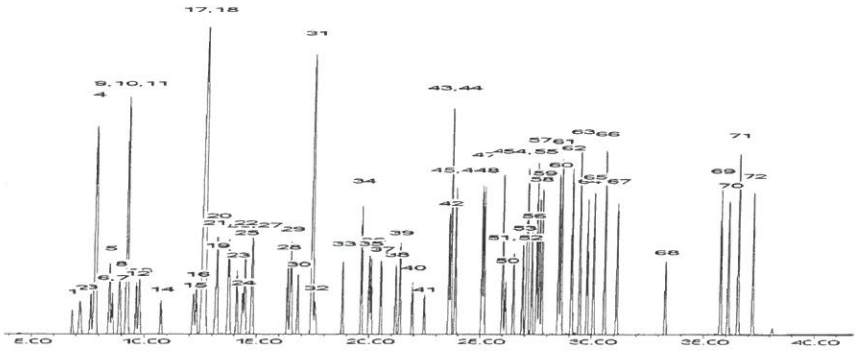
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon - Mix Technician **Date Mixed:** 05-Dec-2018 **Balance:** B251644995

Diane Shaffer - Operations Tech-ARM QC **Date Passed:** 21-Dec-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

VM571992S_00002

Rec: 5/24/17

VMS71992S-00002

(10)

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992.sec **Lot No.:** A0123775

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 98%	2,501.2 µg/mL	+/- 14.5422 +/- 150.9088 +/- 151.2671	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 2767000) **Purity** 99%	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,003.1 µg/mL	+/- 145.3626 +/- 1,508.5475 +/- 1,512.1291	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot YDGVD) **Purity** 99%	5,000.4 µg/mL	+/- 29.0726 +/- 301.6948 +/- 302.4111	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot VEBOC) **Purity** 98%	2,500.1 µg/mL	+/- 14.5358 +/- 150.8423 +/- 151.2004	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC (Lot FGM02) **Purity** 99%		2,500.8 µg/mL	+/- 14.5396 +/- 150.8813 +/- 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0.SEC **Purity** 99%	(Lot MKBL1376V)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1.SEC **Purity** 99%	(Lot UERIL)	25,000.9 µg/mL	+/- 145.3496 +/- 1,508.4128 +/- 1,511.9941	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4.SEC **Purity** 99%	(Lot ZAQTA-MS)	2,500.0 µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2.SEC **Purity** 98%	(Lot HGC01-BLKT)	2,500.7 µg/mL	+/- 14.5394 +/- 150.8792 +/- 151.2374	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3.SEC **Purity** 99%	(Lot 10188491)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3.SEC **Purity** 99%	(Lot 5379000)	2,500.3 µg/mL	+/- 14.5367 +/- 150.8512 +/- 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7.SEC **Purity** 98%	(Lot 17E8E)	2,500.1 µg/mL	+/- 14.5358 +/- 150.8423 +/- 151.2004	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5.SEC **Purity** 97%	(Lot TS5UB)	2,500.2 µg/mL	+/- 14.5362 +/- 150.8466 +/- 151.2048	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1.SEC **Purity** 99%	(Lot 83NHH)	62,506.9 µg/mL	+/- 363.4014 +/- 3,771.3149 +/- 3,780.2687	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Chloroform **CAS #** 67-66-3.SEC **Purity** 99%	(Lot 1297547)	2,500.1 µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5.SEC **Purity** 99%	(Lot 5670200)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9.SEC **Purity** 99%	(Lot K3V7J-SJ)	5,002.3 µg/mL	+/- 29.0835 +/- 301.8079 +/- 302.5245	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-Trichloroethane **CAS #** 71-55-6.SEC **Purity** 98%	(Lot CS160712)	2,500.7 µg/mL	+/- 14.5394 +/- 150.8792 +/- 151.2374	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7.SEC **Purity** 99%	(Lot YADRA)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6.SEC **Purity** 96%	(Lot 5221100)	2,501.3 µg/mL	+/- 14.5427 +/- 150.9133 +/- 151.2716	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Carbon tetrachloride **CAS #** 56-23-5.SEC **Purity** 99%	(Lot 11466)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) **CAS #** 142-82-5.SEC **Purity** 99%	(Lot OGM01)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane **CAS #** 107-06-2.SEC **Purity** 99%	(Lot FO6PK)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene **CAS #** 71-43-2.SEC **Purity** 99%	(Lot B28Y008)	2,501.5	µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene **CAS #** 79-01-6.SEC **Purity** 99%	(Lot H04X050)	2,501.0	µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane **CAS #** 108-87-2.SEC **Purity** 99%	(Lot 24MSD-CD)	2,500.9	µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane **CAS #** 78-87-5.SEC **Purity** 99%	(Lot OGG01)	2,501.1	µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane **CAS #** 123-91-1.SEC **Purity** 99%	(Lot MUFZH)	50,007.1	µg/mL	+/- 290.7305 +/- 3,017.1500 +/- 3,024.3132	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane **CAS #** 74-95-3.SEC **Purity** 99%	(Lot FGI01-OICH)	2,501.6	µg/mL	+/- 14.5447 +/- 150.9341 +/- 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene **CAS #** 10061-01-5.SEC **Purity** 99%	(Lot 487OA)	2,500.1	µg/mL	+/- 14.5359 +/- 150.8436 +/- 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene **CAS #** 108-88-3.SEC **Purity** 99%	(Lot YND2B-BD)	2,500.0	µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate **CAS #** 97-63-2.SEC **Purity** 99%	(Lot MLWYK-LS)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene **CAS #** 10061-02-6.SEC **Purity** 99%	(Lot ZDMSL)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane **CAS #** 79-00-5.SEC **Purity** 98%	(Lot 5034600)	2,500.8	µg/mL	+/- 14.5401 +/- 150.8866 +/- 151.2448	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane **CAS #** 142-28-9.SEC **Purity** 99%	(Lot AGN01-EFPC)	2,500.5	µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene **CAS #** 127-18-4.SEC **Purity** 99%	(Lot F09W014)	2,501.3	µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	Dibromochloromethane **CAS #** 124-48-1.SEC **Purity** 97%	(Lot 10181507)	2,500.4 µg/mL	+/- 14.5376 +/- 150.8613 +/- 151.2194	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4.SEC **Purity** 99%	(Lot 3505900)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7.SEC **Purity** 99%	(Lot 1161936)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3.SEC **Purity** 99%	(Lot OUKMG-GB)	1,250.9 µg/mL	+/- 7.2727 +/- 75.4708 +/- 75.6500	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3.SEC **Purity** 99%	(Lot GM01)	1,250.5 µg/mL	+/- 7.2705 +/- 75.4482 +/- 75.6273	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4.SEC **Purity** 99%	(Lot PI4SE)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6.SEC **Purity** 99%	(Lot GC01)	2,501.1 µg/mL	+/- 14.5418 +/- 150.9040 +/- 151.2622	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6.SEC **Purity** 99%	(Lot FGL01-KTPK)	2,500.9 µg/mL	+/- 14.5403 +/- 150.8889 +/- 151.2471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5.SEC **Purity** 99%	(Lot OFIOL-IA)	2,500.4 µg/mL	+/- 14.5374 +/- 150.8587 +/- 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8.SEC **Purity** 99%	(Lot 2PHXG-IH)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	Bromoform **CAS #** 75-25-2.SEC **Purity** 99%	(Lot 5139000)	2,502.3 µg/mL	+/- 14.5483 +/- 150.9718 +/- 151.3303	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Bromodichloromethane **CAS #** 75-27-4.SEC **Purity** 98%	(Lot 13780)	2,500.1 µg/mL	+/- 14.5358 +/- 150.8423 +/- 151.2004	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5.SEC **Purity** 99%	(Lot CFA4D-AQ)	2,501.3 µg/mL	+/- 14.5425 +/- 150.9115 +/- 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4.SEC **Purity** 98%	(Lot OGI01)	2,500.1 µg/mL	+/- 14.5358 +/- 150.8423 +/- 151.2004	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-Dichloro-2-butene **CAS #** 110-57-6.SEC **Purity** 98%	(Lot 100700-3)	2,501.0 µg/mL	+/- 14.5408 +/- 150.8940 +/- 151.2522	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1.SEC **Purity** 99%	(Lot T2HFC-IT)	2,500.0 µg/mL	+/- 14.5352 +/- 150.8361 +/- 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	150.8512	µg/mL	Unstressed
	Purity 99%				+/-	151.2093	µg/mL	Stressed
58	2-Chlorotoluene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
59	4-Chlorotoluene		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
60	tert-Butylbenzene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot OGN01-CAI)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot SC7LO-QA)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
62	sec-Butylbenzene		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot OGN01-IMA)			+/-	150.9190	µg/mL	Unstressed
	Purity 99%				+/-	151.2773	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 5221800)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)			+/-	150.8813	µg/mL	Unstressed
	Purity 99%				+/-	151.2395	µg/mL	Stressed
66	n-Butylbenzene		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot OGN01-PNP)			+/-	150.8813	µg/mL	Unstressed
	Purity 99%				+/-	151.2395	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,501.5	µg/mL	+/-	14.5436	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)			+/-	150.9236	µg/mL	Unstressed
	Purity 98%				+/-	151.2819	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)			+/-	150.9869	µg/mL	Unstressed
	Purity 99%				+/-	151.3454	µg/mL	Stressed
70	Hexachlorobutadiene		2,501.4	µg/mL	+/-	14.5433	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)			+/-	150.9198	µg/mL	Unstressed
	Purity 97%				+/-	151.2781	µg/mL	Stressed
71	Naphthalene		2,501.8	µg/mL	+/-	14.5454	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	150.9417	µg/mL	Unstressed
	Purity 99%				+/-	151.3000	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,500.7	µg/mL	+/-	14.5394	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	150.8792	µg/mL	Unstressed
	Purity 98%				+/-	151.2374	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

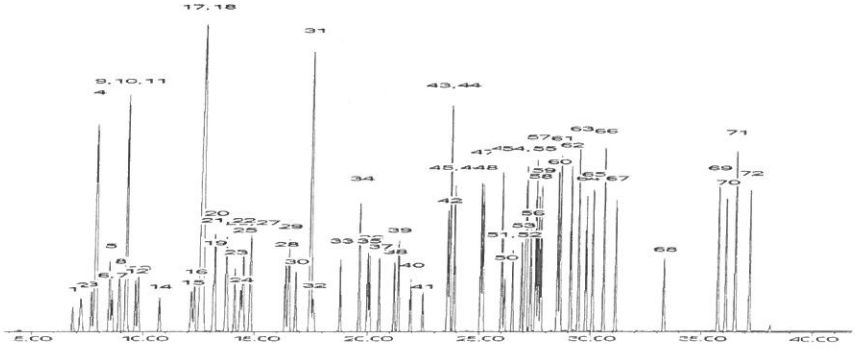
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J Maye

Date Mixed: 28-Dec-2016 **Balance:** 1127510105

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 04-Jan-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

VM571992S_00006

Rec: 9/9/19
VM571992S-00006

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992.SEC **Lot No.:** A0144202

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 98%	2,517.0 µg/mL	+/- 14.6339 +/- 151.8598 +/- 152.2203	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 7692300) **Purity** 99%	2,503.3 µg/mL	+/- 14.5546 +/- 151.0372 +/- 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,000.8 µg/mL	+/- 145.3491 +/- 1,508.4071 +/- 1,511.9883	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot UCNEL) **Purity** 99%	5,002.3 µg/mL	+/- 29.0840 +/- 301.8129 +/- 302.5295	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,503.5 µg/mL	+/- 14.5556 +/- 151.0472 +/- 151.4059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot H3HGC) **Purity** 99%	2,511.7 µg/mL	+/- 14.6030 +/- 151.5400 +/- 151.8998	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC (Lot FGM02) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide **CAS #** 75-15-0.SEC (Lot MKBL1376V) **Purity** 99%	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile **CAS #** 107-13-1.SEC (Lot UERIL) **Purity** 99%	25,001.2 µg/mL	+/- 145.3513 +/- 1,508.4304 +/- 1,512.0117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Methyl-tert-butyl ether (MTBE) **CAS #** 1634-04-4.SEC (Lot ZHKYA) **Purity** 99%	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	cis-1,2-Dichloroethene **CAS #** 156-59-2.SEC (Lot HGC01-BLKT) **Purity** 98%	2,501.3 µg/mL	+/- 14.5427 +/- 150.9137 +/- 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexane (C6) **CAS #** 110-54-3.SEC (Lot K24W001) **Purity** 97%	2,503.2 µg/mL	+/- 14.5541 +/- 151.0320 +/- 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	1,1-Dichloroethane **CAS #** 75-34-3.SEC (Lot 5379000) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	2,2-Dichloropropane **CAS #** 594-20-7.SEC (Lot I7E8E) **Purity** 98%	2,503.2 µg/mL	+/- 14.5541 +/- 151.0320 +/- 151.3905	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	trans-1,2-Dichloroethene **CAS #** 156-60-5.SEC (Lot TS5UB) **Purity** 97%	2,501.0 µg/mL	+/- 14.5409 +/- 150.8954 +/- 151.2537	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Isobutanol (2-Methyl-1-propanol) **CAS #** 78-83-1.SEC (Lot PH2XK) **Purity** 99%	62,508.3 µg/mL	+/- 363.4098 +/- 3,771.4029 +/- 3,780.3569	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Chloroform **CAS #** 67-66-3.SEC (Lot 1297547) **Purity** 99%	2,500.5 µg/mL	+/- 14.5381 +/- 150.8662 +/- 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Bromochloromethane **CAS #** 74-97-5.SEC (Lot 5670200) **Purity** 99%	2,507.0 µg/mL	+/- 14.5759 +/- 151.2584 +/- 151.6175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	Tetrahydrofuran **CAS #** 109-99-9.SEC (Lot 8DAOJ) **Purity** 99%	5,006.7 µg/mL	+/- 29.1092 +/- 302.0744 +/- 302.7916	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	1,1,1-Trichloroethane **CAS #** 71-55-6.SEC (Lot 7998000) **Purity** 99%	2,507.7 µg/mL	+/- 14.5798 +/- 151.2986 +/- 151.6579	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	Cyclohexane **CAS #** 110-82-7.SEC (Lot YADRA) **Purity** 99%	2,508.0 µg/mL	+/- 14.5817 +/- 151.3188 +/- 151.6780	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,1-Dichloropropene **CAS #** 563-58-6.SEC (Lot 5221100) **Purity** 96%	2,502.4 µg/mL	+/- 14.5492 +/- 150.9809 +/- 151.3393	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Carbon tetrachloride		2,510.3 µg/mL	+/- 14.5953	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)		+/- 151.4595	µg/mL	Unstressed
	Purity 99%			+/- 151.8191	µg/mL	Stressed
25	n-Heptane (C7)		2,511.8 µg/mL	+/- 14.6040	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)		+/- 151.5500	µg/mL	Unstressed
	Purity 99%			+/- 151.9098	µg/mL	Stressed
26	1,2-Dichloroethane		2,501.3 µg/mL	+/- 14.5430	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)		+/- 150.9165	µg/mL	Unstressed
	Purity 99%			+/- 151.2748	µg/mL	Stressed
27	Benzene		2,504.8 µg/mL	+/- 14.5633	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)		+/- 151.1277	µg/mL	Unstressed
	Purity 99%			+/- 151.4865	µg/mL	Stressed
28	Trichloroethene		2,508.7 µg/mL	+/- 14.5856	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)		+/- 151.3590	µg/mL	Unstressed
	Purity 99%			+/- 151.7183	µg/mL	Stressed
29	Methylcyclohexane		2,504.5 µg/mL	+/- 14.5614	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)		+/- 151.1076	µg/mL	Unstressed
	Purity 99%			+/- 151.4663	µg/mL	Stressed
30	1,2-Dichloropropane		2,504.0 µg/mL	+/- 14.5585	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)		+/- 151.0774	µg/mL	Unstressed
	Purity 99%			+/- 151.4361	µg/mL	Stressed
31	1,4-Dioxane		50,008.0 µg/mL	+/- 290.7356	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot YVP2C)		+/- 3,017.2028	µg/mL	Unstressed
	Purity 99%			+/- 3,024.3661	µg/mL	Stressed
32	Dibromomethane		2,509.5 µg/mL	+/- 14.5904	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)		+/- 151.4093	µg/mL	Unstressed
	Purity 99%			+/- 151.7687	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,502.0 µg/mL	+/- 14.5468	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)		+/- 150.9567	µg/mL	Unstressed
	Purity 99%			+/- 151.3151	µg/mL	Stressed
34	Toluene		2,501.5 µg/mL	+/- 14.5439	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)		+/- 150.9266	µg/mL	Unstressed
	Purity 99%			+/- 151.2849	µg/mL	Stressed
35	Ethyl methacrylate		2,508.8 µg/mL	+/- 14.5866	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)		+/- 151.3690	µg/mL	Unstressed
	Purity 99%			+/- 151.7284	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,502.9 µg/mL	+/- 14.5520	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)		+/- 151.0098	µg/mL	Unstressed
	Purity 96%			+/- 151.3684	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,502.5 µg/mL	+/- 14.5498	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)		+/- 150.9869	µg/mL	Unstressed
	Purity 99%			+/- 151.3454	µg/mL	Stressed
38	1,3-Dichloropropane		2,502.7 µg/mL	+/- 14.5507	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)		+/- 150.9970	µg/mL	Unstressed
	Purity 99%			+/- 151.3555	µg/mL	Stressed
39	Tetrachloroethene		2,505.0 µg/mL	+/- 14.5643	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)		+/- 151.1378	µg/mL	Unstressed
	Purity 99%			+/- 151.4966	µg/mL	Stressed

40	Dibromochloromethane		2,502.4 µg/mL	+/-	14.5494	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)		+/-	150.9832	µg/mL	Unstressed
	Purity 97%			+/-	151.3417	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,503.3 µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 3505900)		+/-	151.0372	µg/mL	Unstressed
	Purity 99%			+/-	151.3958	µg/mL	Stressed
42	Chlorobenzene		2,504.8 µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)		+/-	151.1277	µg/mL	Unstressed
	Purity 99%			+/-	151.4865	µg/mL	Stressed
43	m-Xylene		1,251.7 µg/mL	+/-	7.2941	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)		+/-	75.5202	µg/mL	Unstressed
	Purity 99%			+/-	75.6995	µg/mL	Stressed
44	p-Xylene		1,253.7 µg/mL	+/-	7.3058	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)		+/-	75.6409	µg/mL	Unstressed
	Purity 99%			+/-	75.8205	µg/mL	Stressed
45	Ethylbenzene		2,503.5 µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)		+/-	151.0472	µg/mL	Unstressed
	Purity 99%			+/-	151.4059	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,506.7 µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)		+/-	151.2383	µg/mL	Unstressed
	Purity 99%			+/-	151.5974	µg/mL	Stressed
47	o-Xylene		2,504.2 µg/mL	+/-	14.5594	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)		+/-	151.0875	µg/mL	Unstressed
	Purity 99%			+/-	151.4462	µg/mL	Stressed
48	Styrene		2,507.2 µg/mL	+/-	14.5769	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)		+/-	151.2685	µg/mL	Unstressed
	Purity 99%			+/-	151.6276	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,505.2 µg/mL	+/-	14.5653	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)		+/-	151.1478	µg/mL	Unstressed
	Purity 99%			+/-	151.5067	µg/mL	Stressed
50	Bromoform		2,500.5 µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 5461400)		+/-	150.8661	µg/mL	Unstressed
	Purity 97%			+/-	151.2243	µg/mL	Stressed
51	Bromodichloromethane		2,501.3 µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)		+/-	150.9137	µg/mL	Unstressed
	Purity 98%			+/-	151.2720	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)		+/-	150.9567	µg/mL	Unstressed
	Purity 99%			+/-	151.3151	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,505.7 µg/mL	+/-	14.5682	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)		+/-	151.1780	µg/mL	Unstressed
	Purity 99%			+/-	151.5369	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,514.2 µg/mL	+/-	14.6177	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)		+/-	151.6922	µg/mL	Unstressed
	Purity 98%			+/-	152.0524	µg/mL	Stressed
55	n-Propylbenzene		2,503.7 µg/mL	+/-	14.5565	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)		+/-	151.0573	µg/mL	Unstressed
	Purity 99%			+/-	151.4159	µg/mL	Stressed

56	Bromobenzene		2,506.2	µg/mL	+/-	14.5711	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)			+/-	151.2081	µg/mL	Unstressed
	Purity 99%				+/-	151.5671	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot FGH02-CMLN)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
58	2-Chlorotoluene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
59	4-Chlorotoluene		2,509.2	µg/mL	+/-	14.5885	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)			+/-	151.3891	µg/mL	Unstressed
	Purity 99%				+/-	151.7486	µg/mL	Stressed
60	tert-Butylbenzene		2,505.8	µg/mL	+/-	14.5691	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	151.1880	µg/mL	Unstressed
	Purity 99%				+/-	151.5470	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
62	sec-Butylbenzene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot OGN01-IMA)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)		2,500.3	µg/mL	+/-	14.5372	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 6628200)			+/-	150.8562	µg/mL	Unstressed
	Purity 99%				+/-	151.2143	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,506.3	µg/mL	+/-	14.5720	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	151.2182	µg/mL	Unstressed
	Purity 99%				+/-	151.5772	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,509.8	µg/mL	+/-	14.5924	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)			+/-	151.4294	µg/mL	Unstressed
	Purity 99%				+/-	151.7889	µg/mL	Stressed
66	n-Butylbenzene		2,513.7	µg/mL	+/-	14.6147	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	151.6607	µg/mL	Unstressed
	Purity 99%				+/-	152.0207	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,501.8	µg/mL	+/-	14.5459	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	150.9467	µg/mL	Unstressed
	Purity 99%				+/-	151.3051	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,508.5	µg/mL	+/-	14.5845	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)			+/-	151.3473	µg/mL	Unstressed
	Purity 98%				+/-	151.7066	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed
70	Hexachlorobutadiene		2,504.4	µg/mL	+/-	14.5607	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)			+/-	151.1002	µg/mL	Unstressed
	Purity 97%				+/-	151.4590	µg/mL	Stressed
71	Naphthalene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot 4KW3H-OO)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,512.2 µg/mL	+/-	14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/-	151.5740	µg/mL	Unstressed
	Purity 98%			+/-	151.9338	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

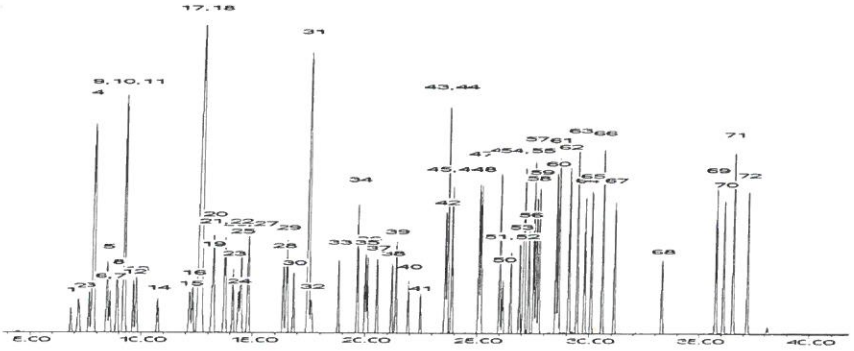
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 17-Dec-2018 **Balance:** 1127510105

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM571992S_00007

VM571992S-00007 Rec; 2-21-20

RESTEK® CERTIFIED REFERENCE MATERIAL

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992.SEC **Lot No.:** A0144202

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC (Lot F23X068) **Purity** 98%	2,517.0 µg/mL	+/- 14.6339 +/- 151.8598 +/- 152.2203	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC (Lot 18342) **Purity** 99%	2,506.7 µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 7692300) **Purity** 99%	2,503.3 µg/mL	+/- 14.5546 +/- 151.0372 +/- 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC (Lot XYXDO) **Purity** 98%	25,000.8 µg/mL	+/- 145.3491 +/- 1,508.4071 +/- 1,511.9883	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9.SEC (Lot UCNEL) **Purity** 99%	5,002.3 µg/mL	+/- 29.0840 +/- 301.8129 +/- 302.5295	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC (Lot Y25A027) **Purity** 99%	2,503.5 µg/mL	+/- 14.5556 +/- 151.0472 +/- 151.4059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC (Lot H3HGC) **Purity** 99%	2,511.7 µg/mL	+/- 14.6030 +/- 151.5400 +/- 151.8998	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,506.7 µg/mL	+/-	14.5740	µg/mL	Gravimetric
	CAS # 75-09-2.SEC	(Lot FGM02)		+/-	151.2383	µg/mL	Unstressed
	Purity 99%			+/-	151.5974	µg/mL	Stressed
9	Carbon disulfide		2,500.7 µg/mL	+/-	14.5391	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)		+/-	150.8763	µg/mL	Unstressed
	Purity 99%			+/-	151.2345	µg/mL	Stressed
10	Acrylonitrile		25,001.2 µg/mL	+/-	145.3513	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot UERIL)		+/-	1,508.4304	µg/mL	Unstressed
	Purity 99%			+/-	1,512.0117	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,501.5 µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)		+/-	150.9266	µg/mL	Unstressed
	Purity 99%			+/-	151.2849	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,501.3 µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 156-59-2.SEC	(Lot HGC01-BLKT)		+/-	150.9137	µg/mL	Unstressed
	Purity 98%			+/-	151.2720	µg/mL	Stressed
13	n-Hexane (C6)		2,503.2 µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot K24W001)		+/-	151.0320	µg/mL	Unstressed
	Purity 97%			+/-	151.3905	µg/mL	Stressed
14	1,1-Dichloroethane		2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 75-34-3.SEC	(Lot 5379000)		+/-	150.9567	µg/mL	Unstressed
	Purity 99%			+/-	151.3151	µg/mL	Stressed
15	2,2-Dichloropropane		2,503.2 µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 594-20-7.SEC	(Lot I7E8E)		+/-	151.0320	µg/mL	Unstressed
	Purity 98%			+/-	151.3905	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,501.0 µg/mL	+/-	14.5409	µg/mL	Gravimetric
	CAS # 156-60-5.SEC	(Lot TS5UB)		+/-	150.8954	µg/mL	Unstressed
	Purity 97%			+/-	151.2537	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,508.3 µg/mL	+/-	363.4098	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot PH2XK)		+/-	3,771.4029	µg/mL	Unstressed
	Purity 99%			+/-	3,780.3569	µg/mL	Stressed
18	Chloroform		2,500.5 µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 67-66-3.SEC	(Lot 1297547)		+/-	150.8662	µg/mL	Unstressed
	Purity 99%			+/-	151.2244	µg/mL	Stressed
19	Bromochloromethane		2,507.0 µg/mL	+/-	14.5759	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 5670200)		+/-	151.2584	µg/mL	Unstressed
	Purity 99%			+/-	151.6175	µg/mL	Stressed
20	Tetrahydrofuran		5,006.7 µg/mL	+/-	29.1092	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 8DAOJ)		+/-	302.0744	µg/mL	Unstressed
	Purity 99%			+/-	302.7916	µg/mL	Stressed
21	1,1,1-Trichloroethane		2,507.7 µg/mL	+/-	14.5798	µg/mL	Gravimetric
	CAS # 71-55-6.SEC	(Lot 7998000)		+/-	151.2986	µg/mL	Unstressed
	Purity 99%			+/-	151.6579	µg/mL	Stressed
22	Cyclohexane		2,508.0 µg/mL	+/-	14.5817	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)		+/-	151.3188	µg/mL	Unstressed
	Purity 99%			+/-	151.6780	µg/mL	Stressed
23	1,1-Dichloropropene		2,502.4 µg/mL	+/-	14.5492	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 5221100)		+/-	150.9809	µg/mL	Unstressed
	Purity 96%			+/-	151.3393	µg/mL	Stressed

24	Carbon tetrachloride		2,510.3	µg/mL	+/-	14.5953	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	151.4595	µg/mL	Unstressed
	Purity 99%				+/-	151.8191	µg/mL	Stressed
25	n-Heptane (C7)		2,511.8	µg/mL	+/-	14.6040	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	151.5500	µg/mL	Unstressed
	Purity 99%				+/-	151.9098	µg/mL	Stressed
26	1,2-Dichloroethane		2,501.3	µg/mL	+/-	14.5430	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)			+/-	150.9165	µg/mL	Unstressed
	Purity 99%				+/-	151.2748	µg/mL	Stressed
27	Benzene		2,504.8	µg/mL	+/-	14.5633	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	151.1277	µg/mL	Unstressed
	Purity 99%				+/-	151.4865	µg/mL	Stressed
28	Trichloroethene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
29	Methylcyclohexane		2,504.5	µg/mL	+/-	14.5614	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	151.1076	µg/mL	Unstressed
	Purity 99%				+/-	151.4663	µg/mL	Stressed
30	1,2-Dichloropropane		2,504.0	µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	151.0774	µg/mL	Unstressed
	Purity 99%				+/-	151.4361	µg/mL	Stressed
31	1,4-Dioxane		50,008.0	µg/mL	+/-	290.7356	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot YVP2C)			+/-	3,017.2028	µg/mL	Unstressed
	Purity 99%				+/-	3,024.3661	µg/mL	Stressed
32	Dibromomethane		2,509.5	µg/mL	+/-	14.5904	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)			+/-	151.4093	µg/mL	Unstressed
	Purity 99%				+/-	151.7687	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
34	Toluene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
35	Ethyl methacrylate		2,508.8	µg/mL	+/-	14.5866	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	151.3690	µg/mL	Unstressed
	Purity 99%				+/-	151.7284	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,502.9	µg/mL	+/-	14.5520	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	151.0098	µg/mL	Unstressed
	Purity 96%				+/-	151.3684	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	150.9869	µg/mL	Unstressed
	Purity 99%				+/-	151.3454	µg/mL	Stressed
38	1,3-Dichloropropane		2,502.7	µg/mL	+/-	14.5507	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	150.9970	µg/mL	Unstressed
	Purity 99%				+/-	151.3555	µg/mL	Stressed
39	Tetrachloroethene		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	151.1378	µg/mL	Unstressed
	Purity 99%				+/-	151.4966	µg/mL	Stressed

40	Dibromochloromethane **CAS #** 124-48-1.SEC **Purity** 97%	(Lot 10206360)	2,502.4 µg/mL	+/- 14.5494 +/- 150.9832 +/- 151.3417	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) **CAS #** 106-93-4.SEC **Purity** 99%	(Lot 3505900)	2,503.3 µg/mL	+/- 14.5546 +/- 151.0372 +/- 151.3958	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene **CAS #** 108-90-7.SEC **Purity** 99%	(Lot 1161936)	2,504.8 µg/mL	+/- 14.5633 +/- 151.1277 +/- 151.4865	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene **CAS #** 108-38-3.SEC **Purity** 99%	(Lot OUKMG-GB)	1,251.7 µg/mL	+/- 7.2941 +/- 75.5202 +/- 75.6995	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene **CAS #** 106-42-3.SEC **Purity** 99%	(Lot GM01)	1,253.7 µg/mL	+/- 7.3058 +/- 75.6409 +/- 75.8205	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene **CAS #** 100-41-4.SEC **Purity** 99%	(Lot PI4SE)	2,503.5 µg/mL	+/- 14.5556 +/- 151.0472 +/- 151.4059	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6.SEC **Purity** 99%	(Lot GC01)	2,506.7 µg/mL	+/- 14.5740 +/- 151.2383 +/- 151.5974	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene **CAS #** 95-47-6.SEC **Purity** 99%	(Lot FGL01)	2,504.2 µg/mL	+/- 14.5594 +/- 151.0875 +/- 151.4462	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene **CAS #** 100-42-5.SEC **Purity** 99%	(Lot OFIOL-IA)	2,507.2 µg/mL	+/- 14.5769 +/- 151.2685 +/- 151.6276	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) **CAS #** 98-82-8.SEC **Purity** 99%	(Lot 2PHXG-IH)	2,505.2 µg/mL	+/- 14.5653 +/- 151.1478 +/- 151.5067	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	Bromoform **CAS #** 75-25-2.SEC **Purity** 97%	(Lot 5461400)	2,500.5 µg/mL	+/- 14.5381 +/- 150.8661 +/- 151.2243	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Bromodichloromethane **CAS #** 75-27-4.SEC **Purity** 98%	(Lot 13780)	2,501.3 µg/mL	+/- 14.5427 +/- 150.9137 +/- 151.2720	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5.SEC **Purity** 99%	(Lot CFA4D-AQ)	2,502.0 µg/mL	+/- 14.5468 +/- 150.9567 +/- 151.3151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane **CAS #** 96-18-4.SEC **Purity** 99%	(Lot GUHZN)	2,505.7 µg/mL	+/- 14.5682 +/- 151.1780 +/- 151.5369	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-Dichloro-2-butene **CAS #** 110-57-6.SEC **Purity** 98%	(Lot 100700-3)	2,514.2 µg/mL	+/- 14.6177 +/- 151.6922 +/- 152.0524	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene **CAS #** 103-65-1.SEC **Purity** 99%	(Lot T2HFC)	2,503.7 µg/mL	+/- 14.5565 +/- 151.0573 +/- 151.4159	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene		2,506.2	µg/mL	+/-	14.5711	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)			+/-	151.2081	µg/mL	Unstressed
	Purity 99%				+/-	151.5671	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot FGH02-CMLN)			+/-	151.4394	µg/mL	Unstressed
	Purity 99%				+/-	151.7990	µg/mL	Stressed
58	2-Chlorotoluene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
59	4-Chlorotoluene		2,509.2	µg/mL	+/-	14.5885	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)			+/-	151.3891	µg/mL	Unstressed
	Purity 99%				+/-	151.7486	µg/mL	Stressed
60	tert-Butylbenzene		2,505.8	µg/mL	+/-	14.5691	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	151.1880	µg/mL	Unstressed
	Purity 99%				+/-	151.5470	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,508.7	µg/mL	+/-	14.5856	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	151.3590	µg/mL	Unstressed
	Purity 99%				+/-	151.7183	µg/mL	Stressed
62	sec-Butylbenzene		2,504.7	µg/mL	+/-	14.5623	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot OGN01-IMA)			+/-	151.1176	µg/mL	Unstressed
	Purity 99%				+/-	151.4764	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)		2,500.3	µg/mL	+/-	14.5372	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 6628200)			+/-	150.8562	µg/mL	Unstressed
	Purity 99%				+/-	151.2143	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,506.3	µg/mL	+/-	14.5720	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	151.2182	µg/mL	Unstressed
	Purity 99%				+/-	151.5772	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,509.8	µg/mL	+/-	14.5924	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)			+/-	151.4294	µg/mL	Unstressed
	Purity 99%				+/-	151.7889	µg/mL	Stressed
66	n-Butylbenzene		2,513.7	µg/mL	+/-	14.6147	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	151.6607	µg/mL	Unstressed
	Purity 99%				+/-	152.0207	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,501.8	µg/mL	+/-	14.5459	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	150.9467	µg/mL	Unstressed
	Purity 99%				+/-	151.3051	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,508.5	µg/mL	+/-	14.5845	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)			+/-	151.3473	µg/mL	Unstressed
	Purity 98%				+/-	151.7066	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed
70	Hexachlorobutadiene		2,504.4	µg/mL	+/-	14.5607	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)			+/-	151.1002	µg/mL	Unstressed
	Purity 97%				+/-	151.4590	µg/mL	Stressed
71	Naphthalene		2,503.3	µg/mL	+/-	14.5546	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot 4KW3H-OO)			+/-	151.0372	µg/mL	Unstressed
	Purity 99%				+/-	151.3958	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,512.2 µg/mL	+/-	14.6063	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/-	151.5740	µg/mL	Unstressed
	Purity 98%			+/-	151.9338	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

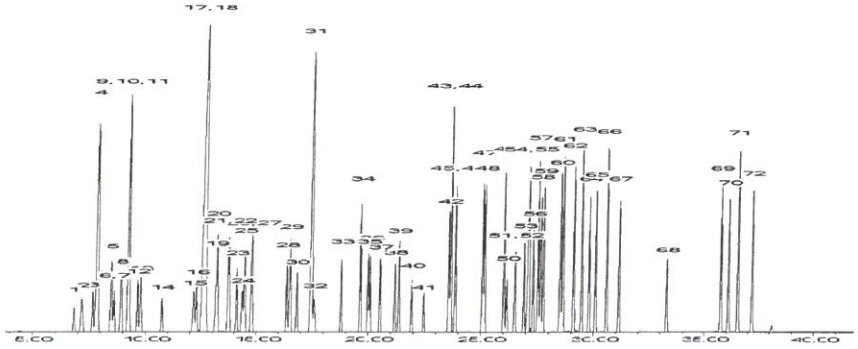
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 17-Dec-2018 **Balance:** 1127510105

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 21-Dec-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

VM571993_00001

VM571993-0001 Rec: 2-1-17

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0123796

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2500-25,000 µg/ml, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetonitrile **CAS #** 75-05-8 **Purity** 98%	(Lot SHBB3177V)	25,004.5 µg/mL	+/- 145.3705 µg/mL +/- 1,236.9157 µg/mL +/- 1,267.6727 µg/mL	Gravimetric Unstressed Stressed
2	Diisopropyl ether (DIPE) **CAS #** 108-20-3 **Purity** 99%	(Lot SHBC0391V)	2,505.0 µg/mL	+/- 14.5643 µg/mL +/- 123.9170 µg/mL +/- 126.9983 µg/mL	Gravimetric Unstressed Stressed
3	Ethyl-tert-butyl ether (ETBE) **CAS #** 637-92-3 **Purity** 99%	(Lot MKBT8400V)	2,501.5 µg/mL	+/- 14.5439 µg/mL +/- 123.7438 µg/mL +/- 126.8208 µg/mL	Gravimetric Unstressed Stressed
4	Propionitrile **CAS #** 107-12-0 **Purity** 99%	(Lot BCBM6569V)	25,003.8 µg/mL	+/- 145.3664 µg/mL +/- 1,236.8808 µg/mL +/- 1,267.6370 µg/mL	Gravimetric Unstressed Stressed
5	tert-Amyl alcohol **CAS #** 75-85-4 **Purity** 99%	(Lot STBB1898V)	25,006.0 µg/mL	+/- 145.3794 µg/mL +/- 1,236.9921 µg/mL +/- 1,267.7510 µg/mL	Gravimetric Unstressed Stressed
6	tert-Amyl methyl ether (TAME) **CAS #** 994-05-8 **Purity** 98%	(Lot HMBD8698V)	2,505.4 µg/mL	+/- 14.5664 µg/mL +/- 123.9353 µg/mL +/- 127.0170 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM571993_00004

Rec: 6-11-20
VM571993_00004

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0158947

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetonitrile **CAS #** 75-05-8 (Lot SHBH6233) **Purity** 99%	25,021.3 µg/mL	+/- 146.5054 µg/mL +/- 1,237.8729 µg/mL +/- 1,268.6477 µg/mL		Gravimetric Unstressed Stressed
2	Diisopropyl ether (DIPE) **CAS #** 108-20-3 (Lot SHBH1927V) **Purity** 99%	2,503.7 µg/mL	+/- 14.6929 µg/mL +/- 123.8671 µg/mL +/- 126.9464 µg/mL		Gravimetric Unstressed Stressed
3	Ethyl-tert-butyl ether (ETBE) **CAS #** 637-92-3 (Lot MKCG1429) **Purity** 99%	2,502.3 µg/mL	+/- 14.6851 µg/mL +/- 123.8011 µg/mL +/- 126.8788 µg/mL		Gravimetric Unstressed Stressed
4	Propionitrile **CAS #** 107-12-0 (Lot BCBW0865) **Purity** 99%	25,038.0 µg/mL	+/- 146.6030 µg/mL +/- 1,238.6975 µg/mL +/- 1,269.4928 µg/mL		Gravimetric Unstressed Stressed
5	tert-Amyl alcohol **CAS #** 75-85-4 (Lot STBG1140V) **Purity** 99%	25,036.7 µg/mL	+/- 146.5952 µg/mL +/- 1,238.6315 µg/mL +/- 1,269.4252 µg/mL		Gravimetric Unstressed Stressed
6	tert-Amyl methyl ether (TAME) **CAS #** 994-05-8 (Lot HMBG6382V) **Purity** 99%	2,502.7 µg/mL	+/- 14.6871 µg/mL +/- 123.8176 µg/mL +/- 126.8957 µg/mL		Gravimetric Unstressed Stressed

Reagent

VM571993S_00006

VM571993S-00006 Rec'd 4/9/19

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993.SEC **Lot No.:** A0143318

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetonitrile **CAS #** 75-05-8.SEC (Lot 7KGDA) **Purity** 99%	25,020.5 µg/mL	+/- 146.5005 µg/mL +/- 1,237.8317 µg/mL +/- 1,268.6055 µg/mL	Gravimetric Unstressed Stressed
2	Diisopropyl ether (DIPE) **CAS #** 108-20-3.SEC (Lot LL7TN-SH) **Purity** 98%	2,506.8 µg/mL	+/- 14.7115 µg/mL +/- 124.0241 µg/mL +/- 127.1073 µg/mL	Gravimetric Unstressed Stressed
3	Ethyl-tert-butyl ether (ETBE) **CAS #** 637-92-3.SEC (Lot MHBJG-QK) **Purity** 99%	2,509.0 µg/mL	+/- 14.7242 µg/mL +/- 124.1310 µg/mL +/- 127.2168 µg/mL	Gravimetric Unstressed Stressed
4	Propionitrile **CAS #** 107-12-0.SEC (Lot PS48O) **Purity** 99%	25,017.5 µg/mL	+/- 146.4830 µg/mL +/- 1,237.6833 µg/mL +/- 1,268.4534 µg/mL	Gravimetric Unstressed Stressed
5	tert-Amyl alcohol **CAS #** 75-85-4.SEC (Lot ZL6RD) **Purity** 99%	25,019.0 µg/mL	+/- 146.4917 µg/mL +/- 1,237.7575 µg/mL +/- 1,268.5294 µg/mL	Gravimetric Unstressed Stressed
6	tert-Amyl methyl ether (TAME) **CAS #** 994-05-8.SEC (Lot 7375800) **Purity** 98%	2,510.3 µg/mL	+/- 14.7317 µg/mL +/- 124.1938 µg/mL +/- 127.2812 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM571993S_00007

Rec: 5-21-20
VM571993S_00007

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993.SEC **Lot No.:** A0148991

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetonitrile **CAS #** 75-05-8.SEC (Lot 7KGDA) **Purity** 99%	25,013.5 µg/mL	+/- 146.4595 µg/mL +/- 1,237.4854 µg/mL +/- 1,268.2506 µg/mL	Gravimetric Unstressed Stressed
2	Diisopropyl ether (DIPE) **CAS #** 108-20-3.SEC (Lot LL7TN-SH) **Purity** 99%	2,514.0 µg/mL	+/- 14.7536 µg/mL +/- 124.3783 µg/mL +/- 127.4703 µg/mL	Gravimetric Unstressed Stressed
3	Ethyl-tert-butyl ether (ETBE) **CAS #** 637-92-3.SEC (Lot MHBJG-QK) **Purity** 99%	2,511.5 µg/mL	+/- 14.7389 µg/mL +/- 124.2547 µg/mL +/- 127.3436 µg/mL	Gravimetric Unstressed Stressed
4	Propionitrile **CAS #** 107-12-0.SEC (Lot PS48O) **Purity** 99%	25,013.0 µg/mL	+/- 146.4566 µg/mL +/- 1,237.4606 µg/mL +/- 1,268.2252 µg/mL	Gravimetric Unstressed Stressed
5	tert-Amyl alcohol **CAS #** 75-85-4.SEC (Lot ZL6RD) **Purity** 99%	25,020.0 µg/mL	+/- 146.4976 µg/mL +/- 1,237.8069 µg/mL +/- 1,268.5801 µg/mL	Gravimetric Unstressed Stressed
6	tert-Amyl methyl ether (TAME) **CAS #** 994-05-8.SEC (Lot 8471400) **Purity** 99%	2,510.5 µg/mL	+/- 14.7330 µg/mL +/- 124.2052 µg/mL +/- 127.2929 µg/mL	Gravimetric Unstressed Stressed

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MSA-SW37A-030821	240-145599-1	102	98	88	101
MSA-SW37B-030821	240-145599-2	107	99	88	102
MSA-SW37C-030821	240-145599-3	107	99	88	100
MSA-SW37D-030821	240-145599-4	105	101	88	104
MSA-SW38A-030821	240-145599-5	105	99	88	103
MSA-SW38B-030821	240-145599-6	103	97	89	101
MSA-SW38C-030821	240-145599-7	106	99	87	101
MSA-SW38D-030821	240-145599-8	102	101	89	103
MSA-SW40A-030821	240-145599-9	104	100	88	102
MSA-SW40B-030821	240-145599-10	105	100	87	102
MSA-SW40C-030821	240-145599-11	107	101	89	99
MSA-SW40D-030821	240-145599-12	108	103	89	104
MSA-SW41A-030821	240-145599-13	100	99	87	102
MSA-SW41B-030821	240-145599-14	101	97	87	102
MSA-SW41C-030821	240-145599-15	105	100	89	101
MSA-SW41D-030821	240-145599-16	105	101	88	100
MSA-SW42A-030821	240-145599-17	100	103	94	107
MSA-SW42A-030821	240-145599-17	92	91	99	118
MSA-SW42B-030821	240-145599-18	99	102	94	108
MSA-SW42B-030821	240-145599-18	93	94	101	120
MSA-SW42C-030821	240-145599-19	105	101	91	108
MSA-SW42C-030821	240-145599-19	93	92	101	120
MSA-SW42D-030821	240-145599-20	110	124	105	100
MSA-SW43A-030821	240-145599-21	112	123	105	99
MSA-SW43B-030821	240-145599-22	114	123	106	99
MSA-SW43C-030821	240-145599-23	112	125	105	101
MSA-SW43D-030821	240-145599-24	113	126	103	99
MSA-SW44A-030821	240-145599-25	113	123	103	99
MSA-SW44B-030821	240-145599-26	117	127	107	101
MSA-SW44C-030821	240-145599-27	117	128	106	102
MSA-SW44D-030821	240-145599-28	113	123	104	99
TB-030821	240-145599-29	115	128	107	102
MSA-SW46A-030821	240-145599-30	103	101	93	110
MSA-SW46A-030821	240-145599-30	93	92	99	118
MSA-SW47A-030821	240-145599-31	106	104	91	104

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	78-129
DCA = 1,2-Dichloroethane-d4 (Surr)	75-130
TOL = Toluene-d8 (Surr)	69-122
BFB = 4-Bromofluorobenzene (Surr)	47-134

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MSA-SW48A-030821	240-145599-32	100	104	91	106
MSA-SW49A-030821	240-145599-33	106	103	92	108
	MB 240-476369/8	103	99	89	101
	MB 240-476858/8	111	119	103	103
	MB 240-476975/8	102	103	93	108
	MB 240-477127/8	93	91	99	119
	LCS 240-476369/5	91	89	89	103
	LCS 240-476858/5	111	114	107	108
	LCS 240-476975/5	91	94	97	111
	LCS 240-477127/10	91	89	99	119
	LCSD 240-476369/10	89	87	89	100
	LCSD 240-476975/10	90	92	97	111
	240-145830-A-2 MS	92	91	99	118
	240-145830-A-2 MSD	90	91	101	120

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	78-129
DCA = 1,2-Dichloroethane-d4 (Surr)	75-130
TOL = Toluene-d8 (Surr)	69-122
BFB = 4-Bromofluorobenzene (Surr)	47-134

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35610.D

Lab ID: LCS 240-476369/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	35.8	90	33-155	
Benzene	20.0	21.0	105	77-123	
Bromobenzene	20.0	21.6	108	77-120	
Bromochloromethane	20.0	21.6	108	70-128	
Bromodichloromethane	20.0	21.9	110	73-122	
Bromoform	20.0	17.7	88	47-133	
Bromomethane	20.0	18.2	91	48-144	
2-Butanone	40.0	31.5	79	41-151	
Carbon disulfide	20.0	19.3	97	67-127	
Carbon tetrachloride	20.0	21.9	110	61-142	
Chlorobenzene	20.0	21.5	108	80-120	
Chloroethane	20.0	21.6	108	41-147	
2-Chloroethyl vinyl ether	20.0	16.1	81	29-146	
Chloroform	20.0	21.9	109	74-127	
Chloromethane	20.0	23.5	117	46-148	
2-Chlorotoluene	20.0	21.8	109	73-126	
4-Chlorotoluene	20.0	21.9	109	73-126	
cis-1,2-Dichloroethene	20.0	22.2	111	75-124	
cis-1,3-Dichloropropene	20.0	20.1	100	68-128	
Dibromochloromethane	20.0	20.8	104	75-120	
1,2-Dibromo-3-Chloropropane	20.0	17.6	88	34-136	
1,2-Dibromoethane	20.0	19.7	98	73-120	
Dibromomethane	20.0	20.7	103	67-121	
1,2-Dichlorobenzene	20.0	20.2	101	74-120	
1,3-Dichlorobenzene	20.0	21.0	105	74-120	
1,4-Dichlorobenzene	20.0	21.2	106	75-120	
Dichlorodifluoromethane	20.0	24.6	123	35-137	
1,1-Dichloroethane	20.0	21.9	109	74-126	
1,2-Dichloroethane	20.0	21.4	107	66-129	
1,1-Dichloroethene	20.0	21.7	109	73-129	
1,2-Dichloropropane	20.0	21.7	108	79-127	
1,3-Dichloropropane	20.0	20.2	101	74-122	
2,2-Dichloropropane	20.0	22.2	111	67-137	
1,1-Dichloropropene	20.0	21.4	107	78-120	
Ethylbenzene	20.0	22.0	110	80-120	
Hexachlorobutadiene	20.0	20.1	100	40-120	
2-Hexanone	40.0	35.7	89	43-142	
Isopropylbenzene	20.0	23.0	115	73-123	
Methylene Chloride	20.0	20.5	102	63-134	
4-Methyl-2-pentanone	40.0	34.1	85	43-145	
Methyl tert-butyl ether	20.0	18.8	94	57-127	
m-Xylene & p-Xylene	20.0	22.1	110	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35610.D

Lab ID: LCS 240-476369/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	19.7	98	28-130	
n-Butylbenzene	20.0	21.5	108	54-129	
n-Propylbenzene	20.0	22.3	111	67-130	
o-Xylene	20.0	22.0	110	75-123	
p-Isopropyltoluene	20.0	22.4	112	66-127	
sec-Butylbenzene	20.0	22.6	113	60-131	
Styrene	20.0	19.7	99	75-121	
tert-Butyl alcohol	200	167	83	15-169	
tert-Butylbenzene	20.0	22.4	112	63-126	
1,1,1,2-Tetrachloroethane	20.0	20.1	101	77-120	
1,1,2,2-Tetrachloroethane	20.0	17.9	89	45-151	
Tetrachloroethene	20.0	21.8	109	70-125	
Toluene	20.0	21.6	108	79-122	
trans-1,2-Dichloroethene	20.0	21.5	108	74-130	
trans-1,3-Dichloropropene	20.0	18.2	91	64-120	
1,2,3-Trichlorobenzene	20.0	19.9	100	42-126	
1,2,4-Trichlorobenzene	20.0	19.7	99	47-120	
1,1,1-Trichloroethane	20.0	22.1	111	65-141	
Trichloroethene	20.0	20.7	104	71-121	
Trichlorofluoromethane	20.0	24.6	123	52-148	
1,2,3-Trichloropropane	20.0	18.4	92	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	25.2	126	54-148	
1,2,4-Trimethylbenzene	20.0	21.7	109	66-129	
Vinyl acetate	20.0	16.9	85	44-160	
Vinyl chloride	20.0	25.6	128	61-134	
Xylenes, Total	40.0	44.1	110	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: U1920961.d

Lab ID: LCS 240-476858/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	47.8	120	33-155	
Benzene	20.0	22.4	112	77-123	
Bromobenzene	20.0	18.3	92	77-120	
Bromochloromethane	20.0	23.4	117	70-128	
Bromodichloromethane	20.0	20.9	104	73-122	
Bromoform	20.0	16.2	81	47-133	
Bromomethane	20.0	20.6	103	48-144	
2-Butanone	40.0	40.9	102	41-151	
Carbon disulfide	20.0	16.7	83	67-127	
Carbon tetrachloride	20.0	18.1	91	61-142	
Chlorobenzene	20.0	19.6	98	80-120	
Chloroethane	20.0	24.4	122	41-147	
2-Chloroethyl vinyl ether	20.0	23.6	118	29-146	
Chloroform	20.0	22.4	112	74-127	
Chloromethane	20.0	24.0	120	46-148	
2-Chlorotoluene	20.0	21.2	106	73-126	
4-Chlorotoluene	20.0	20.5	103	73-126	
cis-1,2-Dichloroethene	20.0	20.7	104	75-124	
cis-1,3-Dichloropropene	20.0	21.3	107	68-128	
Dibromochloromethane	20.0	18.5	93	75-120	
1,2-Dibromo-3-Chloropropane	20.0	18.0	90	34-136	
1,2-Dibromoethane	20.0	18.8	94	73-120	
Dibromomethane	20.0	16.0	80	67-121	
1,2-Dichlorobenzene	20.0	19.3	97	74-120	
1,3-Dichlorobenzene	20.0	18.7	94	74-120	
1,4-Dichlorobenzene	20.0	18.6	93	75-120	
Dichlorodifluoromethane	20.0	15.9	80	35-137	
1,1-Dichloroethane	20.0	23.3	117	74-126	
1,2-Dichloroethane	20.0	21.7	108	66-129	
1,1-Dichloroethene	20.0	20.6	103	73-129	
1,2-Dichloropropane	20.0	24.5	122	79-127	
1,3-Dichloropropane	20.0	22.4	112	74-122	
2,2-Dichloropropane	20.0	20.2	101	67-137	
1,1-Dichloropropene	20.0	22.0	110	78-120	
Ethylbenzene	20.0	20.1	101	80-120	
Hexachlorobutadiene	20.0	12.5	63	40-120	
2-Hexanone	40.0	47.8	120	43-142	
Isopropylbenzene	20.0	19.9	100	73-123	
Methylene Chloride	20.0	23.5	118	63-134	
4-Methyl-2-pentanone	40.0	48.2	121	43-145	
Methyl tert-butyl ether	20.0	19.6	98	57-127	
m-Xylene & p-Xylene	20.0	20.2	101	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: U1920961.d

Lab ID: LCS 240-476858/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	19.3	97	28-130	
n-Butylbenzene	20.0	21.1	106	54-129	
n-Propylbenzene	20.0	21.2	106	67-130	
o-Xylene	20.0	20.5	103	75-123	
p-Isopropyltoluene	20.0	20.0	100	66-127	
sec-Butylbenzene	20.0	20.4	102	60-131	
Styrene	20.0	18.3	92	75-121	
tert-Butyl alcohol	200	228	114	15-169	
tert-Butylbenzene	20.0	19.5	98	63-126	
1,1,1,2-Tetrachloroethane	20.0	18.2	91	77-120	
1,1,2,2-Tetrachloroethane	20.0	23.9	119	45-151	
Tetrachloroethene	20.0	16.2	81	70-125	
Toluene	20.0	20.9	105	79-122	
trans-1,2-Dichloroethene	20.0	22.6	113	74-130	
trans-1,3-Dichloropropene	20.0	18.3	91	64-120	
1,2,3-Trichlorobenzene	20.0	16.7	84	42-126	
1,2,4-Trichlorobenzene	20.0	15.9	80	47-120	
1,1,1-Trichloroethane	20.0	19.1	95	65-141	
Trichloroethene	20.0	18.7	94	71-121	
Trichlorofluoromethane	20.0	18.3	91	52-148	
1,2,3-Trichloropropane	20.0	20.8	104	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	18.7	94	54-148	
1,2,4-Trimethylbenzene	20.0	21.6	108	66-129	
Vinyl acetate	20.0	21.0	105	44-160	
Vinyl chloride	20.0	24.3	121	61-134	
Xylenes, Total	40.0	40.7	102	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35683.D

Lab ID: LCS 240-476975/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	41.0	103	33-155	
Benzene	20.0	20.2	101	77-123	
Bromobenzene	20.0	20.2	101	77-120	
Bromochloromethane	20.0	18.9	94	70-128	
Bromodichloromethane	20.0	20.8	104	73-122	
Bromoform	20.0	18.3	92	47-133	
Bromomethane	20.0	20.6	103	48-144	
2-Butanone	40.0	39.2	98	41-151	
Carbon disulfide	20.0	19.4	97	67-127	
Carbon tetrachloride	20.0	18.9	94	61-142	
Chlorobenzene	20.0	19.5	98	80-120	
Chloroethane	20.0	22.9	115	41-147	
2-Chloroethyl vinyl ether	20.0	18.3	91	29-146	
Chloroform	20.0	20.1	100	74-127	
Chloromethane	20.0	23.5	117	46-148	
2-Chlorotoluene	20.0	20.5	103	73-126	
4-Chlorotoluene	20.0	21.1	106	73-126	
cis-1,2-Dichloroethene	20.0	19.8	99	75-124	
cis-1,3-Dichloropropene	20.0	20.3	102	68-128	
Dibromochloromethane	20.0	19.6	98	75-120	
1,2-Dibromo-3-Chloropropane	20.0	19.8	99	34-136	
1,2-Dibromoethane	20.0	19.6	98	73-120	
Dibromomethane	20.0	19.1	96	67-121	
1,2-Dichlorobenzene	20.0	19.1	96	74-120	
1,3-Dichlorobenzene	20.0	19.6	98	74-120	
1,4-Dichlorobenzene	20.0	19.8	99	75-120	
Dichlorodifluoromethane	20.0	20.9	105	35-137	
1,1-Dichloroethane	20.0	21.5	107	74-126	
1,2-Dichloroethane	20.0	21.2	106	66-129	
1,1-Dichloroethene	20.0	19.7	99	73-129	
1,2-Dichloropropane	20.0	22.0	110	79-127	
1,3-Dichloropropane	20.0	21.6	108	74-122	
2,2-Dichloropropane	20.0	21.1	106	67-137	
1,1-Dichloropropene	20.0	20.7	103	78-120	
Ethylbenzene	20.0	20.1	101	80-120	
Hexachlorobutadiene	20.0	20.4	102	40-120	
2-Hexanone	40.0	46.4	116	43-142	
Isopropylbenzene	20.0	20.6	103	73-123	
Methylene Chloride	20.0	19.2	96	63-134	
4-Methyl-2-pentanone	40.0	43.3	108	43-145	
Methyl tert-butyl ether	20.0	20.0	100	57-127	
m-Xylene & p-Xylene	20.0	20.0	100	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35683.D

Lab ID: LCS 240-476975/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	21.2	106	28-130	
n-Butylbenzene	20.0	22.3	111	54-129	
n-Propylbenzene	20.0	21.2	106	67-130	
o-Xylene	20.0	20.0	100	75-123	
p-Isopropyltoluene	20.0	21.3	107	66-127	
sec-Butylbenzene	20.0	22.0	110	60-131	
Styrene	20.0	18.1	91	75-121	
tert-Butyl alcohol	200	214	107	15-169	
tert-Butylbenzene	20.0	20.9	104	63-126	
1,1,1,2-Tetrachloroethane	20.0	18.9	95	77-120	
1,1,2,2-Tetrachloroethane	20.0	21.0	105	45-151	
Tetrachloroethene	20.0	19.6	98	70-125	
Toluene	20.0	20.7	103	79-122	
trans-1,2-Dichloroethene	20.0	19.9	100	74-130	
trans-1,3-Dichloropropene	20.0	19.8	99	64-120	
1,2,3-Trichlorobenzene	20.0	21.1	106	42-126	
1,2,4-Trichlorobenzene	20.0	20.4	102	47-120	
1,1,1-Trichloroethane	20.0	19.8	99	65-141	
Trichloroethene	20.0	17.9	89	71-121	
Trichlorofluoromethane	20.0	23.1	115	52-148	
1,2,3-Trichloropropane	20.0	19.2	96	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	22.2	111	54-148	
1,2,4-Trimethylbenzene	20.0	21.3	106	66-129	
Vinyl acetate	20.0	21.6	108	44-160	
Vinyl chloride	20.0	25.2	126	61-134	
Xylenes, Total	40.0	40.0	100	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX994000.D

Lab ID: LCS 240-477127/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	40.0	43.5	109	33-155	
Benzene	20.0	19.9	100	77-123	
Bromobenzene	20.0	20.7	103	77-120	
Bromochloromethane	20.0	18.6	93	70-128	
Bromodichloromethane	20.0	19.6	98	73-122	
Bromoform	20.0	20.4	102	47-133	
Bromomethane	20.0	16.0	80	48-144	
2-Butanone	40.0	48.5	121	41-151	
Carbon disulfide	20.0	20.0	100	67-127	
Carbon tetrachloride	20.0	19.4	97	61-142	
Chlorobenzene	20.0	19.3	97	80-120	
Chloroethane	20.0	16.9	84	41-147	
2-Chloroethyl vinyl ether	20.0	23.2	116	29-146	
Chloroform	20.0	18.5	93	74-127	
Chloromethane	20.0	16.2	81	46-148	
2-Chlorotoluene	20.0	19.3	97	73-126	
4-Chlorotoluene	20.0	20.3	102	73-126	
cis-1,2-Dichloroethene	20.0	19.1	96	75-124	
cis-1,3-Dichloropropene	20.0	21.4	107	68-128	
Dibromochloromethane	20.0	19.1	96	75-120	
1,2-Dibromo-3-Chloropropane	20.0	18.0	90	34-136	
1,2-Dibromoethane	20.0	20.4	102	73-120	
Dibromomethane	20.0	20.3	101	67-121	
1,2-Dichlorobenzene	20.0	18.3	92	74-120	
1,3-Dichlorobenzene	20.0	18.9	95	74-120	
1,4-Dichlorobenzene	20.0	19.5	98	75-120	
Dichlorodifluoromethane	20.0	16.0	80	35-137	
1,1-Dichloroethane	20.0	19.0	95	74-126	
1,2-Dichloroethane	20.0	18.6	93	66-129	
1,1-Dichloroethene	20.0	19.0	95	73-129	
1,2-Dichloropropane	20.0	21.3	107	79-127	
1,3-Dichloropropane	20.0	19.6	98	74-122	
2,2-Dichloropropane	20.0	18.9	95	67-137	
1,1-Dichloropropene	20.0	20.1	101	78-120	
Ethylbenzene	20.0	20.1	100	80-120	
Hexachlorobutadiene	20.0	18.0	90	40-120	
2-Hexanone	40.0	44.8	112	43-142	
Isopropylbenzene	20.0	19.3	97	73-123	
Methylene Chloride	20.0	17.4	87	63-134	
4-Methyl-2-pentanone	40.0	42.2	106	43-145	
Methyl tert-butyl ether	20.0	19.4	97	57-127	
m-Xylene & p-Xylene	20.0	19.9	100	79-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX994000.D

Lab ID: LCS 240-477127/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	17.8	89	28-130	
n-Butylbenzene	20.0	19.0	95	54-129	
n-Propylbenzene	20.0	20.0	100	67-130	
o-Xylene	20.0	19.4	97	75-123	
p-Isopropyltoluene	20.0	19.5	98	66-127	
sec-Butylbenzene	20.0	19.6	98	60-131	
Styrene	20.0	20.7	103	75-121	
tert-Butyl alcohol	200	191	96	15-169	
tert-Butylbenzene	20.0	18.4	92	63-126	
1,1,1,2-Tetrachloroethane	20.0	18.5	92	77-120	
1,1,2,2-Tetrachloroethane	20.0	19.9	99	45-151	
Tetrachloroethene	20.0	19.9	100	70-125	
Toluene	20.0	19.3	96	79-122	
trans-1,2-Dichloroethene	20.0	19.4	97	74-130	
trans-1,3-Dichloropropene	20.0	19.3	96	64-120	
1,2,3-Trichlorobenzene	20.0	17.3	86	42-126	
1,2,4-Trichlorobenzene	20.0	17.5	88	47-120	
1,1,1-Trichloroethane	20.0	19.2	96	65-141	
Trichloroethene	20.0	19.8	99	71-121	
Trichlorofluoromethane	20.0	16.2	81	52-148	
1,2,3-Trichloropropane	20.0	20.2	101	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	20.8	104	54-148	
1,2,4-Trimethylbenzene	20.0	19.7	98	66-129	
Vinyl acetate	20.0	25.0	125	44-160	
Vinyl chloride	20.0	17.8	89	61-134	
Xylenes, Total	40.0	39.3	98	78-122	

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35615.D

Lab ID: LCSD 240-476369/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	40.0	34.5	86	4	35	33-155	
Benzene	20.0	19.4	97	8	35	77-123	
Bromobenzene	20.0	20.1	100	7	35	77-120	
Bromochloromethane	20.0	19.8	99	9	35	70-128	
Bromodichloromethane	20.0	19.6	98	11	35	73-122	
Bromoform	20.0	16.5	83	7	35	47-133	
Bromomethane	20.0	18.1	91	1	35	48-144	
2-Butanone	40.0	31.3	78	1	35	41-151	
Carbon disulfide	20.0	17.5	87	10	35	67-127	
Carbon tetrachloride	20.0	19.7	99	11	35	61-142	
Chlorobenzene	20.0	19.5	98	10	35	80-120	
Chloroethane	20.0	21.0	105	3	35	41-147	
2-Chloroethyl vinyl ether	20.0	14.7	74	9	35	29-146	
Chloroform	20.0	19.6	98	11	35	74-127	
Chloromethane	20.0	21.4	107	9	35	46-148	
2-Chlorotoluene	20.0	20.2	101	8	35	73-126	
4-Chlorotoluene	20.0	20.7	104	5	35	73-126	
cis-1,2-Dichloroethene	20.0	20.6	103	8	35	75-124	
cis-1,3-Dichloropropene	20.0	18.1	90	10	35	68-128	
Dibromochloromethane	20.0	18.9	94	10	35	75-120	
1,2-Dibromo-3-Chloropropane	20.0	16.9	84	4	35	34-136	
1,2-Dibromoethane	20.0	18.2	91	8	35	73-120	
Dibromomethane	20.0	19.1	95	8	35	67-121	
1,2-Dichlorobenzene	20.0	19.3	96	5	35	74-120	
1,3-Dichlorobenzene	20.0	19.6	98	7	35	74-120	
1,4-Dichlorobenzene	20.0	20.0	100	6	35	75-120	
Dichlorodifluoromethane	20.0	23.2	116	6	35	35-137	
1,1-Dichloroethane	20.0	19.9	100	9	35	74-126	
1,2-Dichloroethane	20.0	19.0	95	12	35	66-129	
1,1-Dichloroethene	20.0	19.6	98	10	35	73-129	
1,2-Dichloropropane	20.0	20.0	100	8	35	79-127	
1,3-Dichloropropane	20.0	18.6	93	8	35	74-122	
2,2-Dichloropropane	20.0	20.4	102	9	35	67-137	
1,1-Dichloropropene	20.0	19.4	97	10	35	78-120	
Ethylbenzene	20.0	20.0	100	9	35	80-120	
Hexachlorobutadiene	20.0	19.6	98	3	35	40-120	
2-Hexanone	40.0	33.2	83	7	35	43-142	
Isopropylbenzene	20.0	20.8	104	10	35	73-123	
Methylene Chloride	20.0	18.6	93	10	35	63-134	
4-Methyl-2-pentanone	40.0	31.8	79	7	35	43-145	
Methyl tert-butyl ether	20.0	17.2	86	9	35	57-127	
m-Xylene & p-Xylene	20.0	20.1	101	9	35	79-121	

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35615.D

Lab ID: LCSD 240-476369/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	20.0	19.1	96	3	35	28-130	
n-Butylbenzene	20.0	20.7	103	4	35	54-129	
n-Propylbenzene	20.0	21.0	105	6	35	67-130	
o-Xylene	20.0	20.1	101	9	35	75-123	
p-Isopropyltoluene	20.0	21.3	107	5	35	66-127	
sec-Butylbenzene	20.0	21.4	107	5	35	60-131	
Styrene	20.0	18.0	90	9	35	75-121	
tert-Butyl alcohol	200	157	79	6	35	15-169	
tert-Butylbenzene	20.0	20.9	105	7	35	63-126	
1,1,1,2-Tetrachloroethane	20.0	18.7	94	7	35	77-120	
1,1,2,2-Tetrachloroethane	20.0	17.6	88	2	35	45-151	
Tetrachloroethene	20.0	20.4	102	6	35	70-125	
Toluene	20.0	19.8	99	9	35	79-122	
trans-1,2-Dichloroethene	20.0	19.7	99	9	35	74-130	
trans-1,3-Dichloropropene	20.0	16.4	82	10	35	64-120	
1,2,3-Trichlorobenzene	20.0	19.5	98	2	35	42-126	
1,2,4-Trichlorobenzene	20.0	19.4	97	1	35	47-120	
1,1,1-Trichloroethane	20.0	20.0	100	10	35	65-141	
Trichloroethene	20.0	18.6	93	11	35	71-121	
Trichlorofluoromethane	20.0	23.9	120	3	35	52-148	
1,2,3-Trichloropropane	20.0	17.4	87	5	35	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	22.6	113	11	35	54-148	
1,2,4-Trimethylbenzene	20.0	20.4	102	6	35	66-129	
Vinyl acetate	20.0	15.5	78	9	35	44-160	
Vinyl chloride	20.0	23.3	116	9	35	61-134	
Xylenes, Total	40.0	40.2	101	9	35	78-122	

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35688.D

Lab ID: LCSD 240-476975/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	40.0	38.5	96	6	35	33-155	
Benzene	20.0	20.2	101	0	35	77-123	
Bromobenzene	20.0	19.4	97	4	35	77-120	
Bromochloromethane	20.0	19.2	96	2	35	70-128	
Bromodichloromethane	20.0	20.6	103	1	35	73-122	
Bromoform	20.0	17.6	88	4	35	47-133	
Bromomethane	20.0	18.9	94	9	35	48-144	
2-Butanone	40.0	36.3	91	8	35	41-151	
Carbon disulfide	20.0	19.4	97	0	35	67-127	
Carbon tetrachloride	20.0	19.6	98	4	35	61-142	
Chlorobenzene	20.0	19.9	100	2	35	80-120	
Chloroethane	20.0	20.8	104	10	35	41-147	
2-Chloroethyl vinyl ether	20.0	17.4	87	5	35	29-146	
Chloroform	20.0	20.3	102	1	35	74-127	
Chloromethane	20.0	21.3	106	10	35	46-148	
2-Chlorotoluene	20.0	20.8	104	1	35	73-126	
4-Chlorotoluene	20.0	21.4	107	1	35	73-126	
cis-1,2-Dichloroethene	20.0	20.2	101	2	35	75-124	
cis-1,3-Dichloropropene	20.0	19.8	99	3	35	68-128	
Dibromochloromethane	20.0	19.0	95	3	35	75-120	
1,2-Dibromo-3-Chloropropane	20.0	18.4	92	7	35	34-136	
1,2-Dibromoethane	20.0	19.1	96	3	35	73-120	
Dibromomethane	20.0	19.1	96	0	35	67-121	
1,2-Dichlorobenzene	20.0	18.8	94	2	35	74-120	
1,3-Dichlorobenzene	20.0	19.2	96	2	35	74-120	
1,4-Dichlorobenzene	20.0	19.6	98	1	35	75-120	
Dichlorodifluoromethane	20.0	19.5	98	7	35	35-137	
1,1-Dichloroethane	20.0	21.7	108	1	35	74-126	
1,2-Dichloroethane	20.0	20.7	104	2	35	66-129	
1,1-Dichloroethene	20.0	20.6	103	5	35	73-129	
1,2-Dichloropropane	20.0	22.3	111	1	35	79-127	
1,3-Dichloropropane	20.0	21.2	106	2	35	74-122	
2,2-Dichloropropane	20.0	21.5	108	2	35	67-137	
1,1-Dichloropropene	20.0	20.8	104	1	35	78-120	
Ethylbenzene	20.0	20.3	102	1	35	80-120	
Hexachlorobutadiene	20.0	20.1	101	2	35	40-120	
2-Hexanone	40.0	43.1	108	7	35	43-142	
Isopropylbenzene	20.0	21.4	107	3	35	73-123	
Methylene Chloride	20.0	19.2	96	0	35	63-134	
4-Methyl-2-pentanone	40.0	40.2	101	7	35	43-145	
Methyl tert-butyl ether	20.0	19.2	96	4	35	57-127	
m-Xylene & p-Xylene	20.0	20.6	103	3	35	79-121	

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UXM35688.D

Lab ID: LCSD 240-476975/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	20.0	20.0	100	6	35	28-130	
n-Butylbenzene	20.0	22.3	112	0	35	54-129	
n-Propylbenzene	20.0	21.5	108	2	35	67-130	
o-Xylene	20.0	20.6	103	3	35	75-123	
p-Isopropyltoluene	20.0	21.6	108	1	35	66-127	
sec-Butylbenzene	20.0	22.3	111	1	35	60-131	
Styrene	20.0	18.7	93	3	35	75-121	
tert-Butyl alcohol	200	199	99	8	35	15-169	
tert-Butylbenzene	20.0	21.3	107	2	35	63-126	
1,1,1,2-Tetrachloroethane	20.0	19.0	95	0	35	77-120	
1,1,2,2-Tetrachloroethane	20.0	19.8	99	6	35	45-151	
Tetrachloroethene	20.0	19.4	97	1	35	70-125	
Toluene	20.0	21.0	105	2	35	79-122	
trans-1,2-Dichloroethene	20.0	20.2	101	1	35	74-130	
trans-1,3-Dichloropropene	20.0	18.8	94	5	35	64-120	
1,2,3-Trichlorobenzene	20.0	19.9	100	6	35	42-126	
1,2,4-Trichlorobenzene	20.0	19.7	99	3	35	47-120	
1,1,1-Trichloroethane	20.0	20.1	101	2	35	65-141	
Trichloroethene	20.0	18.2	91	2	35	71-121	
Trichlorofluoromethane	20.0	21.8	109	6	35	52-148	
1,2,3-Trichloropropane	20.0	18.7	94	3	35	57-137	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	22.8	114	3	35	54-148	
1,2,4-Trimethylbenzene	20.0	21.0	105	1	35	66-129	
Vinyl acetate	20.0	20.2	101	7	35	44-160	
Vinyl chloride	20.0	23.6	118	6	35	61-134	
Xylenes, Total	40.0	41.2	103	3	35	78-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX994019.D

Lab ID: 240-145830-A-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	400	100 U	422	106	32-157	
Benzene	200	10 U	185	93	70-121	
Bromobenzene	200	10 U	184	92	66-120	
Bromodichloromethane	200	10 U	181	90	69-120	
Bromoform	200	10 U	180	90	41-128	
Bromomethane	200	10 U	171	85	41-136	
2-Butanone	400	100 U	445	111	40-147	
Carbon disulfide	200	10 U	181	90	54-131	
Carbon tetrachloride	200	10 U	174	87	53-142	
Chlorobenzene	200	10 U	172	86	73-120	
Chloroethane	200	10 U	176	88	37-142	
Chloroform	200	1.7 J	175	87	66-126	
Chloromethane	200	10 U	166	83	33-146	
2-Chlorotoluene	200	10 U	172	86	50-130	
4-Chlorotoluene	200	10 U	177	88	49-133	
cis-1,2-Dichloroethene	200	10 U	181	90	68-121	
cis-1,3-Dichloropropene	200	10 U	188	94	56-121	
Dibromochloromethane	200	10 U	170	85	66-120	
1,2-Dibromo-3-Chloropropane	200	20 U	168	84	31-130	
1,2-Dibromoethane	200	10 U	185	92	66-120	
1,2-Dichlorobenzene	200	10 U	165	83	65-120	
1,3-Dichlorobenzene	200	10 U	167	84	64-120	
1,4-Dichlorobenzene	200	10 U	173	87	65-120	
Dichlorodifluoromethane	200	10 U	152	76	27-132	
1,1-Dichloroethane	200	10 U	179	90	71-121	
1,2-Dichloroethane	200	10 U	174	87	65-127	
1,1-Dichloroethene	200	10 U	173	86	64-132	
1,2-Dichloropropane	200	10 U	193	96	73-125	
Ethylbenzene	200	10 U	178	89	66-122	
Hexachlorobutadiene	200	10 U	157	78	17-120	
2-Hexanone	400	100 U	410	102	44-142	
Isopropylbenzene	200	10 U	170	85	56-122	
Methylene Chloride	200	50 U	163	82	59-127	
4-Methyl-2-pentanone	400	100 U	394	98	40-147	
Methyl tert-butyl ether	200	10 U	185	93	50-126	
m-Xylene & p-Xylene	200	20 U	175	87	65-123	
Naphthalene	200	10 U	166	83	30-125	
n-Butylbenzene	200	10 U	161	80	27-135	
n-Propylbenzene	200	10 U	175	88	40-136	
o-Xylene	200	10 U	173	86	63-124	
p-Isopropyltoluene	200	10 U	169	84	39-133	
sec-Butylbenzene	200	10 U	171	86	32-139	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX994019.D

Lab ID: 240-145830-A-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Styrene	200	10 U	181	91	57-126	
tert-Butylbenzene	200	10 U	161	81	36-133	
1,1,2,2-Tetrachloroethane	200	10 U	190	95	37-149	
Tetrachloroethene	200	10 U	171	86	52-129	
Toluene	200	10 U	173	87	68-124	
trans-1,2-Dichloroethene	200	10 U	182	91	69-126	
trans-1,3-Dichloropropene	200	10 U	171	86	53-120	
1,2,3-Trichlorobenzene	200	10 U	160	80	32-122	
1,2,4-Trichlorobenzene	200	10 U	159	80	37-120	
1,1,1-Trichloroethane	200	10 U	174	87	62-135	
Trichloroethene	200	430	545	56	56-124	
Trichlorofluoromethane	200	10 U	161	81	45-152	
1,1,2-Trichloro-1,2,2-trichfluoroethane	200	10 U	185	92	41-145	
1,2,4-Trimethylbenzene	200	10 U	173	86	49-120	
Vinyl chloride	200	10 U	180	90	49-136	
Xylenes, Total	400	20 U	348	87	64-124	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX994020.D

Lab ID: 240-145830-A-2 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	400	458	115	8	35	32-157	
Benzene	200	197	98	6	35	70-121	
Bromobenzene	200	198	99	7	11	66-120	
Bromodichloromethane	200	197	99	9	35	69-120	
Bromoform	200	203	102	12	35	41-128	
Bromomethane	200	160	80	6	35	41-136	
2-Butanone	400	470	117	5	35	40-147	
Carbon disulfide	200	199	100	10	35	54-131	
Carbon tetrachloride	200	187	94	7	35	53-142	
Chlorobenzene	200	189	94	9	35	73-120	
Chloroethane	200	167	84	5	35	37-142	
Chloroform	200	188	93	7	35	66-126	
Chloromethane	200	161	81	3	35	33-146	
2-Chlorotoluene	200	183	91	6	18	50-130	
4-Chlorotoluene	200	189	94	7	16	49-133	
cis-1,2-Dichloroethene	200	193	97	7	35	68-121	
cis-1,3-Dichloropropene	200	206	103	9	35	56-121	
Dibromochloromethane	200	191	95	11	35	66-120	
1,2-Dibromo-3-Chloropropane	200	179	89	6	35	31-130	
1,2-Dibromoethane	200	202	101	9	35	66-120	
1,2-Dichlorobenzene	200	173	87	5	35	65-120	
1,3-Dichlorobenzene	200	179	89	7	35	64-120	
1,4-Dichlorobenzene	200	185	93	7	35	65-120	
Dichlorodifluoromethane	200	148	74	3	35	27-132	
1,1-Dichloroethane	200	193	96	7	35	71-121	
1,2-Dichloroethane	200	186	93	7	35	65-127	
1,1-Dichloroethene	200	186	93	8	35	64-132	
1,2-Dichloropropane	200	208	104	8	35	73-125	
Ethylbenzene	200	190	95	6	35	66-122	
Hexachlorobutadiene	200	170	85	8	35	17-120	
2-Hexanone	400	457	114	11	35	44-142	
Isopropylbenzene	200	181	91	7	20	56-122	
Methylene Chloride	200	175	88	7	32	59-127	
4-Methyl-2-pentanone	400	425	106	8	35	40-147	
Methyl tert-butyl ether	200	196	98	6	17	50-126	
m-Xylene & p-Xylene	200	192	96	9	35	65-123	
Naphthalene	200	169	85	2	24	30-125	
n-Butylbenzene	200	173	87	8	24	27-135	
n-Propylbenzene	200	186	93	6	18	40-136	
o-Xylene	200	186	93	7	35	63-124	
p-Isopropyltoluene	200	178	89	6	22	39-133	
sec-Butylbenzene	200	181	90	5	24	32-139	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Matrix: Water Level: Low Lab File ID: UX994020.D

Lab ID: 240-145830-A-2 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	200	199	100	10	35	57-126	
tert-Butylbenzene	200	194	97	18	23	36-133	
1,1,2,2-Tetrachloroethane	200	202	101	6	35	37-149	
Tetrachloroethene	200	185	93	8	35	52-129	
Toluene	200	187	93	8	35	68-124	
trans-1,2-Dichloroethene	200	192	96	6	35	69-126	
trans-1,3-Dichloropropene	200	189	95	10	35	53-120	
1,2,3-Trichlorobenzene	200	162	81	1	24	32-122	
1,2,4-Trichlorobenzene	200	164	82	3	25	37-120	
1,1,1-Trichloroethane	200	186	93	6	35	62-135	
Trichloroethene	200	524	45	4	35	56-124	F1
Trichlorofluoromethane	200	154	77	4	35	45-152	
1,1,2-Trichloro-1,2,2-trichfluoroethane	200	191	96	3	35	41-145	
1,2,4-Trimethylbenzene	200	186	93	7	16	49-120	
Vinyl chloride	200	172	86	4	35	49-136	
Xylenes, Total	400	378	95	8	35	64-124	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: UXM35613.D Lab Sample ID: MB 240-476369/8

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

Instrument ID: A3UX16 Date Analyzed: 03/11/2021 11:11

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-476369/5	UXM35610.D	03/11/2021 09:57
	LCSD 240-476369/10	UXM35615.D	03/11/2021 12:00
MSA-SW37A-030821	240-145599-1	UXM35616.D	03/11/2021 12:25
MSA-SW37B-030821	240-145599-2	UXM35617.D	03/11/2021 12:49
MSA-SW37C-030821	240-145599-3	UXM35618.D	03/11/2021 13:24
MSA-SW37D-030821	240-145599-4	UXM35619.D	03/11/2021 13:48
MSA-SW38A-030821	240-145599-5	UXM35620.D	03/11/2021 14:13
MSA-SW38B-030821	240-145599-6	UXM35621.D	03/11/2021 14:37
MSA-SW38C-030821	240-145599-7	UXM35622.D	03/11/2021 15:02
MSA-SW38D-030821	240-145599-8	UXM35623.D	03/11/2021 15:27
MSA-SW40A-030821	240-145599-9	UXM35624.D	03/11/2021 15:51
MSA-SW40B-030821	240-145599-10	UXM35625.D	03/11/2021 16:16
MSA-SW40C-030821	240-145599-11	UXM35626.D	03/11/2021 16:41
MSA-SW40D-030821	240-145599-12	UXM35627.D	03/11/2021 17:05
MSA-SW41A-030821	240-145599-13	UXM35628.D	03/11/2021 17:30
MSA-SW41B-030821	240-145599-14	UXM35629.D	03/11/2021 17:54
MSA-SW41C-030821	240-145599-15	UXM35630.D	03/11/2021 18:19
MSA-SW41D-030821	240-145599-16	UXM35631.D	03/11/2021 18:43

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: U1920964.d Lab Sample ID: MB 240-476858/8

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

Instrument ID: A3UX19 Date Analyzed: 03/15/2021 20:55

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-476858/5	U1920961.d	03/15/2021 19:29
MSA-SW42D-030821	240-145599-20	U1920973.d	03/16/2021 01:05
MSA-SW43A-030821	240-145599-21	U1920974.d	03/16/2021 01:34
MSA-SW43B-030821	240-145599-22	U1920975.d	03/16/2021 02:09
MSA-SW43C-030821	240-145599-23	U1920976.d	03/16/2021 02:36
MSA-SW43D-030821	240-145599-24	U1920977.d	03/16/2021 03:06
MSA-SW44A-030821	240-145599-25	U1920978.d	03/16/2021 03:36
MSA-SW44B-030821	240-145599-26	U1920979.d	03/16/2021 04:06
MSA-SW44C-030821	240-145599-27	U1920980.d	03/16/2021 04:37
MSA-SW44D-030821	240-145599-28	U1920981.d	03/16/2021 05:17
TB-030821	240-145599-29	U1920982.d	03/16/2021 05:48

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: UXM35686.D Lab Sample ID: MB 240-476975/8

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

Instrument ID: A3UX16 Date Analyzed: 03/16/2021 12:42

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-476975/5	UXM35683.D	03/16/2021 11:28
	LCSD 240-476975/10	UXM35688.D	03/16/2021 13:32
MSA-SW42A-030821	240-145599-17	UXM35689.D	03/16/2021 13:57
MSA-SW42B-030821	240-145599-18	UXM35690.D	03/16/2021 14:21
MSA-SW42C-030821	240-145599-19	UXM35691.D	03/16/2021 14:46
MSA-SW46A-030821	240-145599-30	UXM35692.D	03/16/2021 15:10
MSA-SW47A-030821	240-145599-31	UXM35693.D	03/16/2021 15:35
MSA-SW48A-030821	240-145599-32	UXM35694.D	03/16/2021 15:59
MSA-SW49A-030821	240-145599-33	UXM35695.D	03/16/2021 16:24

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: UX993998.D Lab Sample ID: MB 240-477127/8

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

Instrument ID: A3UX9 Date Analyzed: 03/17/2021 09:50

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-477127/10	UX994000.D	03/17/2021 10:36
MSA-SW42A-030821	240-145599-17	UX994003.D	03/17/2021 12:01
MSA-SW42B-030821	240-145599-18	UX994004.D	03/17/2021 12:23
MSA-SW42C-030821	240-145599-19	UX994005.D	03/17/2021 12:46
MSA-SW46A-030821	240-145599-30	UX994006.D	03/17/2021 13:08
	240-145830-A-2 MS	UX994019.D	03/17/2021 18:02
	240-145830-A-2 MSD	UX994020.D	03/17/2021 18:25

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: BFB6489.D BFB Injection Date: 09/08/2020

Instrument ID: A3UX16 BFB Injection Time: 11:23

Analysis Batch No.: 450378

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.6	
75	30.0 - 60.0 % of mass 95	48.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	86.4	
175	5.0 - 9.0 % of mass 174	6.5	(7.6) 1
176	95.0 - 101.0 % of mass 174	83.4	(96.5) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-450378/9	UXM31022.D	09/08/2020	12:22
	STD8260 240-450378/10	UXM31023.D	09/08/2020	12:47
	STD8260 240-450378/11	UXM31024.D	09/08/2020	13:12
	ICIS 240-450378/12	UXM31025.D	09/08/2020	13:36
	STD8260 240-450378/13	UXM31026.D	09/08/2020	14:01
	STD8260 240-450378/14	UXM31027.D	09/08/2020	14:26
	STD8260 240-450378/15	UXM31028.D	09/08/2020	14:50
	ICV 240-450378/16	UXM31029.D	09/08/2020	15:15
	STDA9 240-450378/19	UXM31032.D	09/08/2020	16:30
	STDA9 240-450378/20	UXM31033.D	09/08/2020	16:55
	STDA9 240-450378/21	UXM31034.D	09/08/2020	17:19
	STDA9 240-450378/22	UXM31035.D	09/08/2020	17:44
	STDA9 240-450378/23	UXM31036.D	09/08/2020	18:09
	STDA9 240-450378/24	UXM31037.D	09/08/2020	18:33
	ICV 240-450378/25	UXM31038.D	09/08/2020	18:58

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: BFB6644.D BFB Injection Date: 03/11/2021

Instrument ID: A3UX16 BFB Injection Time: 08:44

Analysis Batch No.: 476369

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	46.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	83.6	
175	5.0 - 9.0 % of mass 174	6.2	(7.4) 1
176	95.0 - 101.0 % of mass 174	79.6	(95.1) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-476369/3	UXM35608.D	03/11/2021	9:08
	CCV 240-476369/4	UXM35609.D	03/11/2021	9:32
	LCS 240-476369/5	UXM35610.D	03/11/2021	9:57
	MB 240-476369/8	UXM35613.D	03/11/2021	11:11
	LCSD 240-476369/10	UXM35615.D	03/11/2021	12:00
MSA-SW37A-030821	240-145599-1	UXM35616.D	03/11/2021	12:25
MSA-SW37B-030821	240-145599-2	UXM35617.D	03/11/2021	12:49
MSA-SW37C-030821	240-145599-3	UXM35618.D	03/11/2021	13:24
MSA-SW37D-030821	240-145599-4	UXM35619.D	03/11/2021	13:48
MSA-SW38A-030821	240-145599-5	UXM35620.D	03/11/2021	14:13
MSA-SW38B-030821	240-145599-6	UXM35621.D	03/11/2021	14:37
MSA-SW38C-030821	240-145599-7	UXM35622.D	03/11/2021	15:02
MSA-SW38D-030821	240-145599-8	UXM35623.D	03/11/2021	15:27
MSA-SW40A-030821	240-145599-9	UXM35624.D	03/11/2021	15:51
MSA-SW40B-030821	240-145599-10	UXM35625.D	03/11/2021	16:16
MSA-SW40C-030821	240-145599-11	UXM35626.D	03/11/2021	16:41
MSA-SW40D-030821	240-145599-12	UXM35627.D	03/11/2021	17:05
MSA-SW41A-030821	240-145599-13	UXM35628.D	03/11/2021	17:30
MSA-SW41B-030821	240-145599-14	UXM35629.D	03/11/2021	17:54
MSA-SW41C-030821	240-145599-15	UXM35630.D	03/11/2021	18:19
MSA-SW41D-030821	240-145599-16	UXM35631.D	03/11/2021	18:43

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: BFB6646.D BFB Injection Date: 03/16/2021

Instrument ID: A3UX16 BFB Injection Time: 10:14

Analysis Batch No.: 476975

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.1	
75	30.0 - 60.0 % of mass 95	46.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	82.2	
175	5.0 - 9.0 % of mass 174	5.6	(6.8) 1
176	95.0 - 101.0 % of mass 174	80.3	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-476975/3	UXM35681.D	03/16/2021	10:39
	CCV 240-476975/4	UXM35682.D	03/16/2021	11:04
	LCS 240-476975/5	UXM35683.D	03/16/2021	11:28
	MB 240-476975/8	UXM35686.D	03/16/2021	12:42
	LCSD 240-476975/10	UXM35688.D	03/16/2021	13:32
MSA-SW42A-030821	240-145599-17	UXM35689.D	03/16/2021	13:57
MSA-SW42B-030821	240-145599-18	UXM35690.D	03/16/2021	14:21
MSA-SW42C-030821	240-145599-19	UXM35691.D	03/16/2021	14:46
MSA-SW46A-030821	240-145599-30	UXM35692.D	03/16/2021	15:10
MSA-SW47A-030821	240-145599-31	UXM35693.D	03/16/2021	15:35
MSA-SW48A-030821	240-145599-32	UXM35694.D	03/16/2021	15:59
MSA-SW49A-030821	240-145599-33	UXM35695.D	03/16/2021	16:24

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: bfb037.d BFB Injection Date: 07/25/2018

Instrument ID: A3UX19 BFB Injection Time: 11:28

Analysis Batch No.: 337917

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	52.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	1.1	(1.3) 1
174	Greater than 50% of mass 95	82.7	
175	5.0 - 9.0 % of mass 174	6.4	(7.8) 1
176	95.0 - 101.0 % of mass 174	80.3	(97.1) 1
177	5.0 - 9.0 % of mass 176	5.2	(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
	STDA9 240-337917/8	U1900802.d	07/25/2018	13:24
	STDA9 240-337917/9	U1900803.d	07/25/2018	13:46
	STDA9 240-337917/10	U1900804.d	07/25/2018	14:08
	STDA9 240-337917/11	U1900805.d	07/25/2018	14:30
	STDA9 240-337917/12	U1900806.d	07/25/2018	14:52
	STDA9 240-337917/13	U1900807.d	07/25/2018	15:15

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: bfb058.d BFB Injection Date: 08/27/2018

Instrument ID: A3UX19 BFB Injection Time: 16:23

Analysis Batch No.: 342719

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	49.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.6	(0.6) 1
174	Greater than 50% of mass 95	94.9	
175	5.0 - 9.0 % of mass 174	7.3	(7.7) 1
176	95.0 - 101.0 % of mass 174	92.7	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-342719/7	U1901323.d	08/27/2018	17:09
	STD8260 240-342719/8	U1901324.d	08/27/2018	17:31
	STD8260 240-342719/9	U1901325.d	08/27/2018	17:53
	ICIS 240-342719/10	U1901326.d	08/27/2018	18:16
	STD8260 240-342719/11	U1901327.d	08/27/2018	18:38
	STD8260 240-342719/12	U1901328.d	08/27/2018	19:01
	STD8260 240-342719/13	U1901329.d	08/27/2018	19:23
	ICV 240-342719/14	U1901330.d	08/27/2018	19:45

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: bfb766.d BFB Injection Date: 03/15/2021

Instrument ID: A3UX19 BFB Injection Time: 18:13

Analysis Batch No.: 476858

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.8	
75	30.0 - 60.0 % of mass 95	49.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	78.7	
175	5.0 - 9.0 % of mass 174	6.8	(8.7) 1
176	95.0 - 101.0 % of mass 174	76.0	(96.6) 1
177	5.0 - 9.0 % of mass 176	5.0	(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
	CCV 240-476858/3	U1920959.d	03/15/2021	18:42
	CCVIS 240-476858/4	U1920960.d	03/15/2021	19:04
	LCS 240-476858/5	U1920961.d	03/15/2021	19:29
	MB 240-476858/8	U1920964.d	03/15/2021	20:55
MSA-SW42D-030821	240-145599-20	U1920973.d	03/16/2021	1:05
MSA-SW43A-030821	240-145599-21	U1920974.d	03/16/2021	1:34
MSA-SW43B-030821	240-145599-22	U1920975.d	03/16/2021	2:09
MSA-SW43C-030821	240-145599-23	U1920976.d	03/16/2021	2:36
MSA-SW43D-030821	240-145599-24	U1920977.d	03/16/2021	3:06
MSA-SW44A-030821	240-145599-25	U1920978.d	03/16/2021	3:36
MSA-SW44B-030821	240-145599-26	U1920979.d	03/16/2021	4:06
MSA-SW44C-030821	240-145599-27	U1920980.d	03/16/2021	4:37
MSA-SW44D-030821	240-145599-28	U1920981.d	03/16/2021	5:17
TB-030821	240-145599-29	U1920982.d	03/16/2021	5:48

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: BFB1164.D BFB Injection Date: 01/07/2021

Instrument ID: A3UX9 BFB Injection Time: 11:58

Analysis Batch No.: 468309

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.3	
75	30.0 - 60.0 % of mass 95	52.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	79.4	
175	5.0 - 9.0 % of mass 174	5.9	(7.5) 1
176	95.0 - 101.0 % of mass 174	77.6	(97.7) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-468309/8	UX992599.D	01/07/2021	12:44
	STD8260 240-468309/9	UX992600.D	01/07/2021	13:07
	STD8260 240-468309/10	UX992601.D	01/07/2021	13:29
	ICIS 240-468309/11	UX992602.D	01/07/2021	13:52
	STD8260 240-468309/12	UX992603.D	01/07/2021	14:14
	STD8260 240-468309/13	UX992604.D	01/07/2021	14:37
	STD8260 240-468309/14	UX992605.D	01/07/2021	14:59
	ICV 240-468309/15	UX992606.D	01/07/2021	15:22
	STDA9 240-468309/18	UX992609.D	01/07/2021	16:28
	STDA9 240-468309/19	UX992610.D	01/07/2021	16:51
	STDA9 240-468309/20	UX992611.D	01/07/2021	17:13
	STDA9 240-468309/21	UX992612.D	01/07/2021	17:36
	STDA9 240-468309/22	UX992613.D	01/07/2021	17:58
	STDA9 240-468309/23	UX992614.D	01/07/2021	18:20
	ICV 240-468309/24	UX992615.D	01/07/2021	18:43

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab File ID: BFB1220.D BFB Injection Date: 03/17/2021

Instrument ID: A3UX9 BFB Injection Time: 07:33

Analysis Batch No.: 477127

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	47.7	
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	Greater than 50% of mass 95	83.8	
175	5.0 - 9.0 % of mass 174	6.1	(7.3) 1
176	95.0 - 101.0 % of mass 174	80.3	(95.9) 1
177	5.0 - 9.0 % of mass 176	5.1	(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 240-477127/3	UX993993.D	03/17/2021	7:58
	CCV 240-477127/4	UX993994.D	03/17/2021	8:21
	MB 240-477127/8	UX993998.D	03/17/2021	9:50
	LCS 240-477127/10	UX994000.D	03/17/2021	10:36
MSA-SW42A-030821	240-145599-17	UX994003.D	03/17/2021	12:01
MSA-SW42B-030821	240-145599-18	UX994004.D	03/17/2021	12:23
MSA-SW42C-030821	240-145599-19	UX994005.D	03/17/2021	12:46
MSA-SW46A-030821	240-145599-30	UX994006.D	03/17/2021	13:08
	240-145830-A-2 MS	UX994019.D	03/17/2021	18:02
	240-145830-A-2 MSD	UX994020.D	03/17/2021	18:25

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: ICIS 240-450378/12 Date Analyzed: 09/08/2020 13:36

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM31025.D Heated Purge: (Y/N) N

Calibration ID: 58341

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		955305	5.87	743399	8.60	412806	10.86
UPPER LIMIT		1910610	6.37	1486798	9.10	825612	11.36
LOWER LIMIT		477653	5.37	371700	8.10	206403	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-450378/16		937717	5.87	743116	8.60	412044	10.86
ICV 240-450378/25		909527	5.87	734035	8.60	394515	10.86
CCVIS 240-476369/3		1347751	5.87	1028829	8.59	583115	10.86
CCVIS 240-476975/3		1376920	5.87	997536	8.59	540906	10.86

FB = Fluorobenzene
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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: CCVIS 240-476369/3 Date Analyzed: 03/11/2021 09:08

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM35608.D Heated Purge: (Y/N) N

Calibration ID: 58345

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1347751	5.87	1028829	8.59	583115	10.86
UPPER LIMIT		2695502	6.37	2057658	9.09	1166230	11.36
LOWER LIMIT		673876	5.37	514415	8.09	291558	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-476369/4		1253494	5.87	997576	8.59	534232	10.86
LCS 240-476369/5		1324417	5.87	1018148	8.59	578451	10.86
MB 240-476369/8		1083755	5.87	904959	8.59	489217	10.86
LCSD 240-476369/10		1318008	5.87	1012291	8.59	561767	10.86
240-145599-1	MSA-SW37A-030821	1125278	5.87	958730	8.59	516451	10.86
240-145599-2	MSA-SW37B-030821	1055313	5.87	907724	8.59	485135	10.86
240-145599-3	MSA-SW37C-030821	1064918	5.87	916563	8.59	495564	10.86
240-145599-4	MSA-SW37D-030821	1075735	5.87	945027	8.59	508701	10.86
240-145599-5	MSA-SW38A-030821	1081452	5.87	919114	8.59	498153	10.86
240-145599-6	MSA-SW38B-030821	1067804	5.87	893251	8.59	487802	10.86
240-145599-7	MSA-SW38C-030821	1047958	5.87	905903	8.59	491957	10.86
240-145599-8	MSA-SW38D-030821	1153211	5.87	957018	8.59	514639	10.86
240-145599-9	MSA-SW40A-030821	1099575	5.87	931095	8.59	503983	10.86
240-145599-10	MSA-SW40B-030821	1051548	5.87	914014	8.59	491237	10.86
240-145599-11	MSA-SW40C-030821	1050124	5.87	895235	8.59	476825	10.86
240-145599-12	MSA-SW40D-030821	993978	5.87	861248	8.59	465014	10.86
240-145599-13	MSA-SW41A-030821	1117997	5.87	932514	8.59	521833	10.86
240-145599-14	MSA-SW41B-030821	1115235	5.87	913542	8.59	501514	10.86
240-145599-15	MSA-SW41C-030821	1042831	5.87	870402	8.59	478889	10.86
240-145599-16	MSA-SW41D-030821	1057411	5.87	900950	8.59	482415	10.86

FB = Fluorobenzene
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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: CCVIS 240-476975/3 Date Analyzed: 03/16/2021 10:39

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM35681.D Heated Purge: (Y/N) N

Calibration ID: 58345

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1376920	5.87	997536	8.59	540906	10.86
UPPER LIMIT		2753840	6.37	1995072	9.09	1081812	11.36
LOWER LIMIT		688460	5.37	498768	8.09	270453	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-476975/4		1270652	5.87	961236	8.59	517038	10.86
LCS 240-476975/5		1329759	5.87	981298	8.59	523399	10.86
MB 240-476975/8		1106161	5.87	897118	8.59	470923	10.86
LCSD 240-476975/10		1296000	5.87	954197	8.59	520261	10.86
240-145599-17	MSA-SW42A-030821	1115736	5.87	894670	8.59	462969	10.86
240-145599-18	MSA-SW42B-030821	1094195	5.87	879495	8.59	470607	10.86
240-145599-19	MSA-SW42C-030821	1000957	5.87	820783	8.59	434777	10.86
240-145599-30	MSA-SW46A-030821	1007683	5.87	823376	8.59	438664	10.86
240-145599-31	MSA-SW47A-030821	972661	5.87	850134	8.59	433079	10.86
240-145599-32	MSA-SW48A-030821	1061253	5.87	869364	8.59	456798	10.86
240-145599-33	MSA-SW49A-030821	977320	5.87	817418	8.59	424881	10.86

FB = Fluorobenzene
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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: ICIS 240-342719/10 Date Analyzed: 08/27/2018 18:16

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1901326.d Heated Purge: (Y/N) N

Calibration ID: 46687

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		972482	5.65	783101	8.50	430906	10.88
UPPER LIMIT		1944964	6.15	1566202	9.00	861812	11.38
LOWER LIMIT		486241	5.15	391551	8.00	215453	10.38
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-342719/14		955207	5.65	765531	8.50	424750	10.88
CCVIS 240-476858/4		912579	5.67	715484	8.50	374191	10.90

FB = Fluorobenzene
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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: CCVIS 240-476858/4 Date Analyzed: 03/15/2021 19:04

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1920960.d Heated Purge: (Y/N) N

Calibration ID: 57283

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		912579	5.67	715484	8.50	374191	10.90
UPPER LIMIT		1825158	6.17	1430968	9.00	748382	11.40
LOWER LIMIT		456290	5.17	357742	8.00	187096	10.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-476858/5		889891	5.67	715702	8.50	365666	10.90
MB 240-476858/8		849784	5.67	689429	8.50	337930	10.90
240-145599-20	MSA-SW42D-030821	824119	5.67	667834	8.50	315851	10.90
240-145599-21	MSA-SW43A-030821	842728	5.67	683308	8.50	328816	10.90
240-145599-22	MSA-SW43B-030821	815231	5.67	656507	8.50	309560	10.90
240-145599-23	MSA-SW43C-030821	815840	5.67	661648	8.50	319764	10.90
240-145599-24	MSA-SW43D-030821	798698	5.67	665875	8.50	318035	10.90
240-145599-25	MSA-SW44A-030821	804063	5.67	668677	8.50	328912	10.90
240-145599-26	MSA-SW44B-030821	799574	5.67	666323	8.50	311178	10.90
240-145599-27	MSA-SW44C-030821	783480	5.67	645435	8.50	316044	10.90
240-145599-28	MSA-SW44D-030821	797023	5.67	656970	8.50	315700	10.90
240-145599-29	TB-030821	802007	5.67	647457	8.50	308548	10.90

FB = Fluorobenzene
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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: ICIS 240-468309/11 Date Analyzed: 01/07/2021 13:52

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX992602.D Heated Purge: (Y/N) N

Calibration ID: 59891

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1096535	5.87	821576	8.56	476094	10.81
UPPER LIMIT		2193070	6.37	1643152	9.06	952188	11.31
LOWER LIMIT		548268	5.37	410788	8.06	238047	10.31
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-468309/15		1211297	5.87	961544	8.56	522141	10.81
ICV 240-468309/24		1065142	5.87	756350	8.56	441406	10.81
CCVIS 240-477127/3		1500243	5.87	1227023	8.56	661723	10.81

FB = Fluorobenzene
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 VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Sample No.: CCVIS 240-477127/3 Date Analyzed: 03/17/2021 07:58

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX993993.D Heated Purge: (Y/N) N

Calibration ID: 59895

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1500243	5.87	1227023	8.56	661723	10.81
UPPER LIMIT		3000486	6.37	2454046	9.06	1323446	11.31
LOWER LIMIT		750122	5.37	613512	8.06	330862	10.31
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-477127/4		1493499	5.86	1242571	8.56	642634	10.81
MB 240-477127/8		1469576	5.87	1196843	8.57	646042	10.81
LCS 240-477127/10		1526300	5.87	1241347	8.56	674751	10.81
240-145599-17	MSA-SW42A-030821	1452980	5.87	1174507	8.57	632716	10.81
240-145599-18	MSA-SW42B-030821	1399744	5.87	1135366	8.57	616753	10.81
240-145599-19	MSA-SW42C-030821	1416005	5.87	1132246	8.56	622521	10.81
240-145599-30	MSA-SW46A-030821	1429659	5.87	1153788	8.56	629755	10.81
240-145830-A-2 MS		1453142	5.87	1163386	8.57	633109	10.81
240-145830-A-2 MSD		1504678	5.87	1216646	8.57	670124	10.81

FB = Fluorobenzene
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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37A-030821 Lab Sample ID: 240-145599-1

Matrix: Water Lab File ID: UXM35616.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37A-030821 Lab Sample ID: 240-145599-1

Matrix: Water Lab File ID: UXM35616.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.14	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37A-030821 Lab Sample ID: 240-145599-1

Matrix: Water Lab File ID: UXM35616.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	102		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37A-030821 Lab Sample ID: 240-145599-1

Matrix: Water Lab File ID: UXM35616.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37A-030821 Lab Sample ID: 240-145599-1

Matrix: Water Lab File ID: UXM35616.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:54

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35616.D
Lims ID: 240-145599-A-1
Client ID: MSA-SW37A-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 12:25:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-011
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 13:22:37 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: bosworthh Date: 11-Mar-2021 13:22:37

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	1125278	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	85	958730	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	516451	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	310863	25.3	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	97	323863	24.4	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1125182	21.8	
$	7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	95	470095	25.3	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	7
	11 Vinyl chloride	62	2.027	2.027	0.000	93	2590	0.1360	
	13 Bromomethane	94	2.383	2.371	0.012	73	2815	0.2303	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.296	0.012	98	2385	2.37	
	24 Carbon disulfide	76		3.474				ND	7
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	U
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	58	2121	0.1457	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	95	8447	0.1405	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106		8.822				ND	
86 o-Xylene	106		9.190				ND	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	7
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

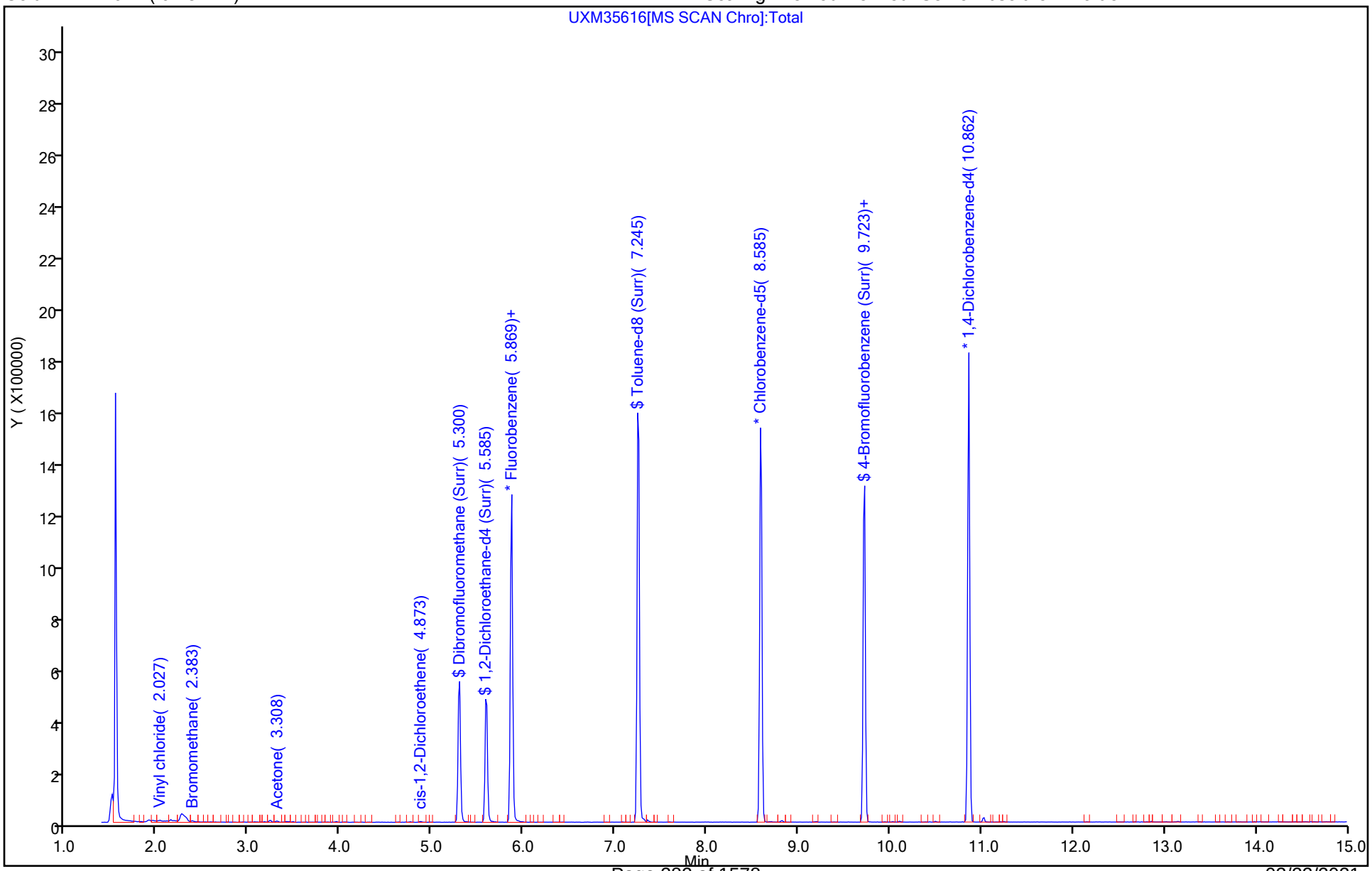
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 11-Mar-2021 13:22:38 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35616.D				
Injection Date:	11-Mar-2021 12:25:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-A-1	Lab Sample ID:	240-145599-1	Worklist Smp#:	11
Client ID:	MSA-SW37A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35616.D				
Lims ID:	240-145599-A-1				
Client ID:	MSA-SW37A-030821				
Sample Type:	Client				
Inject. Date:	11-Mar-2021 12:25:30	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107193-011				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	11-Mar-2021 13:22:37	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1649				

First Level Reviewer: bosworthh Date: 11-Mar-2021 13:22:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	25.3	101.71
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.4	97.89
$ 6 Toluene-d8 (Surr)	24.9	21.8	87.59
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.3	101.39

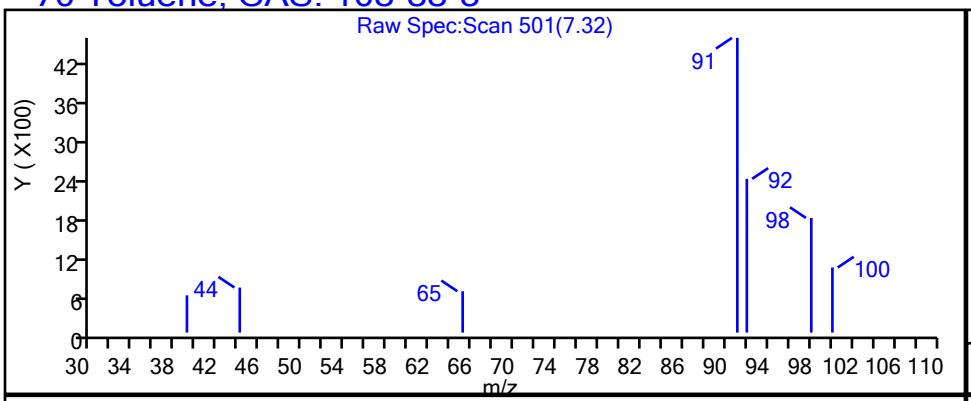
Report Date: 11-Mar-2021 13:22:38 Chrom Revision: 2.3 05-Feb-2021 00:13:28

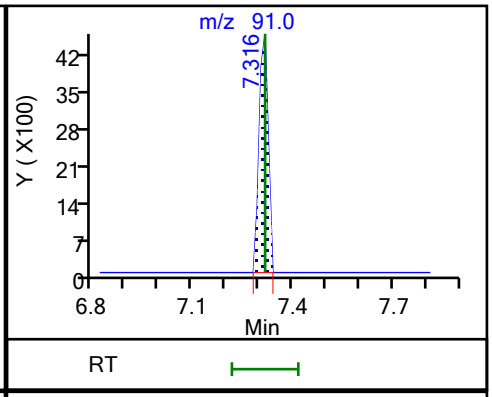
Eurofins TestAmerica, Canton

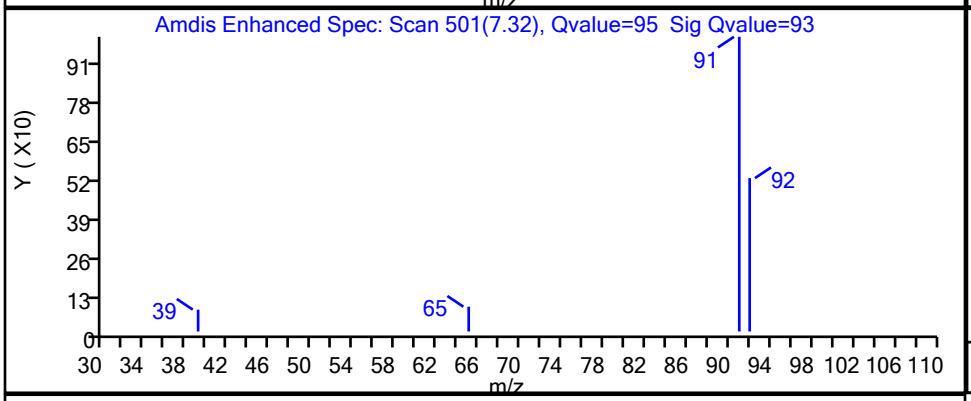
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35616.D

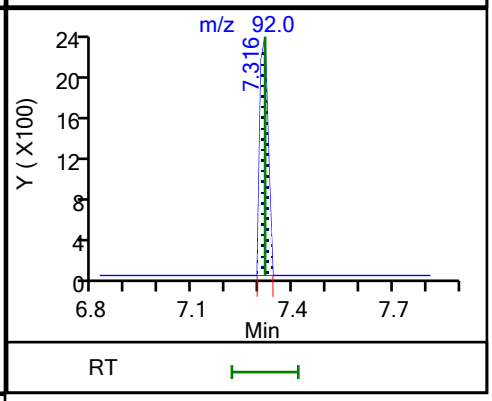
Injection Date:	11-Mar-2021 12:25:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-A-1	Lab Sample ID:	240-145599-1		
Client ID:	MSA-SW37A-030821				
Operator ID:	001765	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

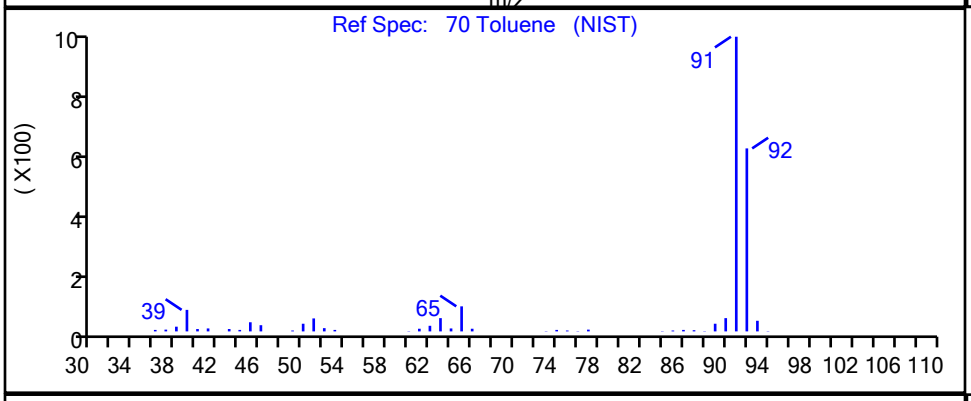
70 Toluene, CAS: 108-88-3

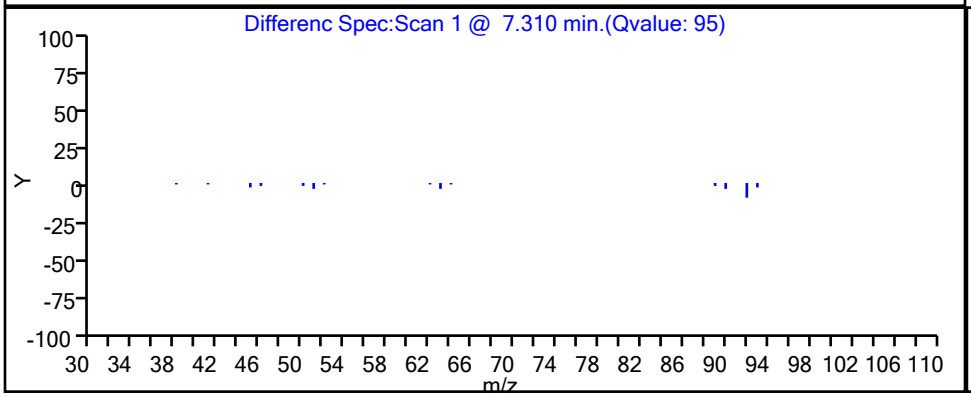


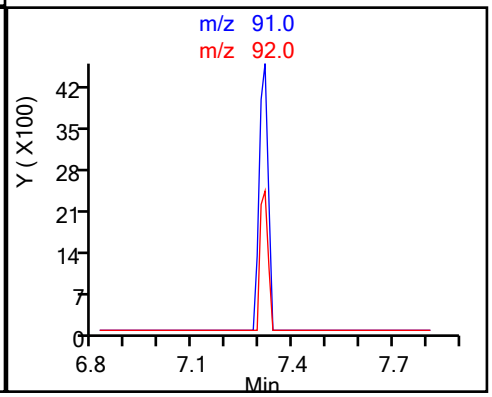












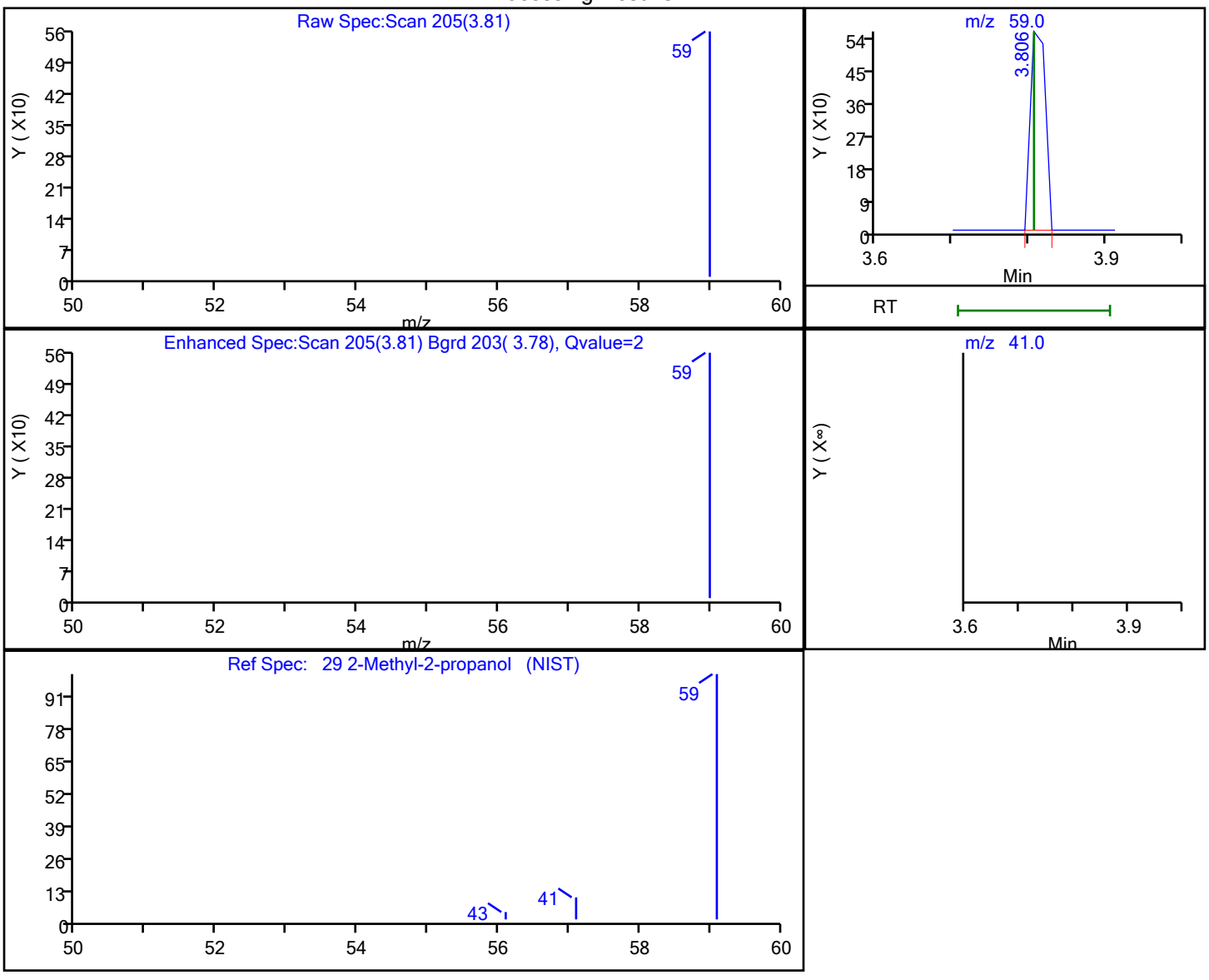
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35616.D				
Injection Date:	11-Mar-2021 12:25:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-A-1	Lab Sample ID:	240-145599-1		
Client ID:	MSA-SW37A-030821				
Operator ID:	001765	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

29 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results



RT	Mass	Response	Amount
3.81	59.00	761	0.857260
3.81	41.00	0	

Reviewer: bosworthh, 11-Mar-2021 13:22:20

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37B-030821 Lab Sample ID: 240-145599-2

Matrix: Water Lab File ID: UXM35617.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37B-030821 Lab Sample ID: 240-145599-2

Matrix: Water Lab File ID: UXM35617.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.19	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37B-030821 Lab Sample ID: 240-145599-2

Matrix: Water Lab File ID: UXM35617.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	107		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37B-030821 Lab Sample ID: 240-145599-2

Matrix: Water Lab File ID: UXM35617.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37B-030821 Lab Sample ID: 240-145599-2

Matrix: Water Lab File ID: UXM35617.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:00

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35617.D
Lims ID: 240-145599-B-2
Client ID: MSA-SW37B-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 12:49:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-012
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 13:22:37 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: bosworthh Date: 11-Mar-2021 13:23:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1055313	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	85	907724	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	485135	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	305571	26.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	308265	24.8	
$ 6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1066122	21.8	
$ 7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	98	447205	25.4	
9 Dichlorodifluoromethane	85		1.719				ND	
10 Chloromethane	50		1.909				ND	
11 Vinyl chloride	62		2.027				ND	7
13 Bromomethane	94	2.383	2.371	0.012	81	2340	0.2041	
14 Chloroethane	64		2.490				ND	
16 Trichlorofluoromethane	101		2.751				ND	
19 1,1-Dichloroethene	96		3.261				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
21 Acetone	58	3.308	3.296	0.012	92	1286	1.37	
24 Carbon disulfide	76		3.474				ND	
28 Methylene Chloride	84		3.735				ND	
29 2-Methyl-2-propanol	59		3.806				ND	
31 Methyl tert-butyl ether	73		3.960				ND	
32 trans-1,2-Dichloroethene	96		3.984				ND	
35 Vinyl acetate	43		4.363				ND	
34 1,1-Dichloroethane	63		4.375				ND	
36 Isopropyl ether	87		4.387				ND	
38 Tert-butyl ethyl ether	59		4.707				ND	
40 2-Butanone (MEK)	72		4.850				ND	
41 2,2-Dichloropropane	77		4.873				ND	
39 cis-1,2-Dichloroethene	96		4.873				ND	
45 Chlorobromomethane	128		5.075				ND	
47 Chloroform	83		5.158				ND	
48 1,1,1-Trichloroethane	97		5.312				ND	
50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	98	11072	0.1945	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106		8.822				ND	
86 o-Xylene	106		9.190				ND	7
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

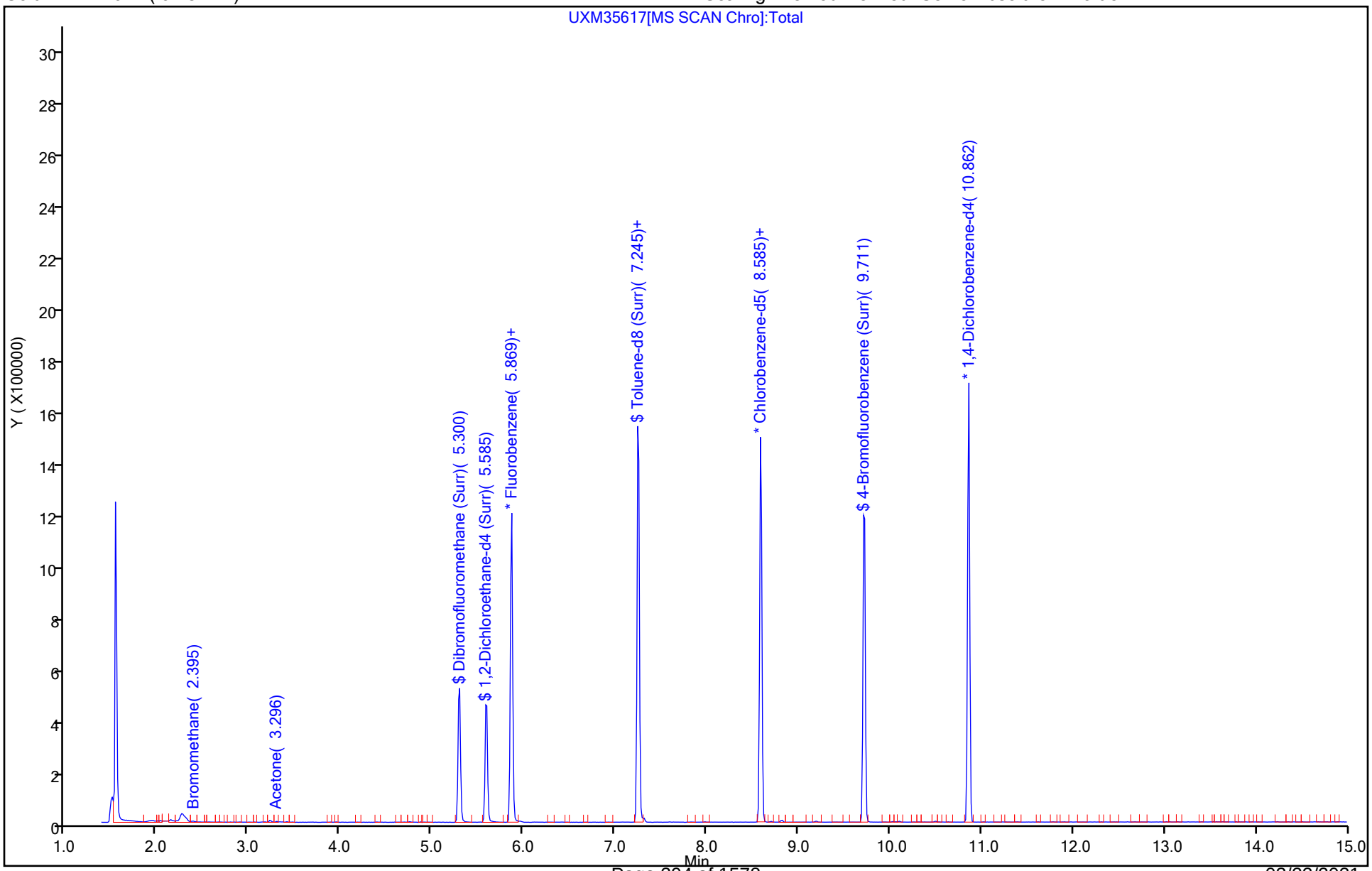
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 11-Mar-2021 13:23:38 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35617.D				
Injection Date:	11-Mar-2021 12:49:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-2	Lab Sample ID:	240-145599-2	Worklist Smp#:	12
Client ID:	MSA-SW37B-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35617.D				
Lims ID:	240-145599-B-2				
Client ID:	MSA-SW37B-030821				
Sample Type:	Client				
Inject. Date:	11-Mar-2021 12:49:30	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107193-012				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	11-Mar-2021 13:22:37	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1649				

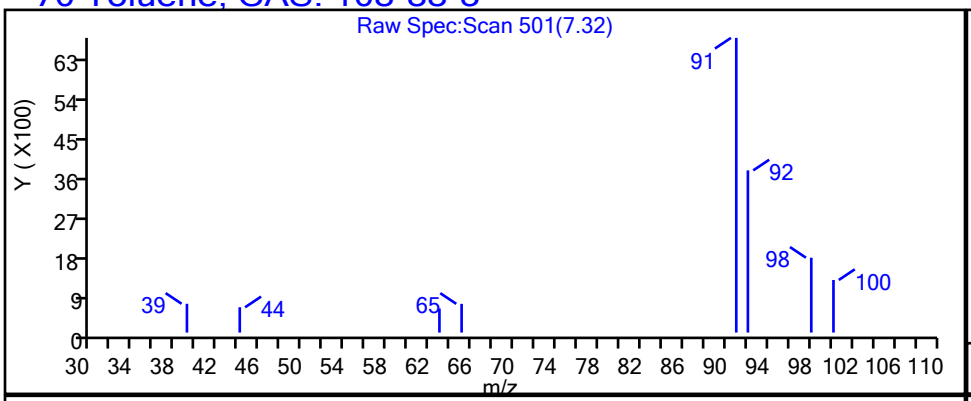
First Level Reviewer: bosworthh Date: 11-Mar-2021 13:23:38

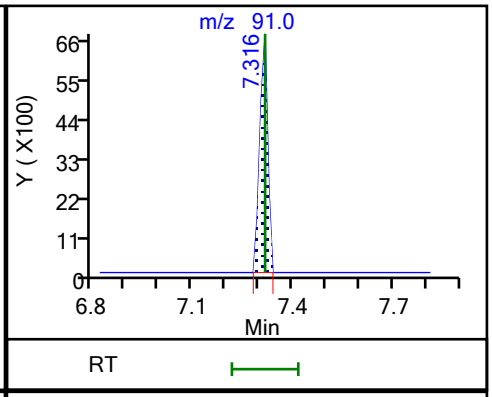
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.6	106.60
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.8	99.35
$ 6 Toluene-d8 (Surr)	24.9	21.8	87.66
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.4	101.87

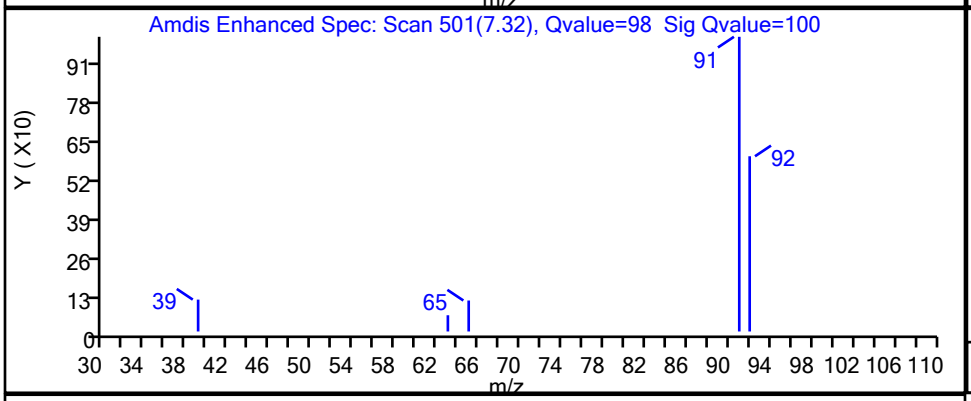
Eurofins TestAmerica, Canton

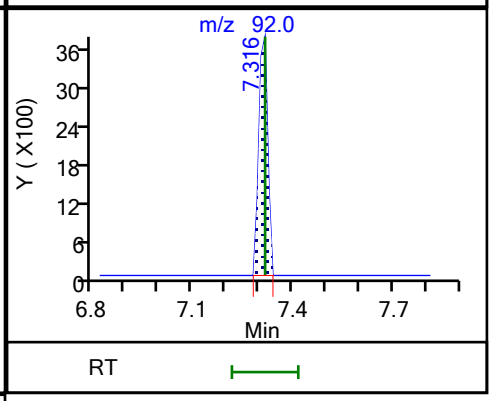
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35617.D				
Injection Date:	11-Mar-2021 12:49:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-2	Lab Sample ID:	240-145599-2		
Client ID:	MSA-SW37B-030821				
Operator ID:	001765	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

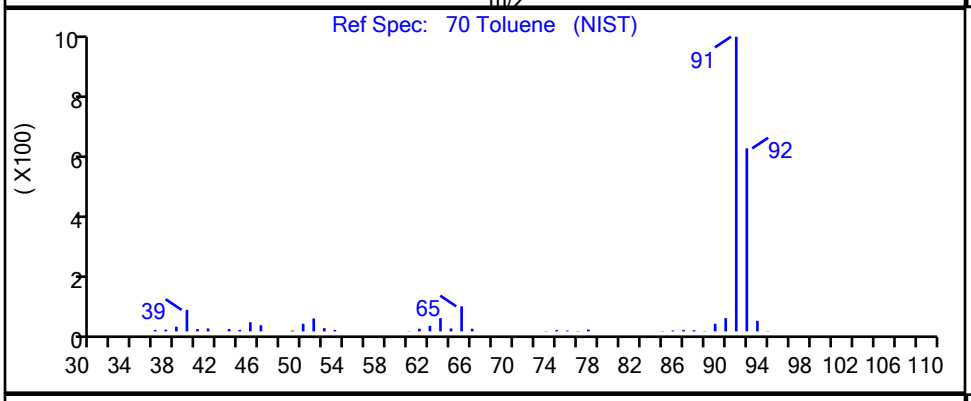
70 Toluene, CAS: 108-88-3

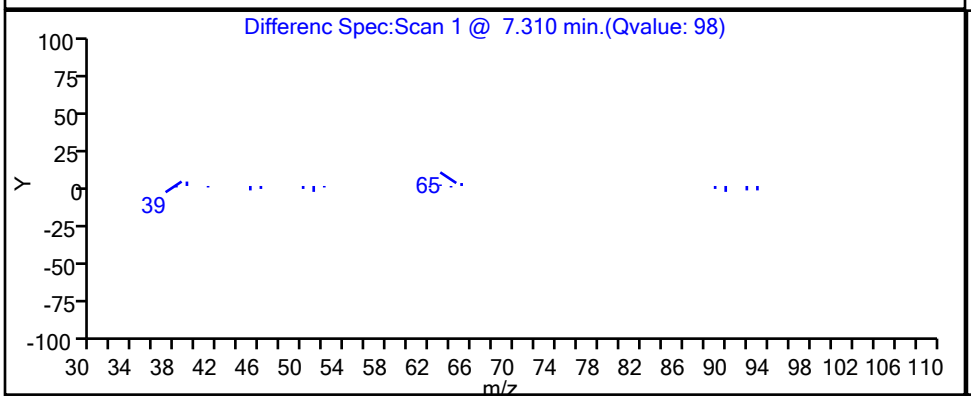


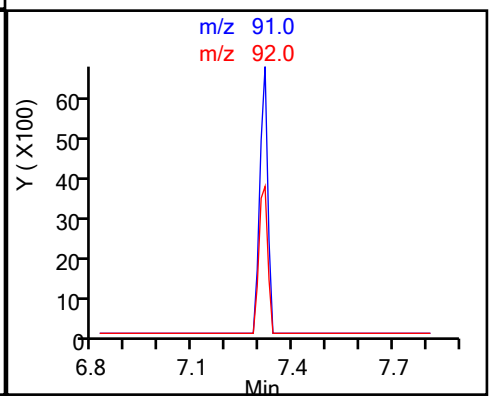












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37C-030821 Lab Sample ID: 240-145599-3

Matrix: Water Lab File ID: UXM35618.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.19	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37C-030821 Lab Sample ID: 240-145599-3

Matrix: Water Lab File ID: UXM35618.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.19	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.28	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37C-030821 Lab Sample ID: 240-145599-3

Matrix: Water Lab File ID: UXM35618.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		47-134
1868-53-7	Dibromofluoromethane (Surr)	107		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37C-030821 Lab Sample ID: 240-145599-3

Matrix: Water Lab File ID: UXM35618.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37C-030821 Lab Sample ID: 240-145599-3

Matrix: Water Lab File ID: UXM35618.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35618.D
Lims ID: 240-145599-B-3
Client ID: MSA-SW37C-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 13:24:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-013
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:52:08

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	1064918	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	83	916563	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	495564	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	310568	26.8	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	97	311155	24.8	
$	6 Toluene-d8 (Surr)	98	7.257	7.245	0.012	92	1082098	22.0	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.712	0.011	98	444739	25.0	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	95	5005	0.2778	
	13 Bromomethane	94	2.383	2.371	0.012	81	1723	0.1489	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.296	0.012	91	1169	1.23	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	60	2640	0.1916	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	98	11047	0.1922	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106		8.822				ND	
86 o-Xylene	106		9.190				ND	7
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

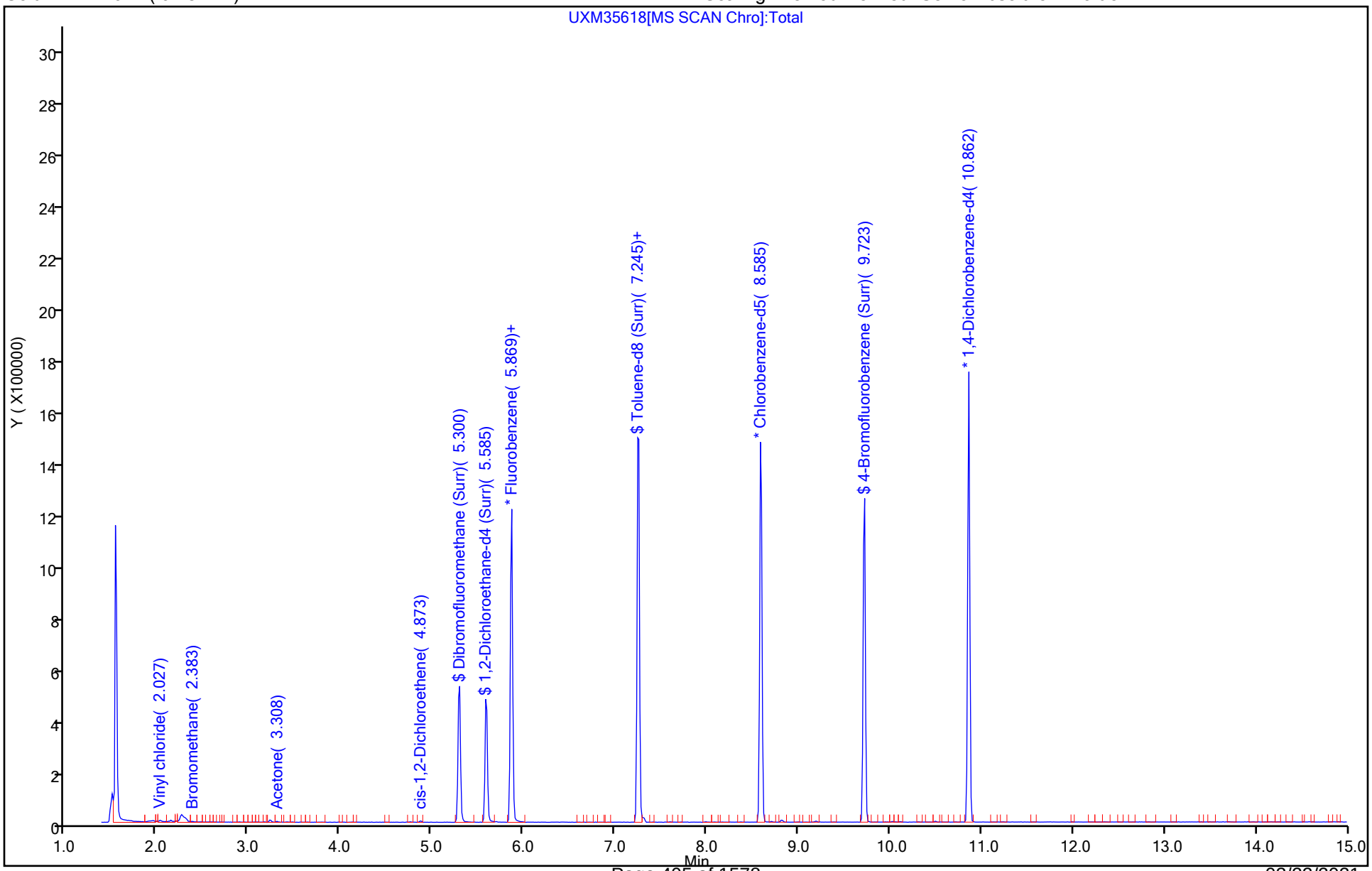
Report Date: 12-Mar-2021 08:52:08 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35618.D

Injection Date:	11-Mar-2021 13:24:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-3	Lab Sample ID:	240-145599-3	Worklist Smp#:	13
Client ID:	MSA-SW37C-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35618.D
Lims ID: 240-145599-B-3
Client ID: MSA-SW37C-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 13:24:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-013
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:52:08

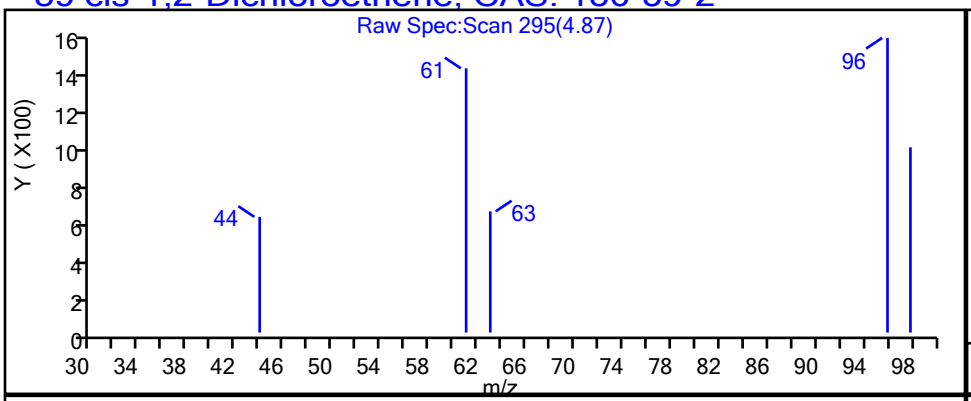
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.8	107.37
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.8	99.38
$ 6 Toluene-d8 (Surr)	24.9	22.0	88.11
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.0	100.33

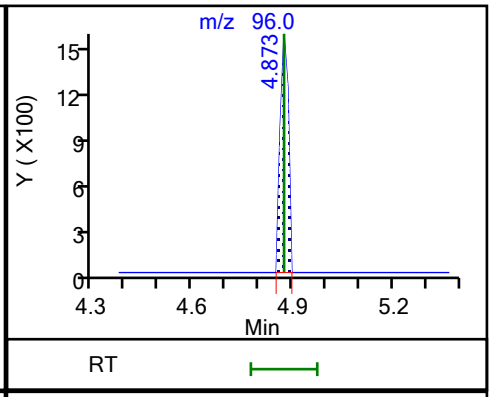
Eurofins TestAmerica, Canton

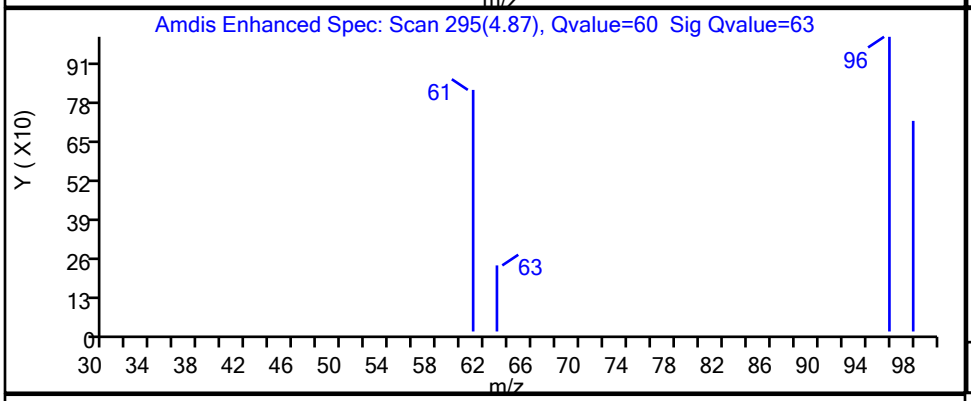
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35618.D

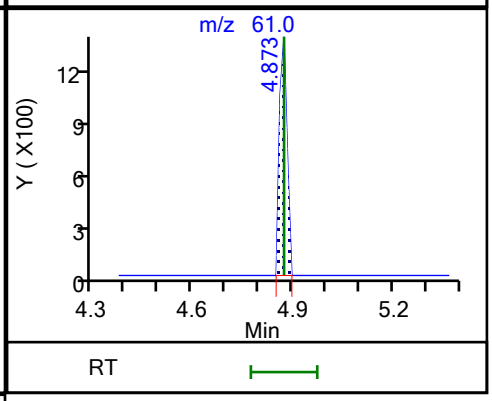
Injection Date:	11-Mar-2021 13:24:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-3	Lab Sample ID:	240-145599-3		
Client ID:	MSA-SW37C-030821				
Operator ID:	001765	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

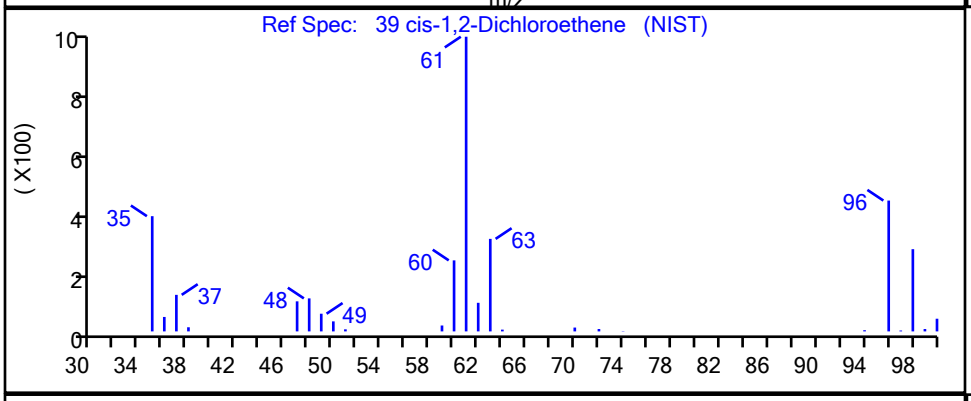
39 cis-1,2-Dichloroethene, CAS: 156-59-2

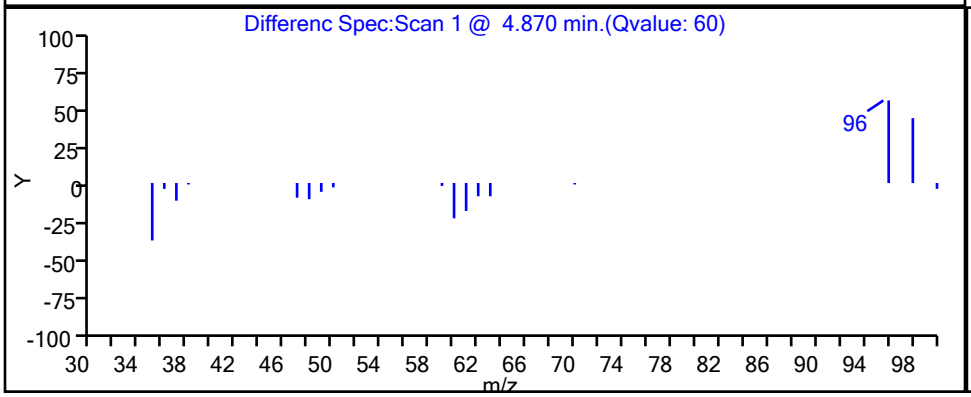


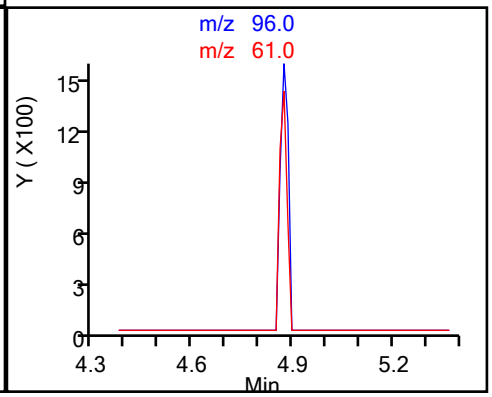










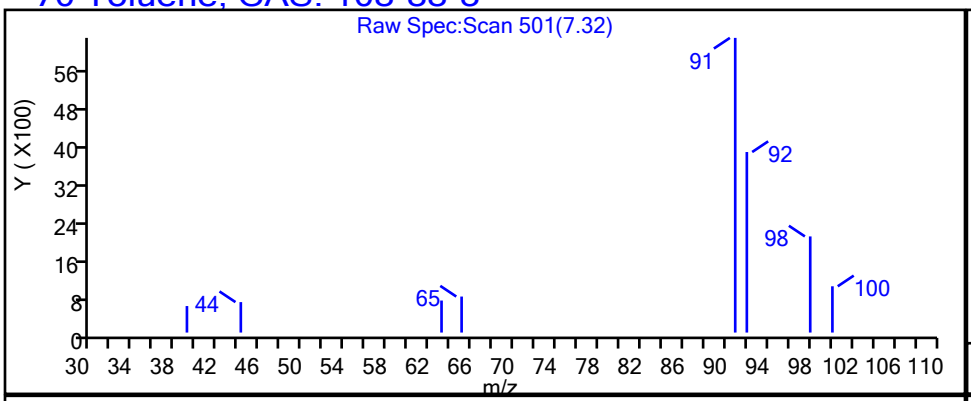


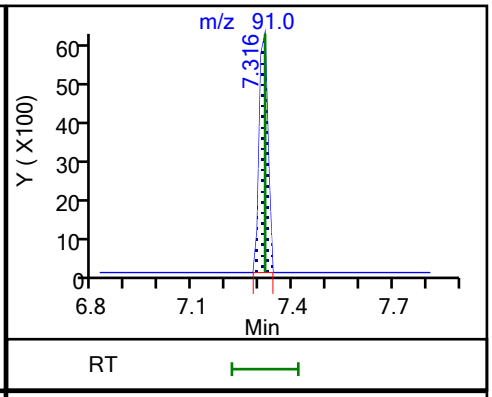
Eurofins TestAmerica, Canton

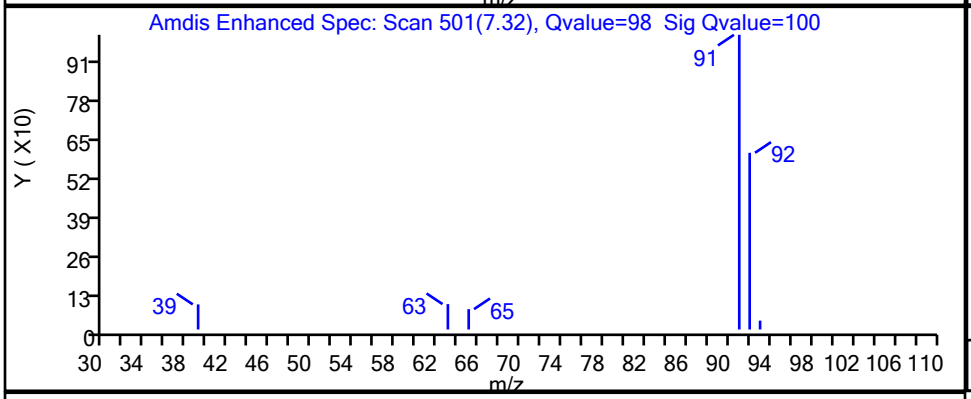
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35618.D

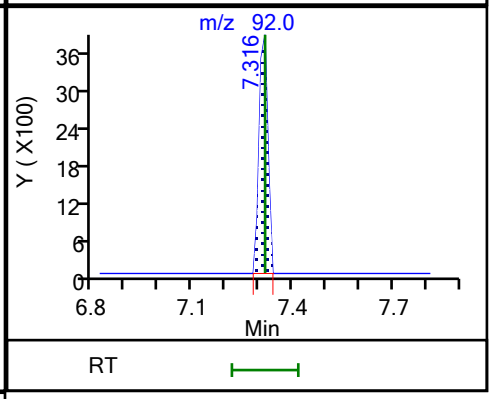
Injection Date:	11-Mar-2021 13:24:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-3	Lab Sample ID:	240-145599-3		
Client ID:	MSA-SW37C-030821				
Operator ID:	001765	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

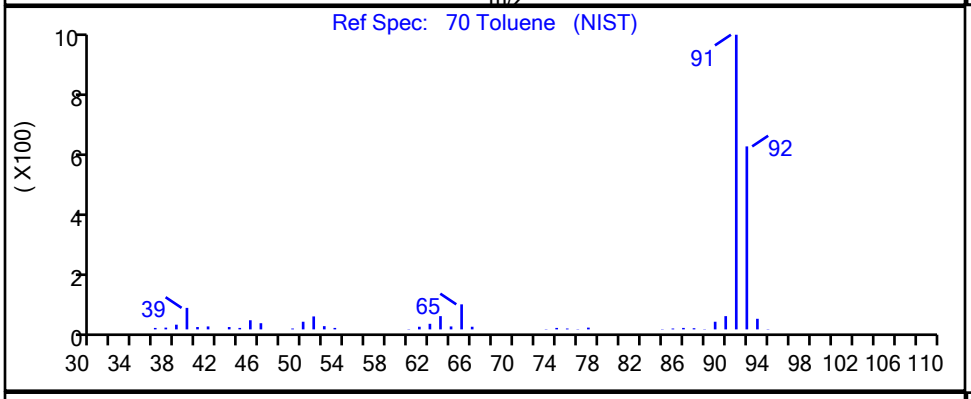
70 Toluene, CAS: 108-88-3

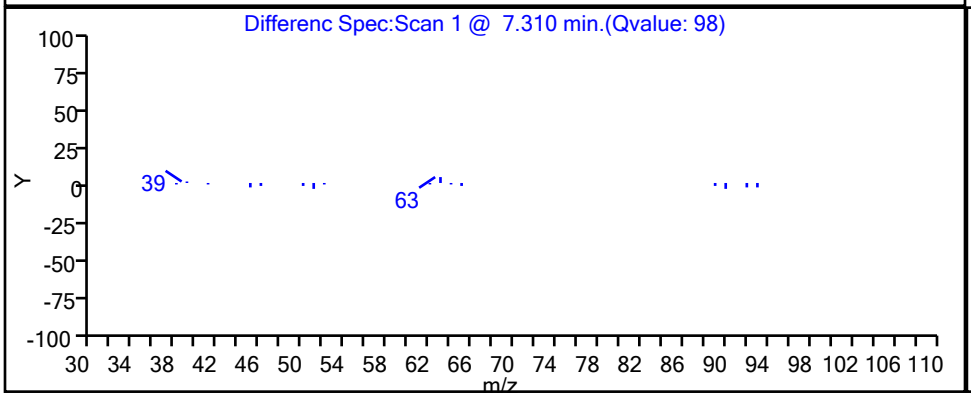


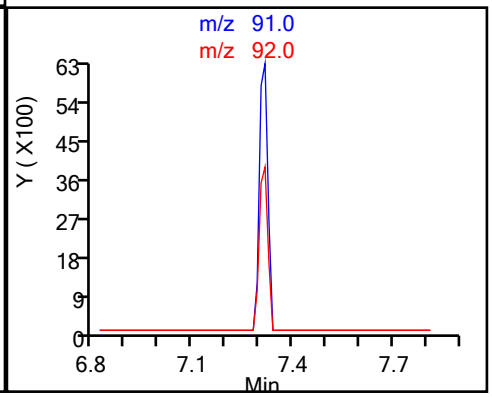












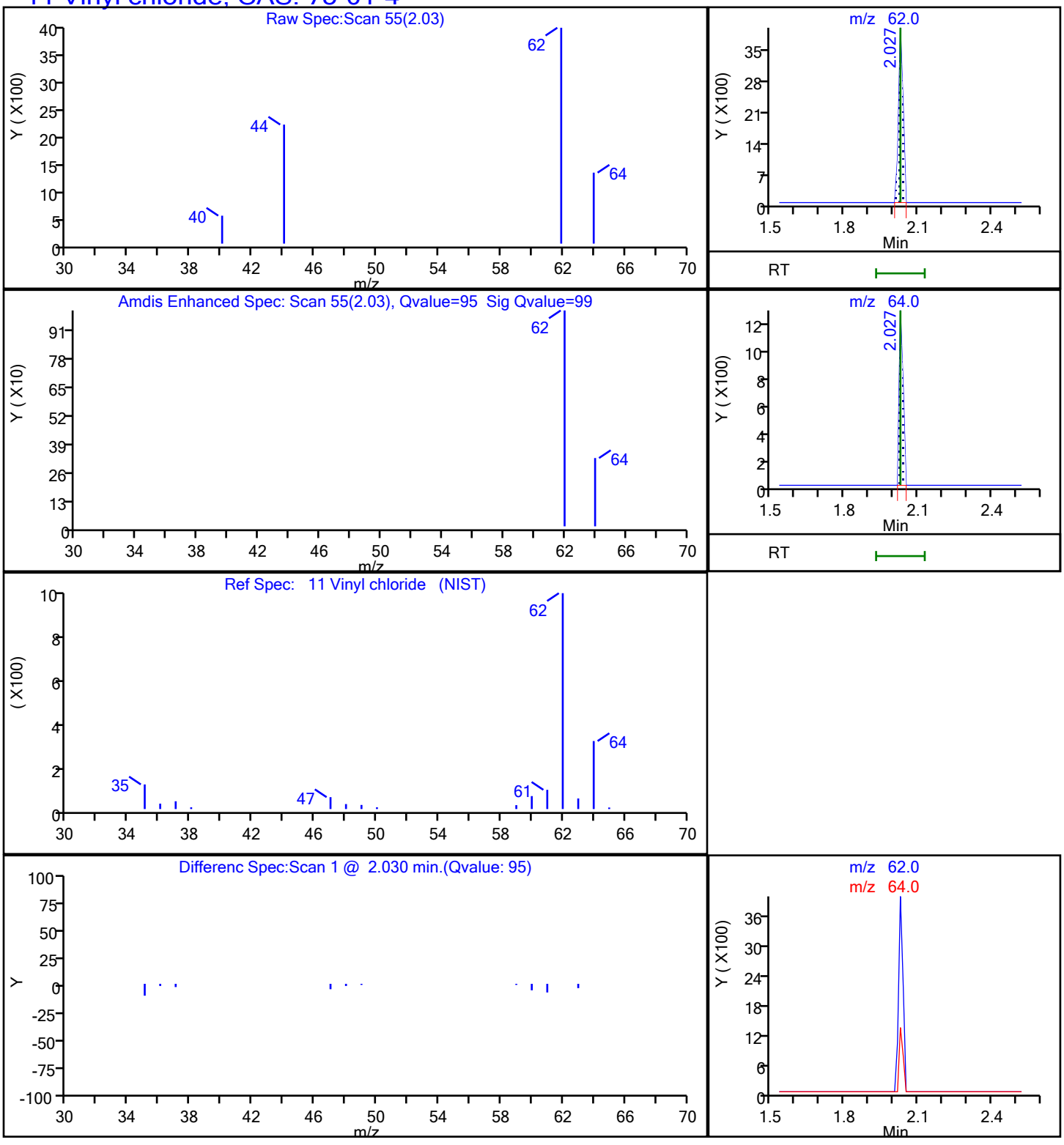
Report Date: 12-Mar-2021 08:52:08 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35618.D

Injection Date:	11-Mar-2021 13:24:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-3	Lab Sample ID:	240-145599-3		
Client ID:	MSA-SW37C-030821				
Operator ID:	001765	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37D-030821 Lab Sample ID: 240-145599-4

Matrix: Water Lab File ID: UXM35619.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37D-030821 Lab Sample ID: 240-145599-4

Matrix: Water Lab File ID: UXM35619.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.21	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.21	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37D-030821 Lab Sample ID: 240-145599-4

Matrix: Water Lab File ID: UXM35619.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37D-030821 Lab Sample ID: 240-145599-4

Matrix: Water Lab File ID: UXM35619.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW37D-030821 Lab Sample ID: 240-145599-4

Matrix: Water Lab File ID: UXM35619.D

Analysis Method: 8260C Date Collected: 03/08/2021 11:26

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 13:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35619.D
Lims ID: 240-145599-B-4
Client ID: MSA-SW37D-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 13:48:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-014
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:52:47

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	1075735	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	83	945027	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	508701	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	306230	26.1	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	97	319535	25.2	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1111336	21.9	
$	7 4-Bromofluorobenzene (Surr)	95	9.712	9.712	0.000	95	476536	26.0	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	94	3820	0.2099	
	13 Bromomethane	94	2.383	2.371	0.012	68	1511	0.1293	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.296	0.012	97	1391	1.45	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	69	2095	0.1505	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	98	12550	0.2118	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106		8.822				ND	
86 o-Xylene	106		9.190				ND	7
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

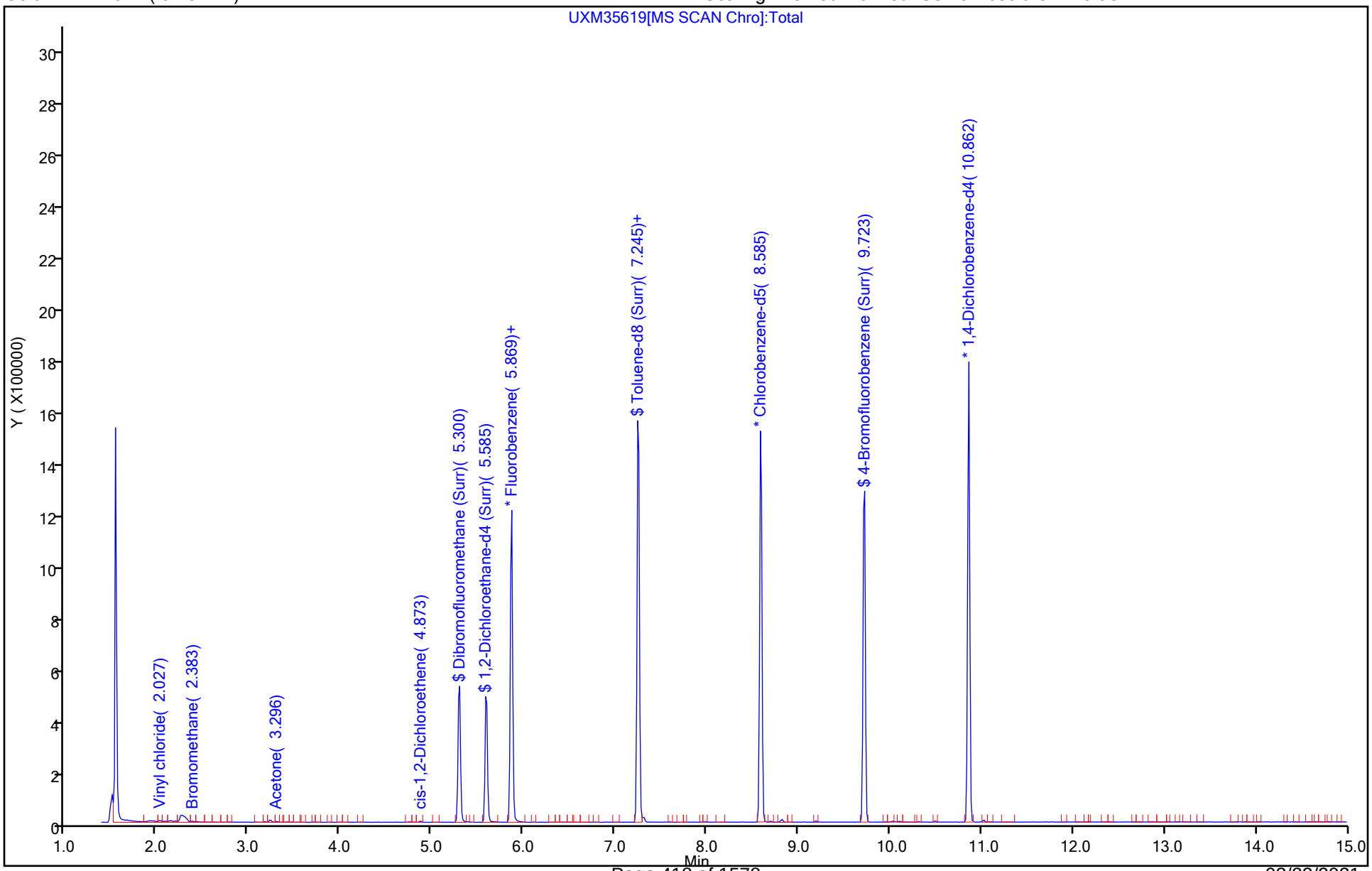
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 12-Mar-2021 08:52:48 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35619.D				
Injection Date:	11-Mar-2021 13:48:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-4	Lab Sample ID:	240-145599-4	Worklist Smp#:	14
Client ID:	MSA-SW37D-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35619.D				
Lims ID:	240-145599-B-4				
Client ID:	MSA-SW37D-030821				
Sample Type:	Client				
Inject. Date:	11-Mar-2021 13:48:30	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107193-014				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	11-Mar-2021 21:07:20	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1602				

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:52:47

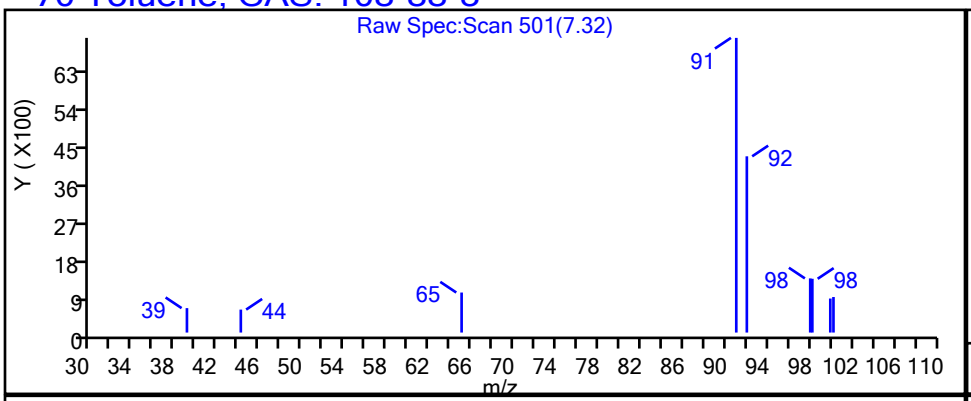
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.1	104.80
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.2	101.03
$ 6 Toluene-d8 (Surr)	24.9	21.9	87.77
$ 7 4-Bromofluorobenzene (Surr)	24.9	26.0	104.27

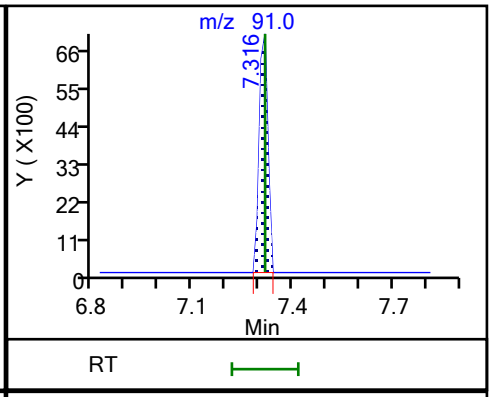
Eurofins TestAmerica, Canton

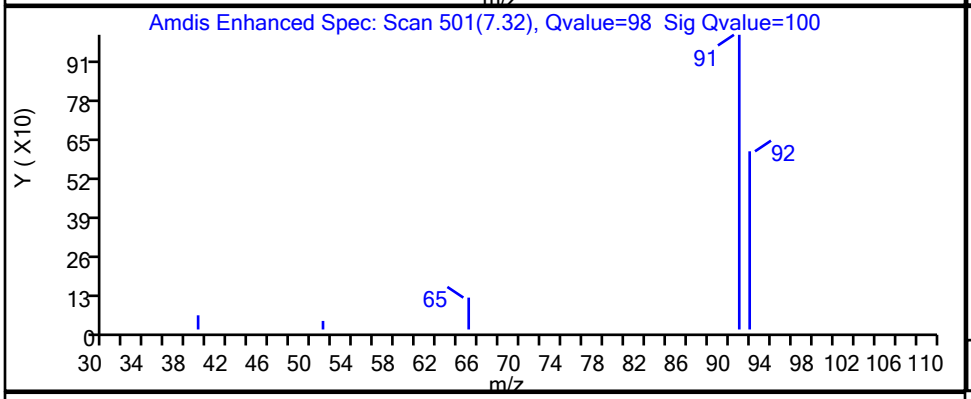
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35619.D

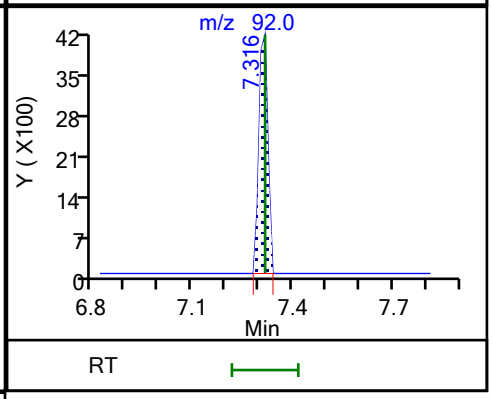
Injection Date:	11-Mar-2021 13:48:30	Instrument ID:	A3UX16
Lims ID:	240-145599-B-4	Lab Sample ID:	240-145599-4
Client ID:	MSA-SW37D-030821		
Operator ID:	001765	ALS Bottle#:	14 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

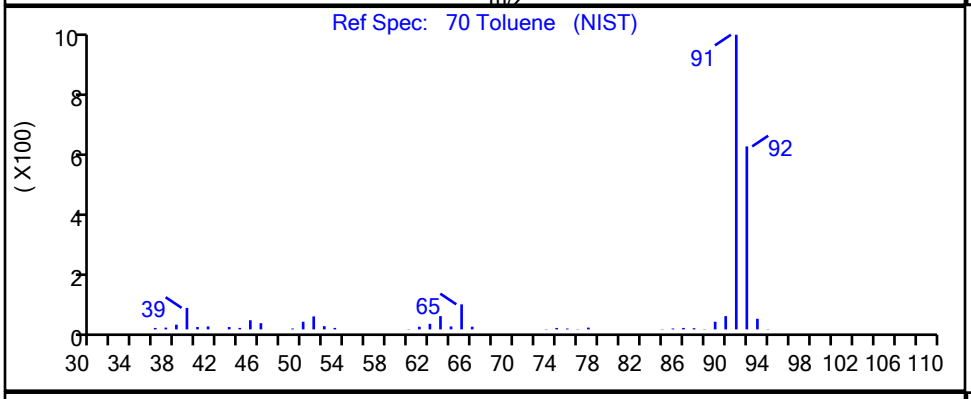
70 Toluene, CAS: 108-88-3

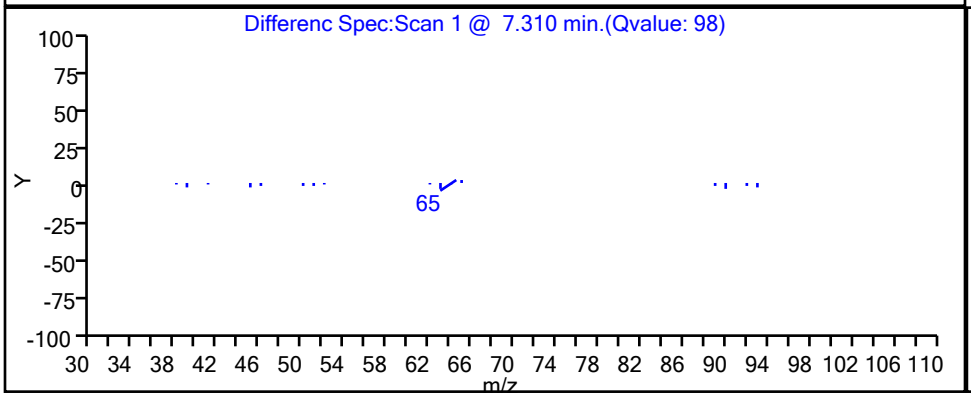


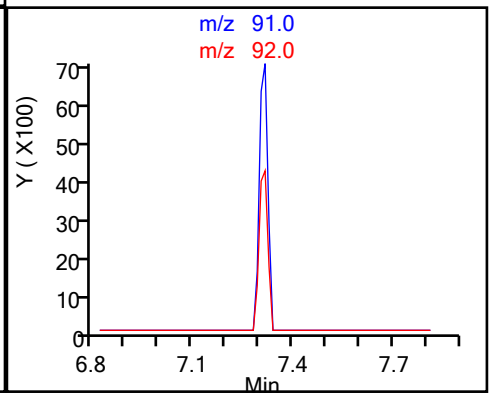








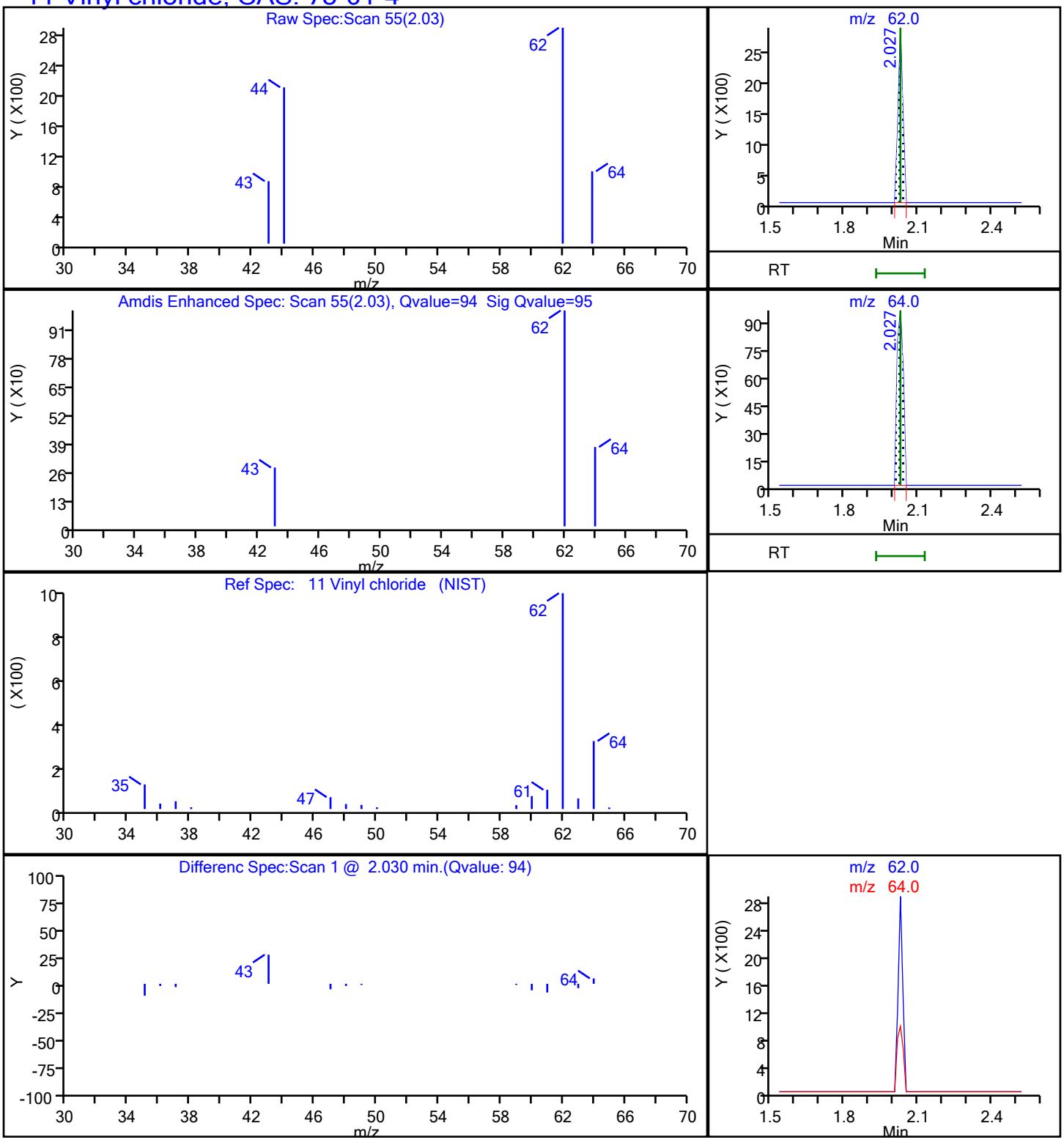




Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35619.D				
Injection Date:	11-Mar-2021 13:48:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-4	Lab Sample ID:	240-145599-4		
Client ID:	MSA-SW37D-030821				
Operator ID:	001765	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38A-030821 Lab Sample ID: 240-145599-5

Matrix: Water Lab File ID: UXM35620.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:51

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.23	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38A-030821 Lab Sample ID: 240-145599-5

Matrix: Water Lab File ID: UXM35620.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:51

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.16	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.54	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38A-030821 Lab Sample ID: 240-145599-5

Matrix: Water Lab File ID: UXM35620.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:51

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		47-134
1868-53-7	Dibromofluoromethane (Surr)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38A-030821 Lab Sample ID: 240-145599-5

Matrix: Water Lab File ID: UXM35620.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:51

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38A-030821 Lab Sample ID: 240-145599-5

Matrix: Water Lab File ID: UXM35620.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:51

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35620.D
Lims ID: 240-145599-B-5
Client ID: MSA-SW38A-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 14:13:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-015
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:53:28

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	1081452	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	83	919114	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	498153	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	308016	26.1	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	97	316226	24.8	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1089146	22.0	
$	7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	96	459646	25.8	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	95	9896	0.5409	
	13 Bromomethane	94	2.383	2.371	0.012	67	1811	0.1541	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.296	0.012	96	1344	1.39	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	73	3207	0.2292	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	98	8983	0.1559	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106		8.822				ND	
86 o-Xylene	106		9.190				ND	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

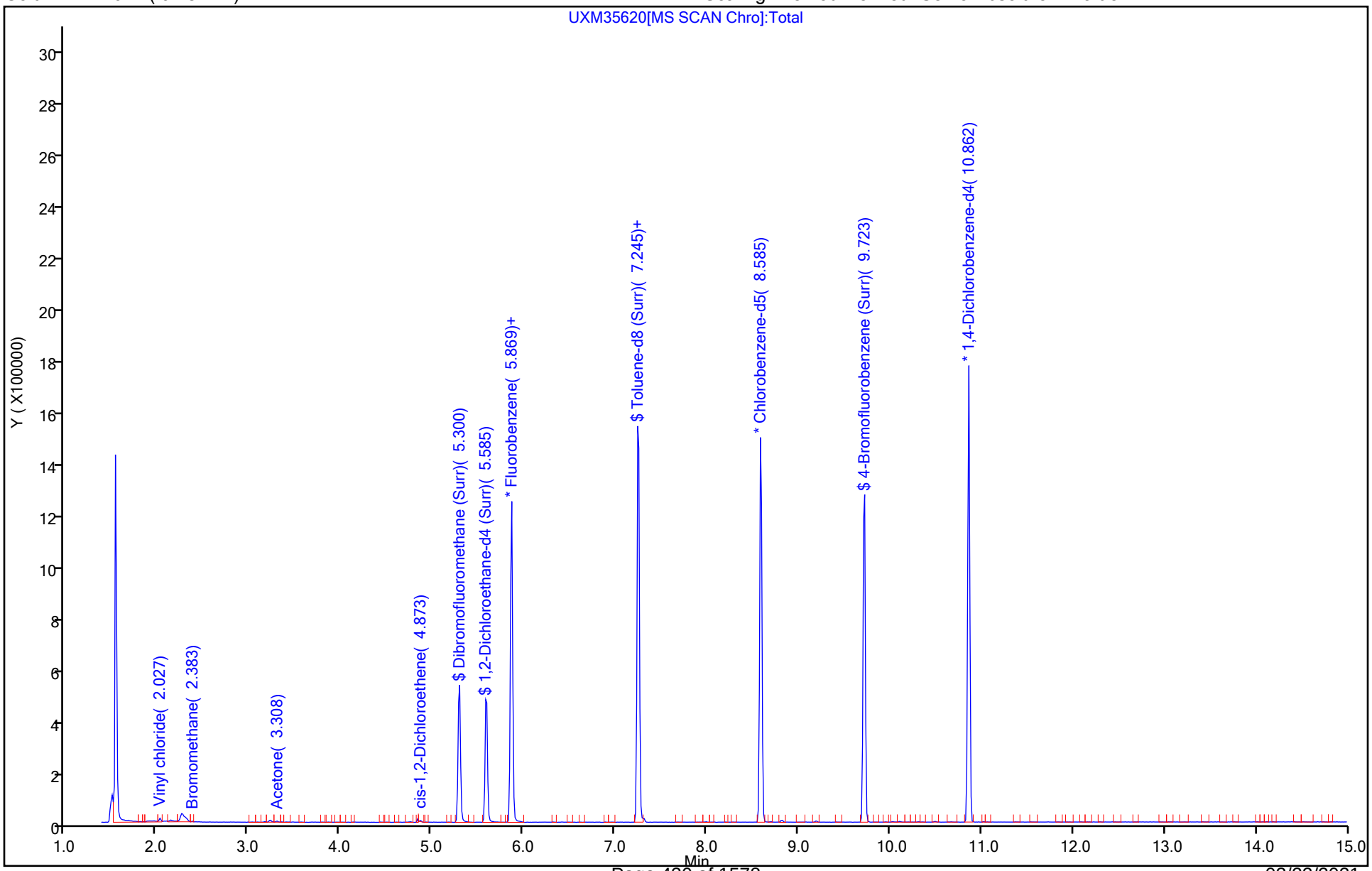
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 12-Mar-2021 08:53:28 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35620.D				
Injection Date:	11-Mar-2021 14:13:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-5	Lab Sample ID:	240-145599-5	Worklist Smp#:	15
Client ID:	MSA-SW38A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35620.D
Lims ID: 240-145599-B-5
Client ID: MSA-SW38A-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 14:13:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-015
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:53:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.1	104.86
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.8	99.45
$ 6 Toluene-d8 (Surr)	24.9	22.0	88.44
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.8	103.41

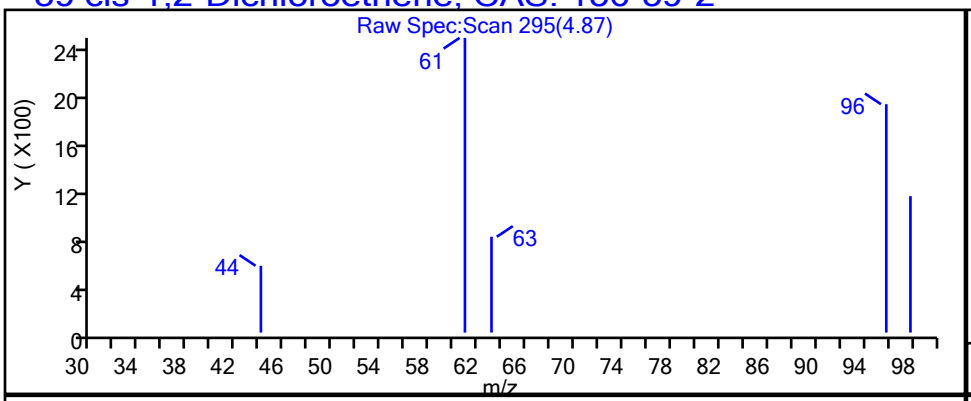
Report Date: 12-Mar-2021 08:53:29 Chrom Revision: 2.3 05-Feb-2021 00:13:28

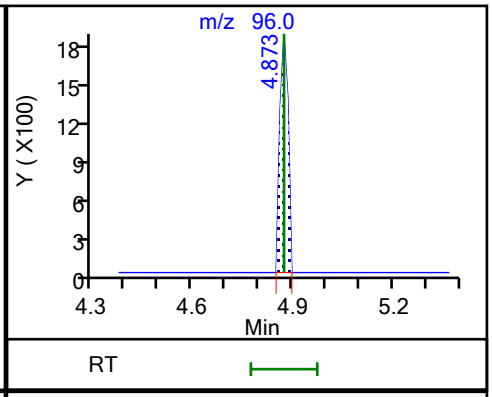
Eurofins TestAmerica, Canton

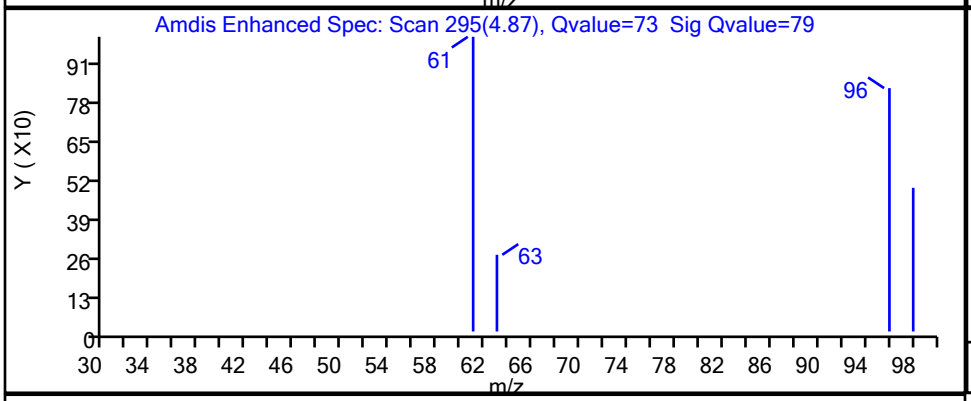
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35620.D

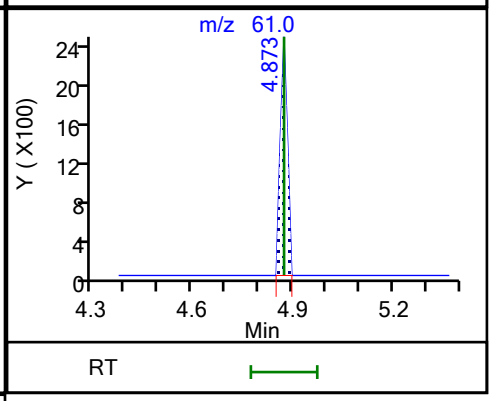
Injection Date:	11-Mar-2021 14:13:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-5	Lab Sample ID:	240-145599-5		
Client ID:	MSA-SW38A-030821				
Operator ID:	001765	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

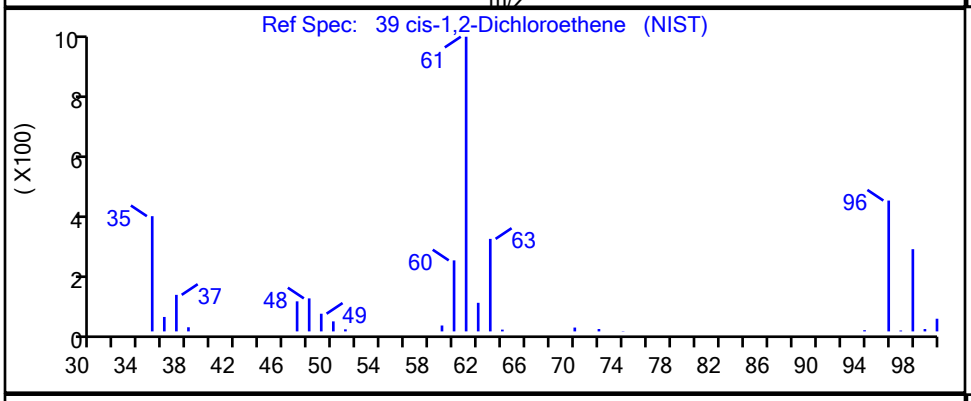
39 cis-1,2-Dichloroethene, CAS: 156-59-2

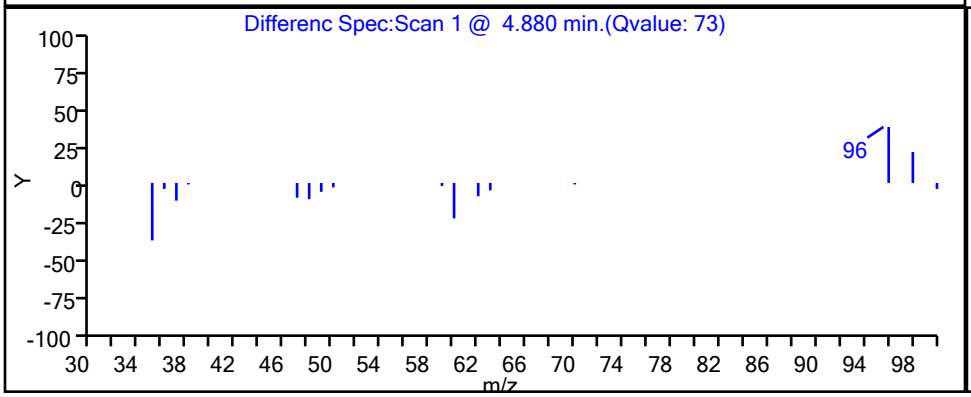


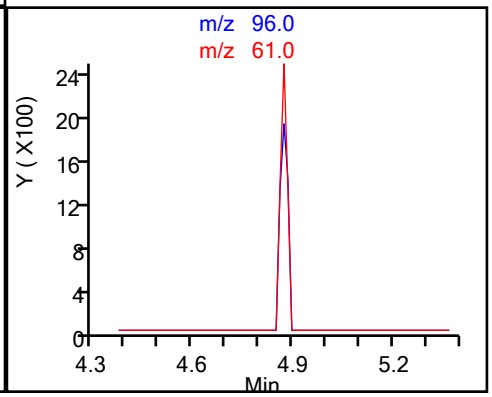












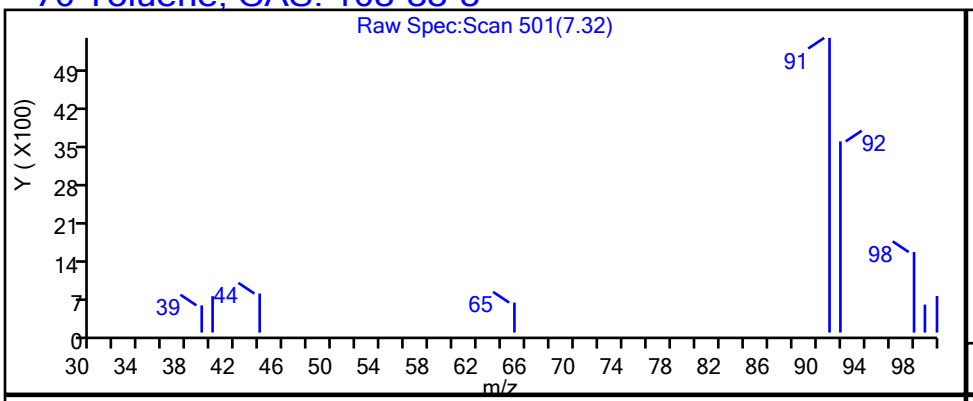
Report Date: 12-Mar-2021 08:53:29 Chrom Revision: 2.3 05-Feb-2021 00:13:28

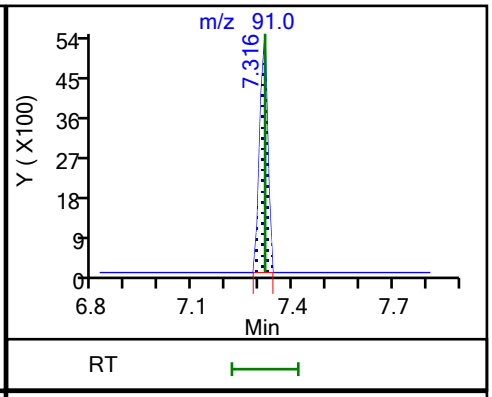
Eurofins TestAmerica, Canton

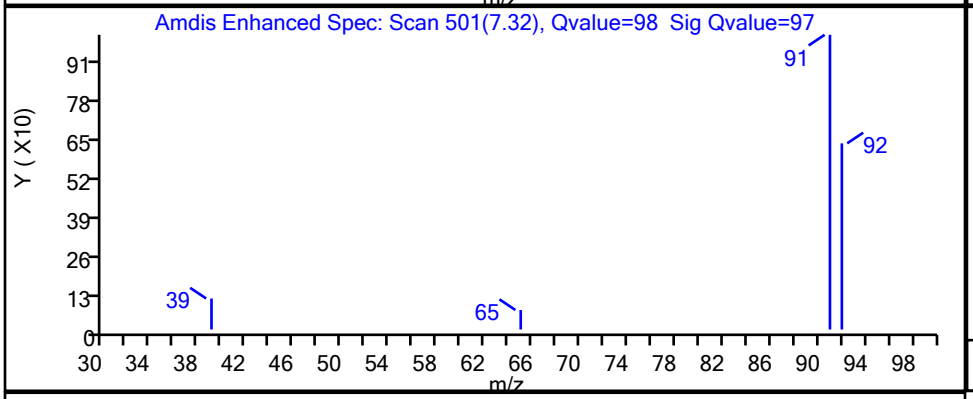
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35620.D

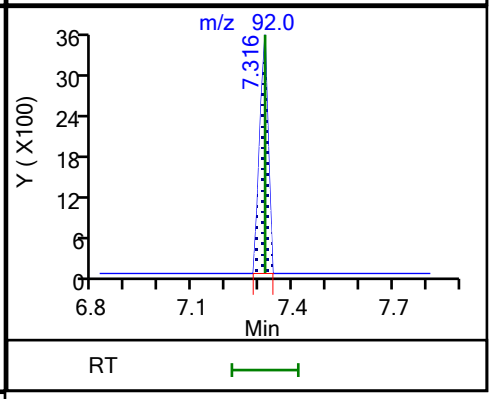
Injection Date:	11-Mar-2021 14:13:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-5	Lab Sample ID:	240-145599-5		
Client ID:	MSA-SW38A-030821				
Operator ID:	001765	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

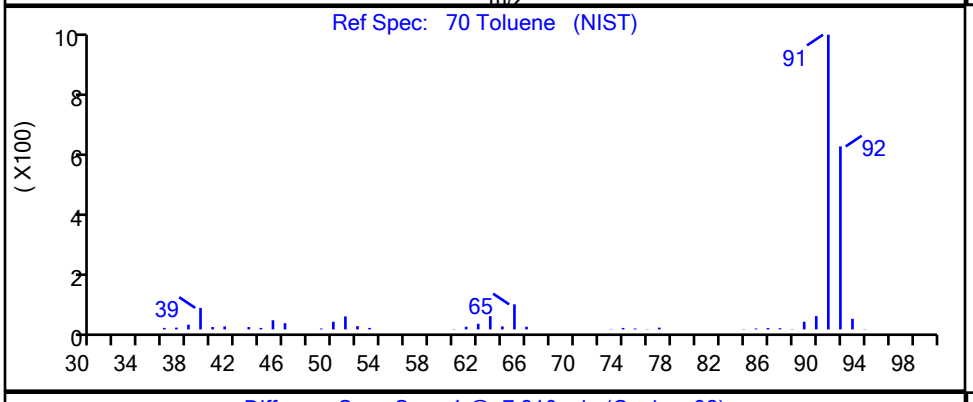
70 Toluene, CAS: 108-88-3

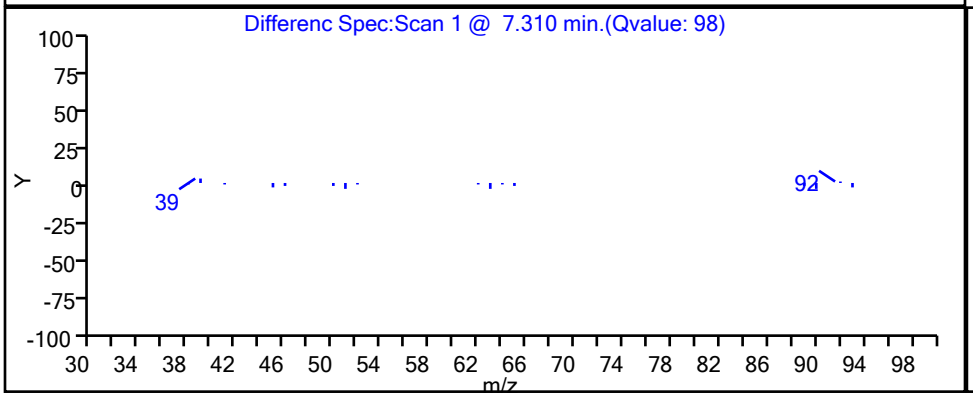


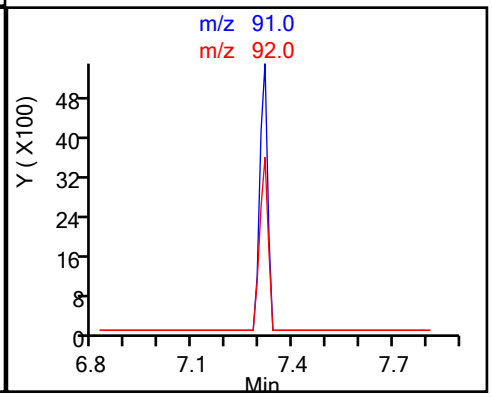










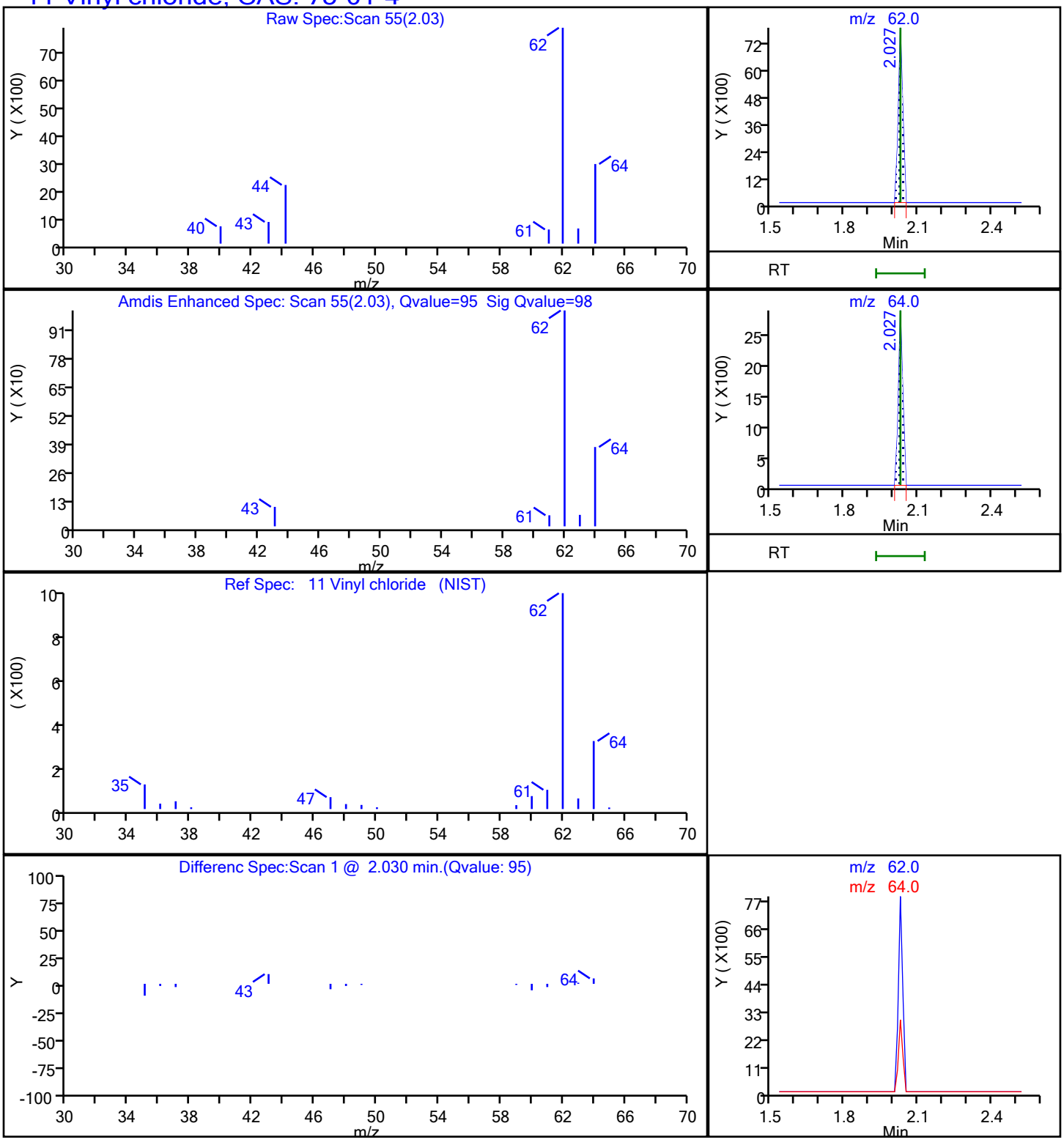


Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35620.D

Injection Date:	11-Mar-2021 14:13:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-5	Lab Sample ID:	240-145599-5		
Client ID:	MSA-SW38A-030821				
Operator ID:	001765	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38B-030821 Lab Sample ID: 240-145599-6

Matrix: Water Lab File ID: UXM35621.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:56

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.23	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38B-030821 Lab Sample ID: 240-145599-6

Matrix: Water Lab File ID: UXM35621.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:56

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.21	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.11	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.59	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38B-030821 Lab Sample ID: 240-145599-6

Matrix: Water Lab File ID: UXM35621.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:56

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	103		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38B-030821 Lab Sample ID: 240-145599-6

Matrix: Water Lab File ID: UXM35621.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:56

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38B-030821 Lab Sample ID: 240-145599-6

Matrix: Water Lab File ID: UXM35621.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:56

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 14:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35621.D
Lims ID: 240-145599-B-6
Client ID: MSA-SW38B-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 14:37:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-016
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:54:01

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	1067804	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	84	893251	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	487802	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	93	299114	25.7	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	97	305928	24.3	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1064862	22.2	
$	7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	95	438199	25.3	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	96	10603	0.5869	
	13 Bromomethane	94	2.383	2.371	0.012	80	1978	0.1705	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.296	3.296	0.000	94	1387	1.46	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	77	3206	0.2320	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	96	11906	0.2126	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106		8.822				ND	
86 o-Xylene	106		9.190				ND	7
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	88	5263	0.1084	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

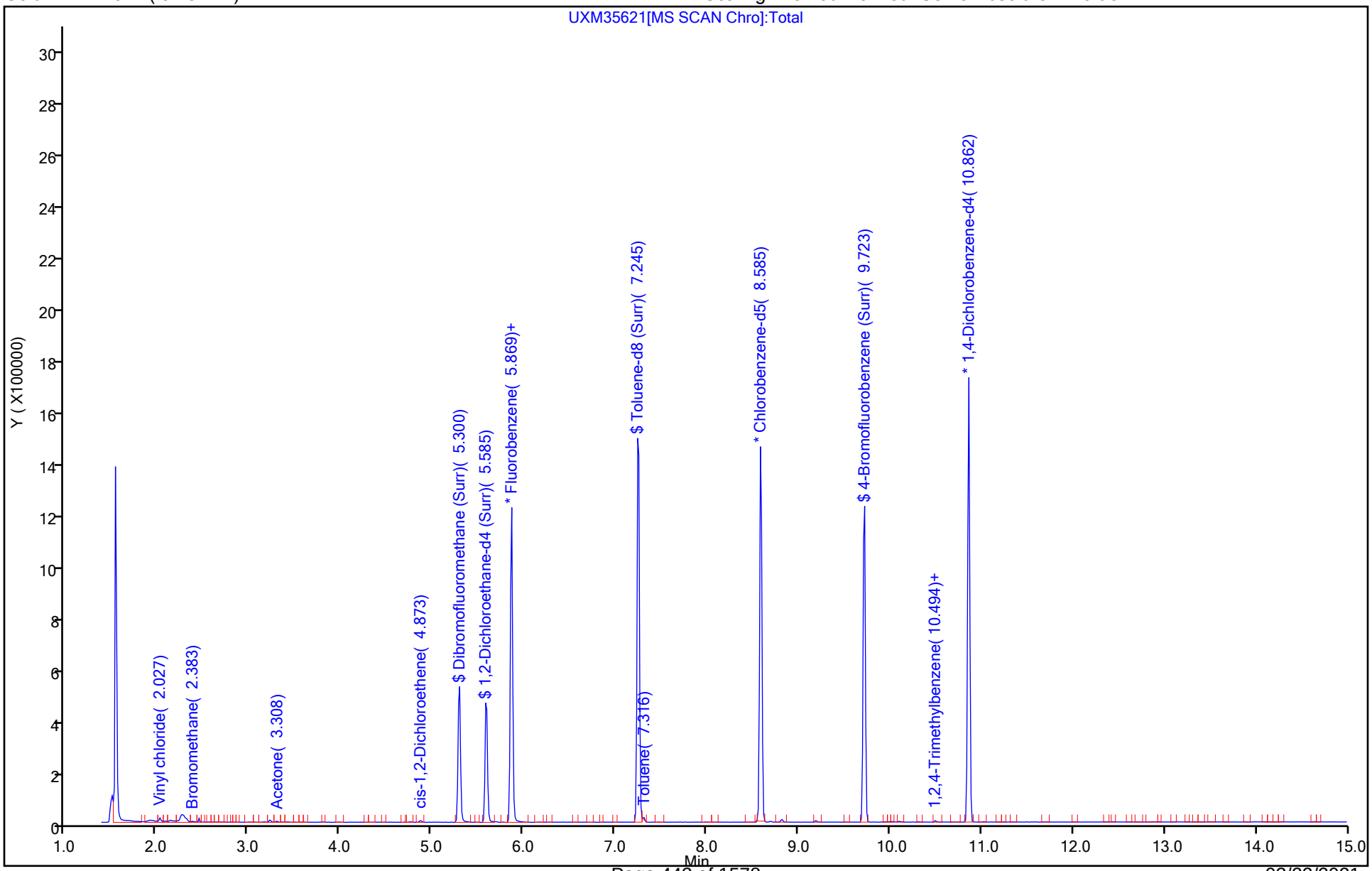
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 12-Mar-2021 08:54:01 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35621.D				
Injection Date:	11-Mar-2021 14:37:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-6	Lab Sample ID:	240-145599-6	Worklist Smp#:	16
Client ID:	MSA-SW38B-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35621.D
Lims ID: 240-145599-B-6
Client ID: MSA-SW38B-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 14:37:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-016
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:54:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	25.7	103.13
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.3	97.44
$ 6 Toluene-d8 (Surr)	24.9	22.2	88.97
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.3	101.44

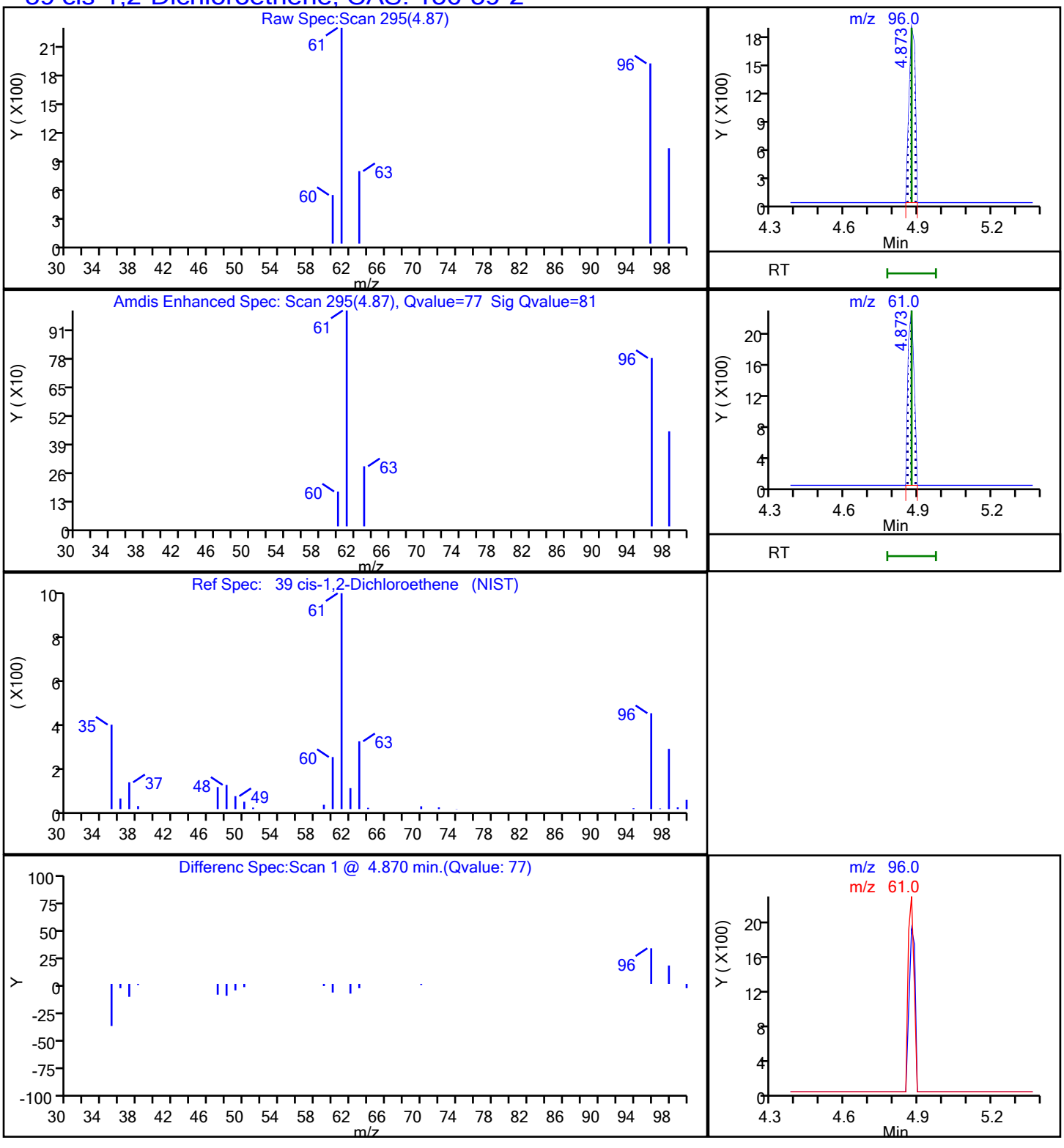
Report Date: 12-Mar-2021 08:54:01 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35621.D

Injection Date:	11-Mar-2021 14:37:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-6	Lab Sample ID:	240-145599-6		
Client ID:	MSA-SW38B-030821				
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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



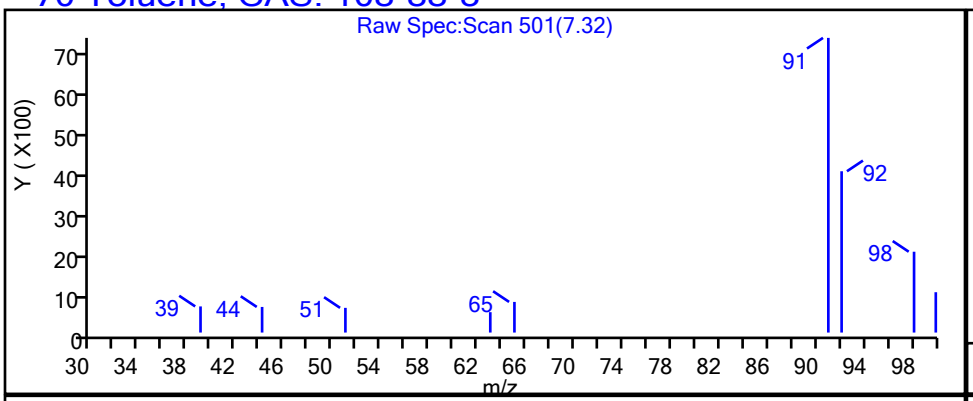
Report Date: 12-Mar-2021 08:54:01 Chrom Revision: 2.3 05-Feb-2021 00:13:28

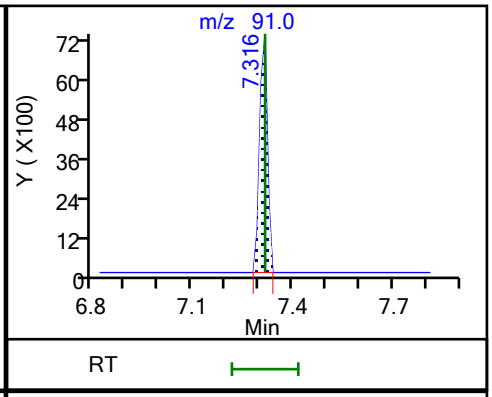
Eurofins TestAmerica, Canton

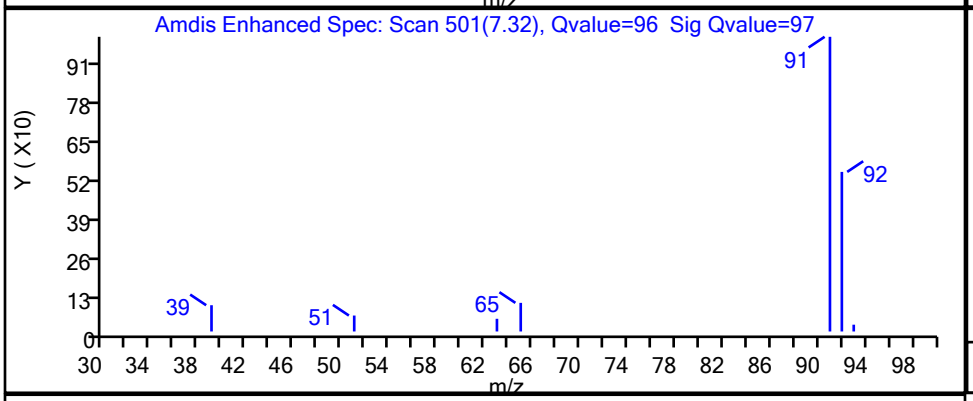
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35621.D

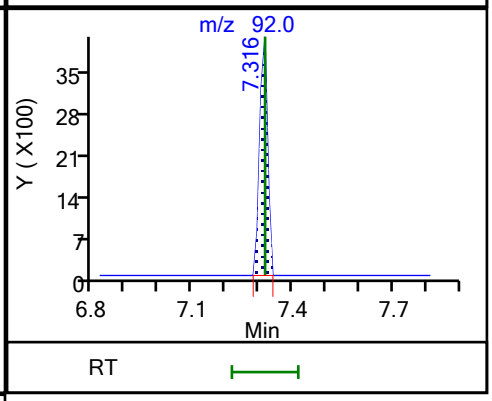
Injection Date:	11-Mar-2021 14:37:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-6	Lab Sample ID:	240-145599-6		
Client ID:	MSA-SW38B-030821				
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

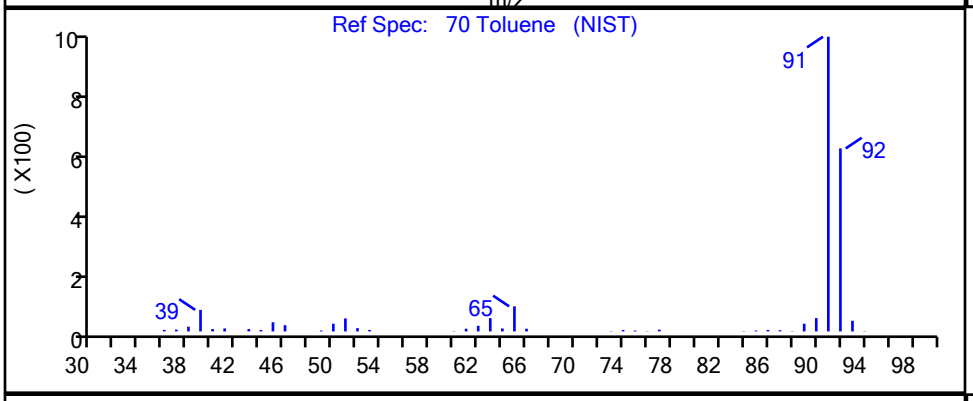
70 Toluene, CAS: 108-88-3

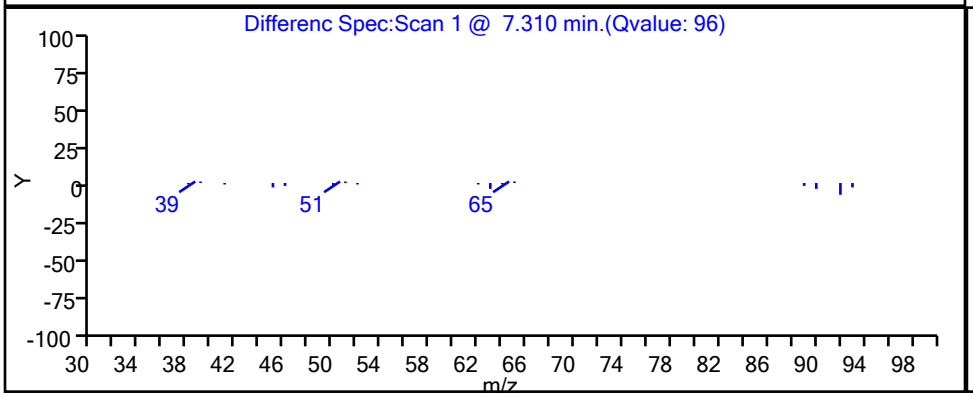


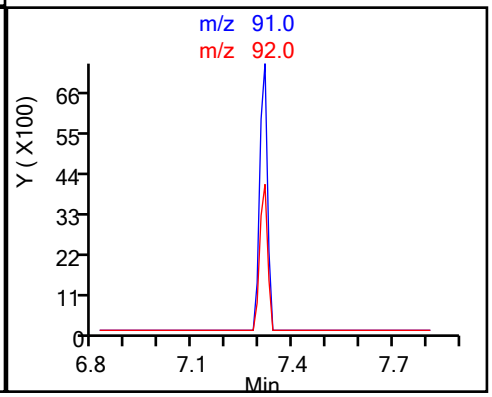












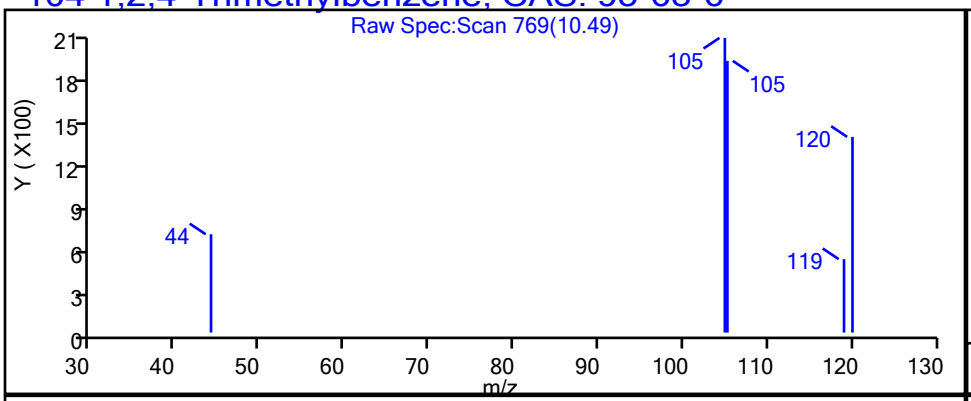
Report Date: 12-Mar-2021 08:54:01 Chrom Revision: 2.3 05-Feb-2021 00:13:28

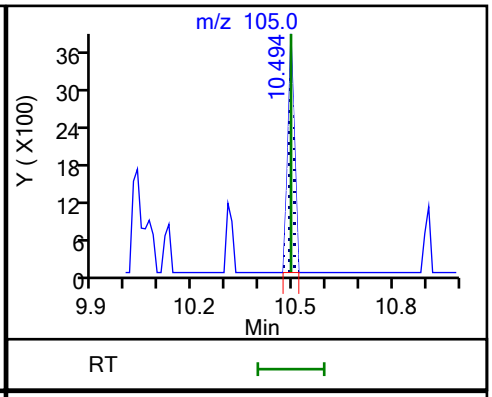
Eurofins TestAmerica, Canton

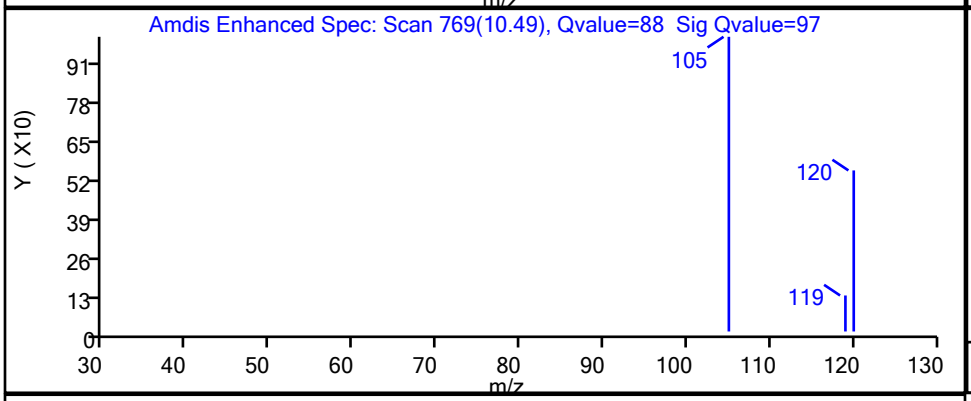
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35621.D

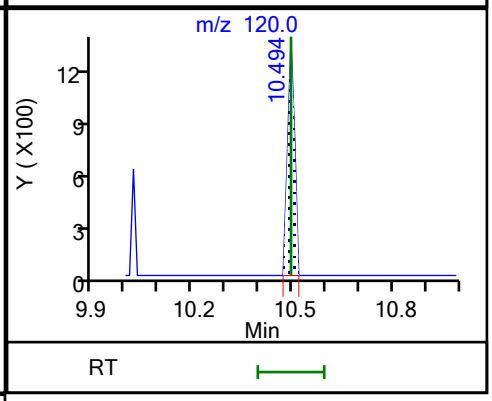
Injection Date:	11-Mar-2021 14:37:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-6	Lab Sample ID:	240-145599-6		
Client ID:	MSA-SW38B-030821				
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

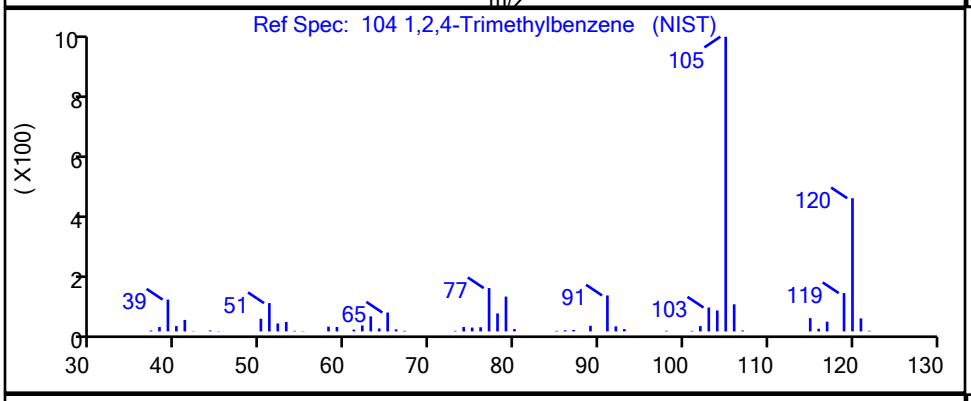
104 1,2,4-Trimethylbenzene, CAS: 95-63-6

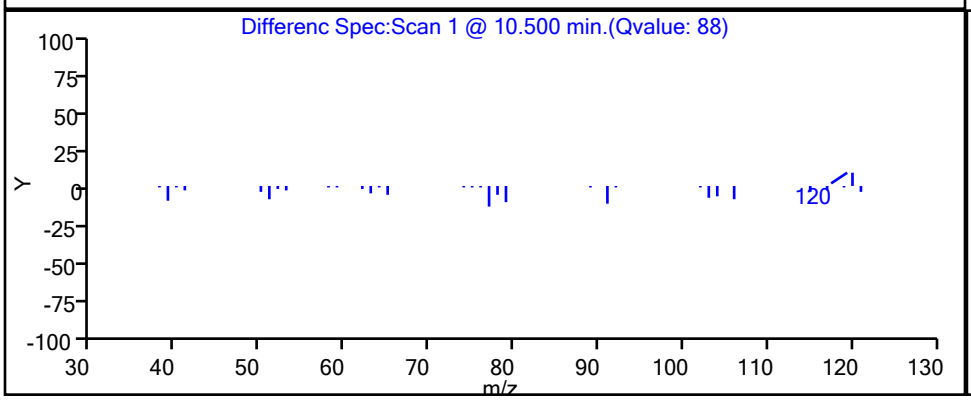


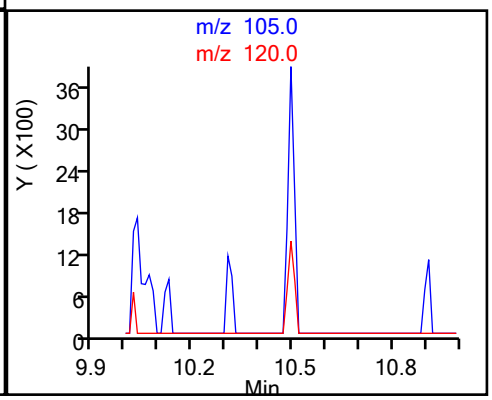












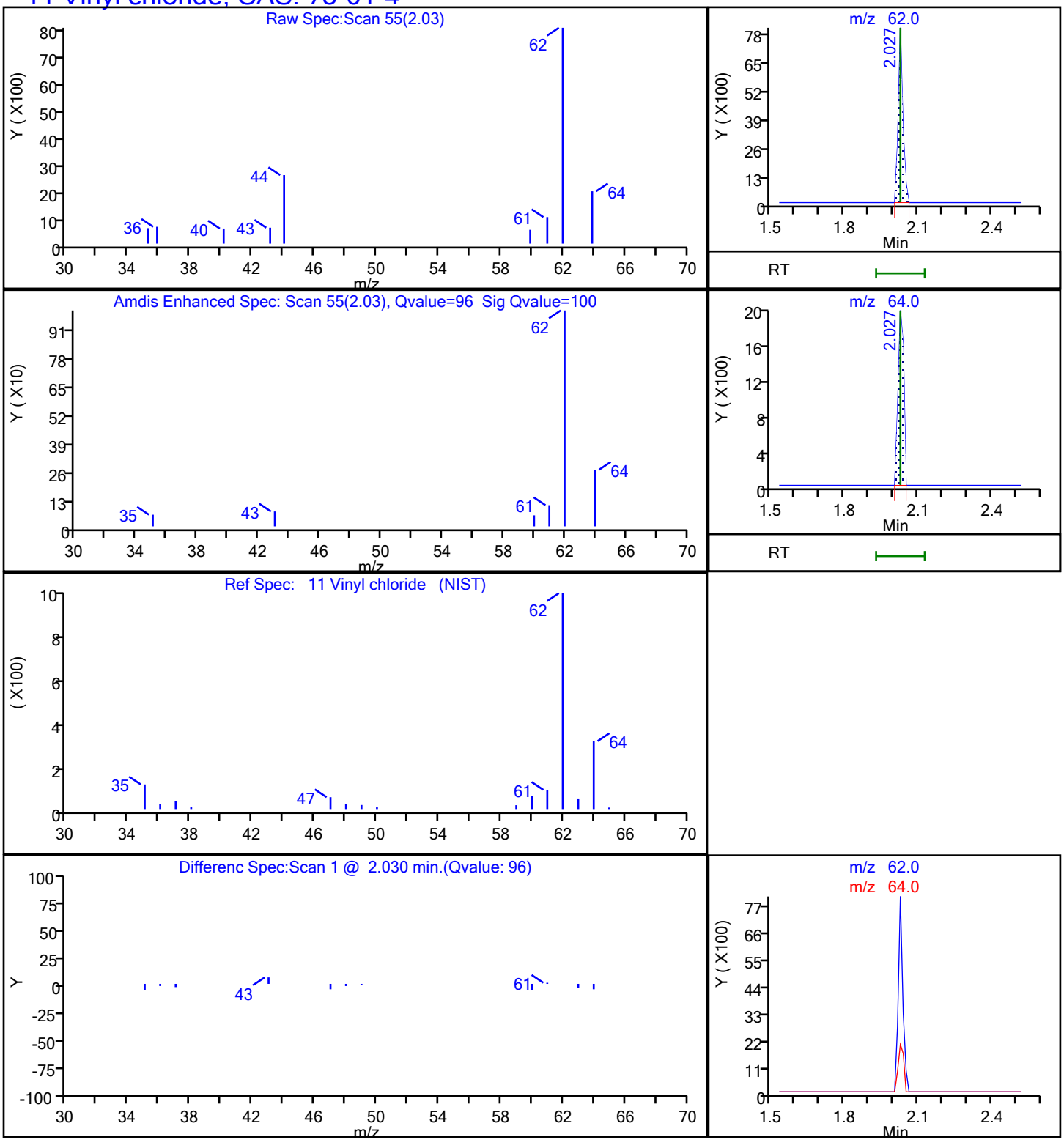
Report Date: 12-Mar-2021 08:54:01 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35621.D

Injection Date:	11-Mar-2021 14:37:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-6	Lab Sample ID:	240-145599-6		
Client ID:	MSA-SW38B-030821				
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38C-030821 Lab Sample ID: 240-145599-7

Matrix: Water Lab File ID: UXM35622.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:59

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.17	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38C-030821 Lab Sample ID: 240-145599-7

Matrix: Water Lab File ID: UXM35622.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:59

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.25	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.12	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.33	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.45	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38C-030821 Lab Sample ID: 240-145599-7

Matrix: Water Lab File ID: UXM35622.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:59

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.37	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	106		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	87		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38C-030821 Lab Sample ID: 240-145599-7

Matrix: Water Lab File ID: UXM35622.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:59

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38C-030821 Lab Sample ID: 240-145599-7

Matrix: Water Lab File ID: UXM35622.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:59

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35622.D
Lims ID: 240-145599-B-7
Client ID: MSA-SW38C-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 15:02:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-017
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:54:45

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	1047958	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	85	905903	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	491957	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	300589	26.3	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	305953	24.7	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1060703	21.8	
$	7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	97	444412	25.3	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	94	8004	0.4514	
	13 Bromomethane	94	2.383	2.371	0.012	10	1135	0.0997	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.296	0.012	98	1924	2.06	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	77	2280	0.1681	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	7
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	98	18728	0.3297	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	95	6506	0.2502	
86 o-Xylene	106	9.190	9.190	0.000	92	2891	0.1164	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.3665	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

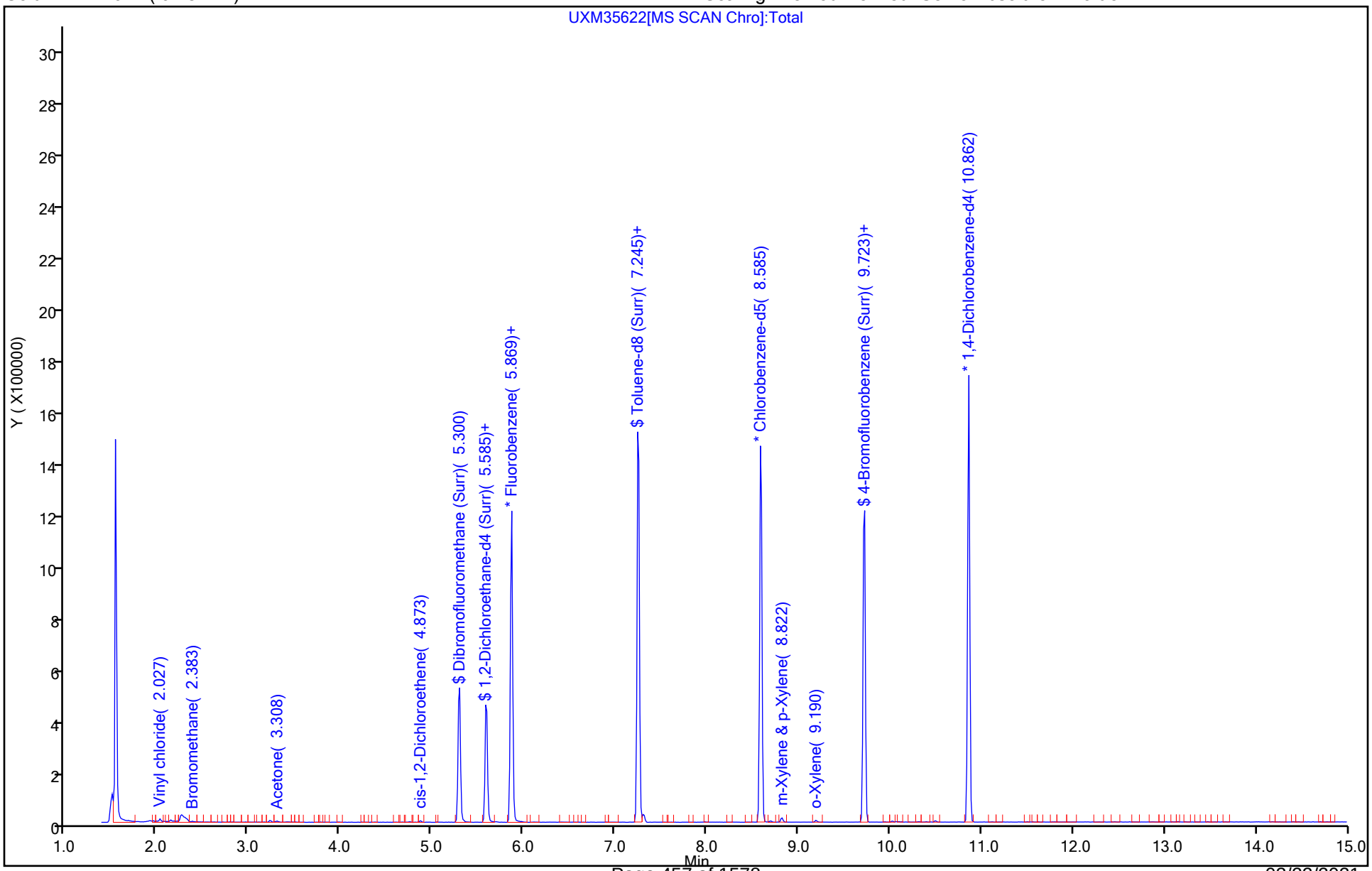
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 12-Mar-2021 08:54:45 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35622.D				
Injection Date:	11-Mar-2021 15:02:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-7	Lab Sample ID:	240-145599-7	Worklist Smp#:	17
Client ID:	MSA-SW38C-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35622.D				
Lims ID:	240-145599-B-7				
Client ID:	MSA-SW38C-030821				
Sample Type:	Client				
Inject. Date:	11-Mar-2021 15:02:30	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107193-017				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	11-Mar-2021 21:07:20	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1602				

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:54:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.3	105.60
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.7	99.30
$ 6 Toluene-d8 (Surr)	24.9	21.8	87.39
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.3	101.44

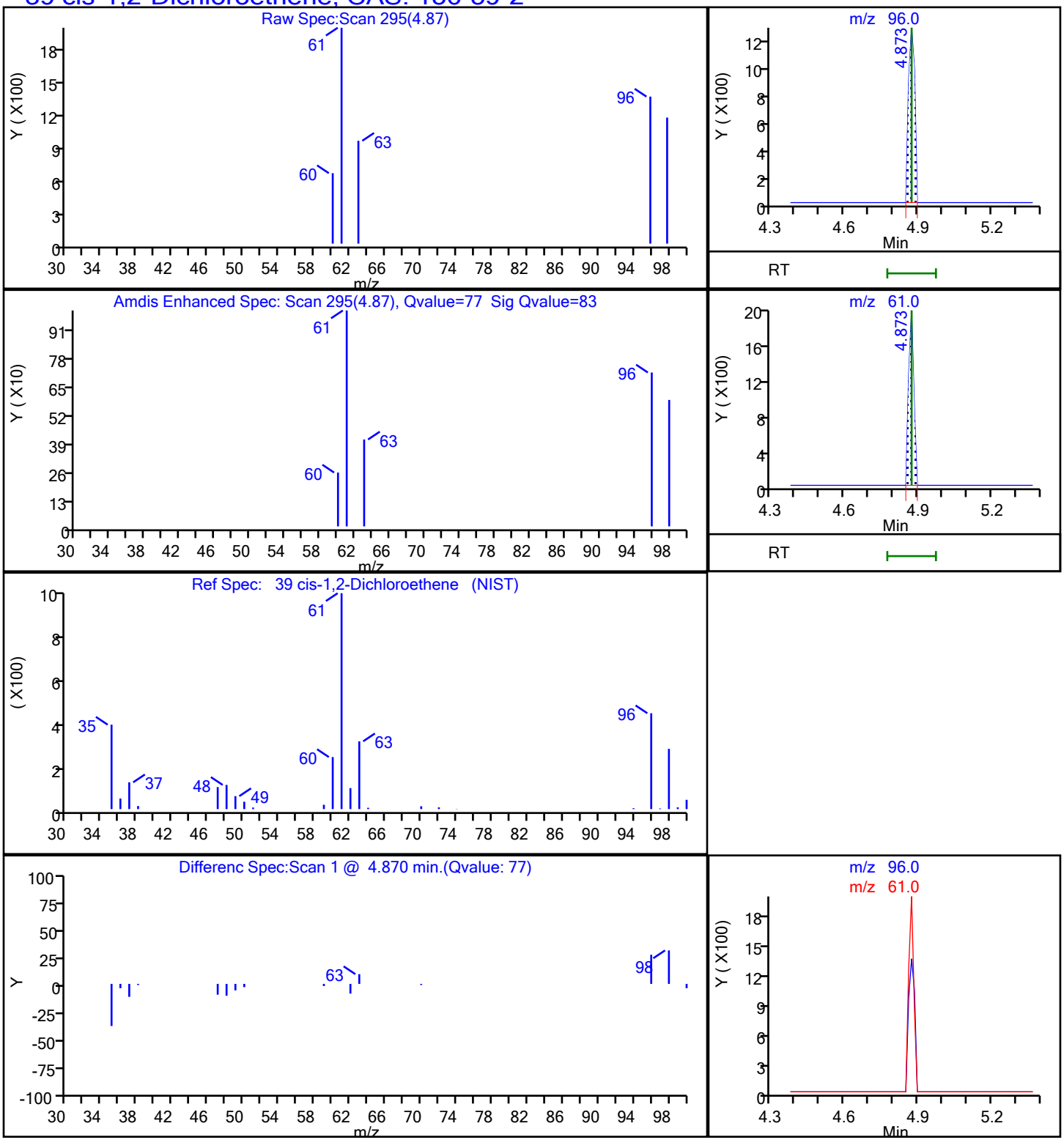
Report Date: 12-Mar-2021 08:54:45 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35622.D

Injection Date:	11-Mar-2021 15:02:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-7	Lab Sample ID:	240-145599-7		
Client ID:	MSA-SW38C-030821				
Operator ID:	001765	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

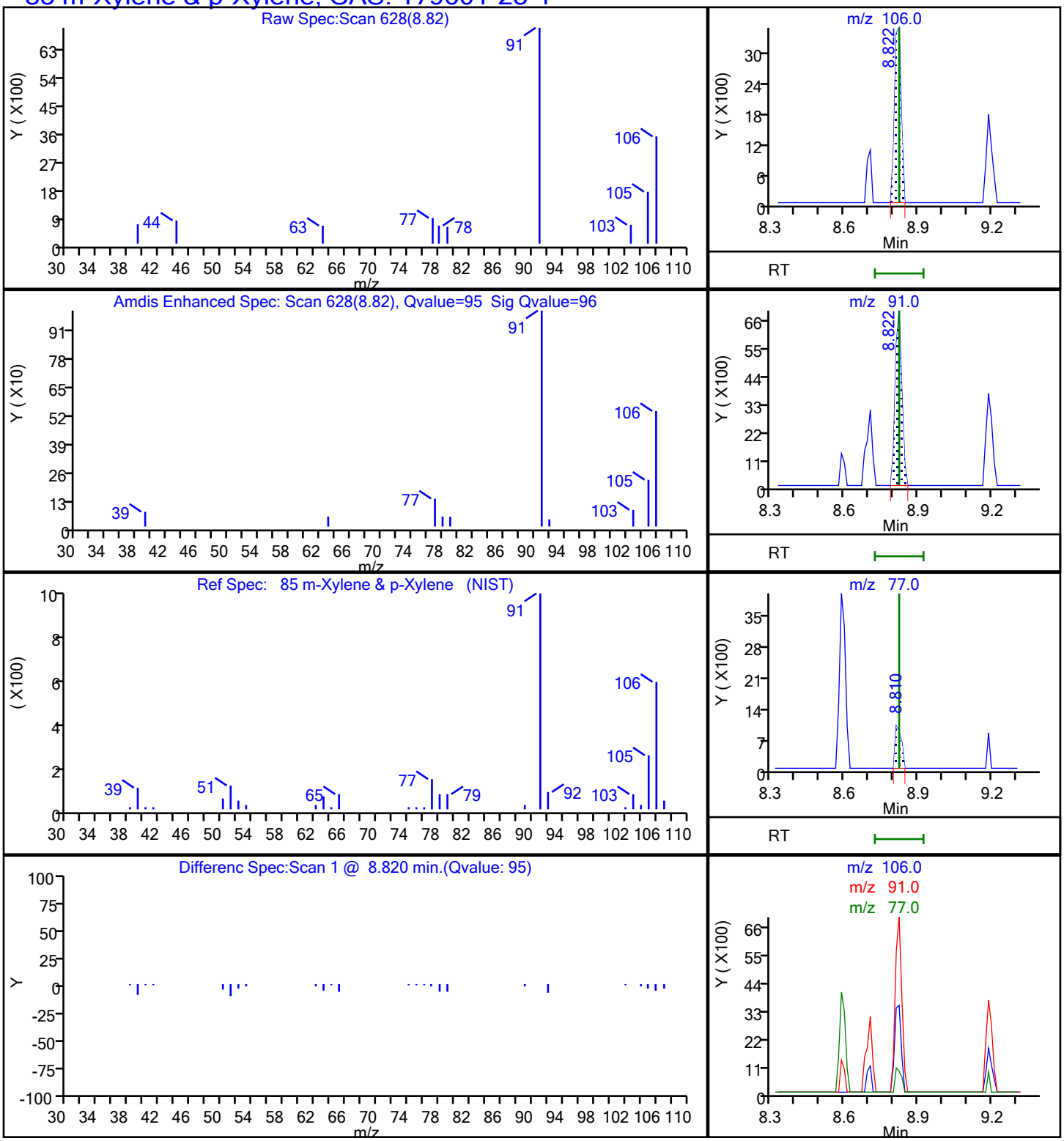
39 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35622.D				
Injection Date:	11-Mar-2021 15:02:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-7	Lab Sample ID:	240-145599-7		
Client ID:	MSA-SW38C-030821				
Operator ID:	001765	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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

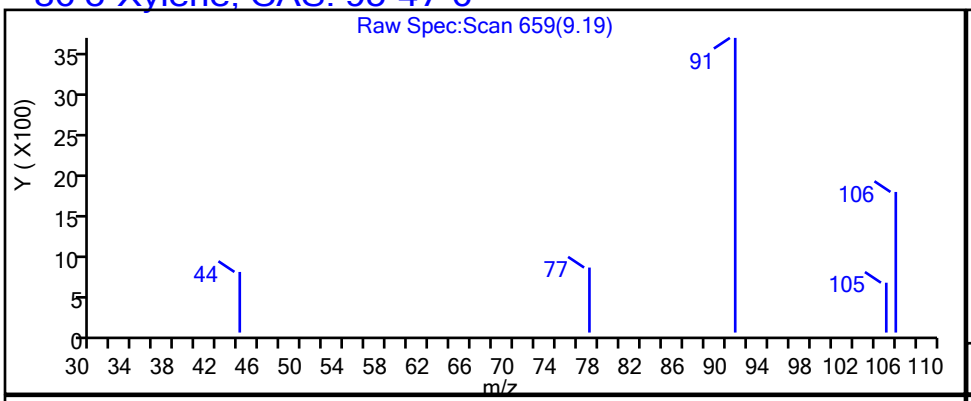


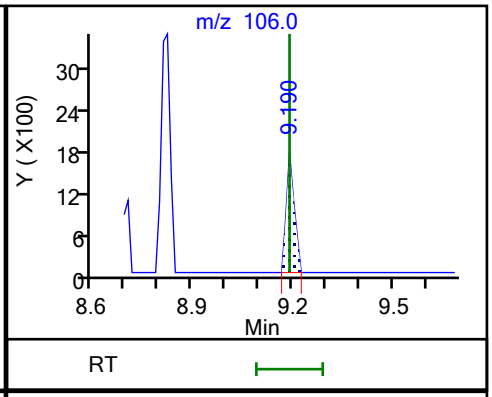
Eurofins TestAmerica, Canton

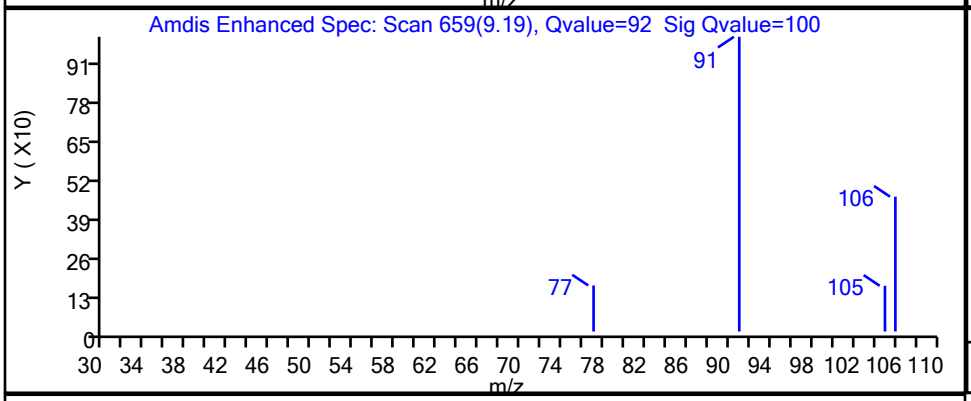
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35622.D

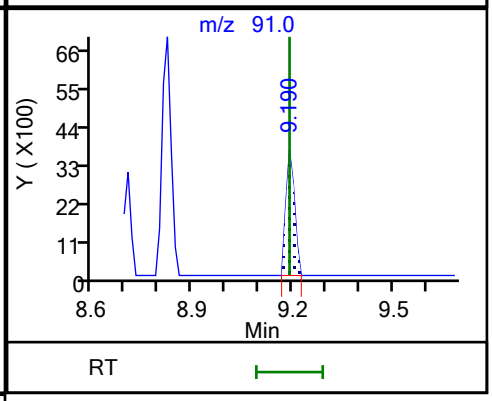
Injection Date:	11-Mar-2021 15:02:30	Instrument ID:	A3UX16
Lims ID:	240-145599-B-7	Lab Sample ID:	240-145599-7
Client ID:	MSA-SW38C-030821		
Operator ID:	001765	ALS Bottle#:	17 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

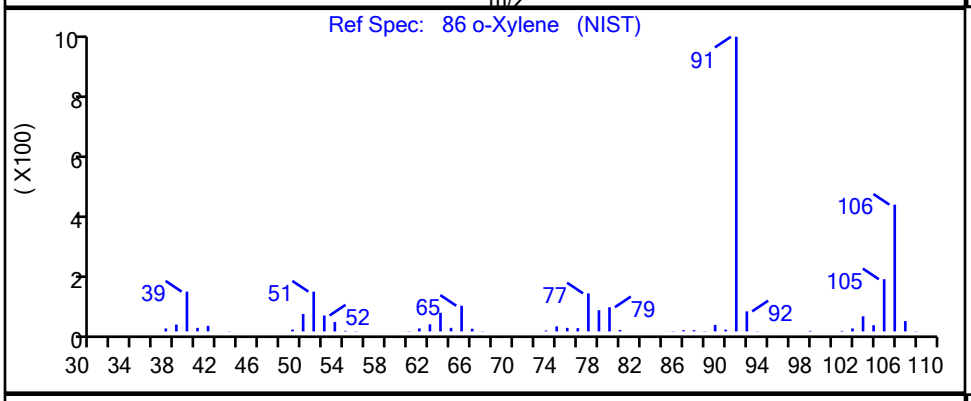
86 o-Xylene, CAS: 95-47-6

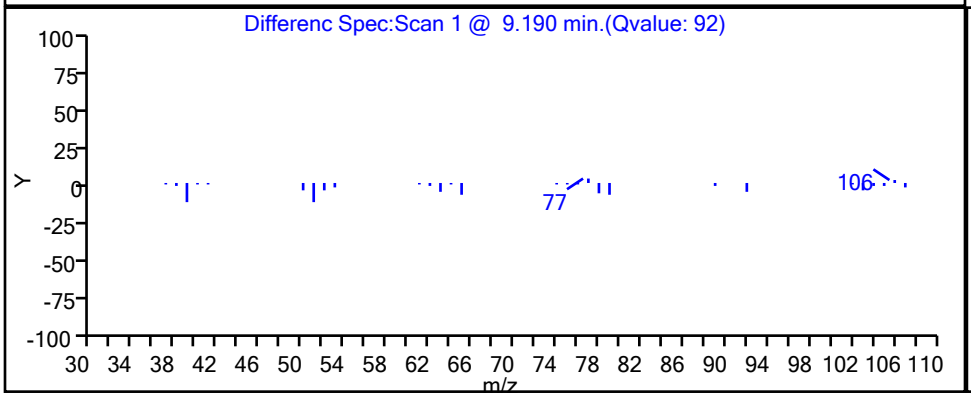


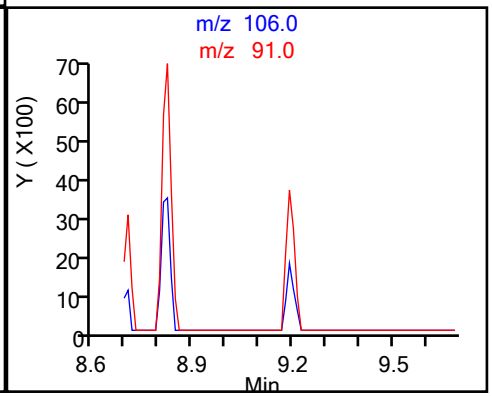








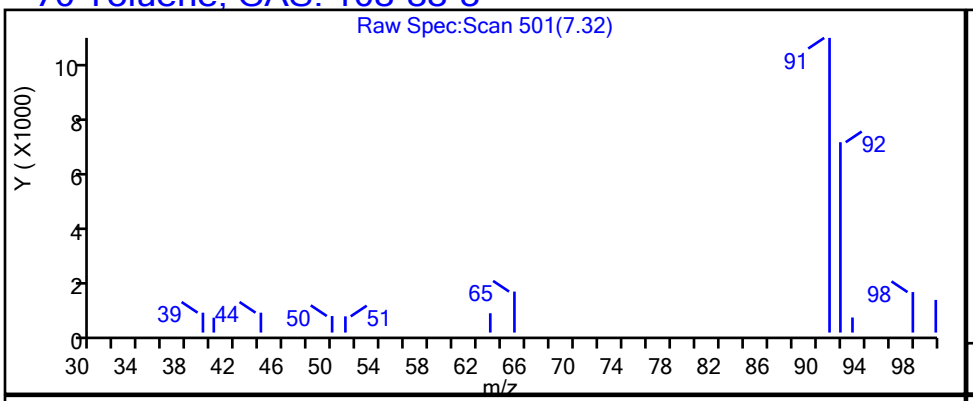


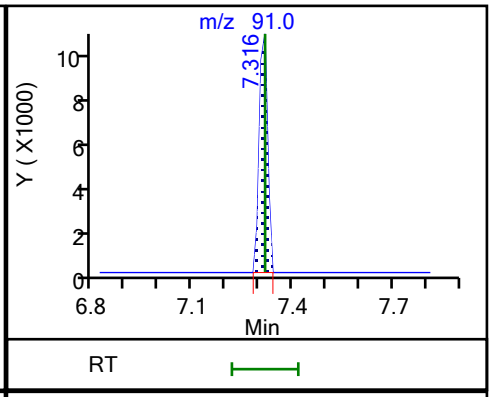


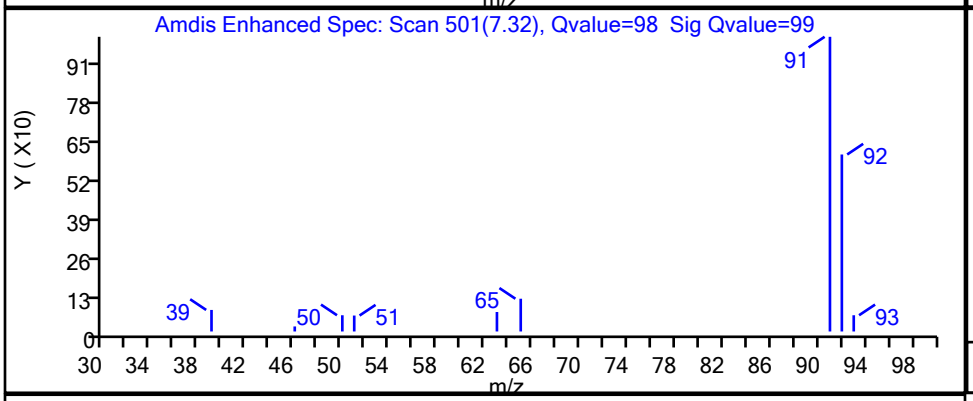
Eurofins TestAmerica, Canton

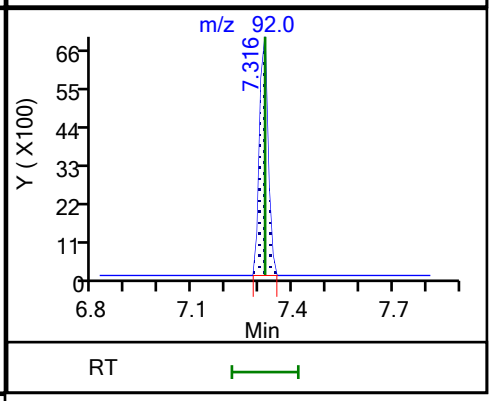
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35622.D				
Injection Date:	11-Mar-2021 15:02:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-7	Lab Sample ID:	240-145599-7		
Client ID:	MSA-SW38C-030821				
Operator ID:	001765	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

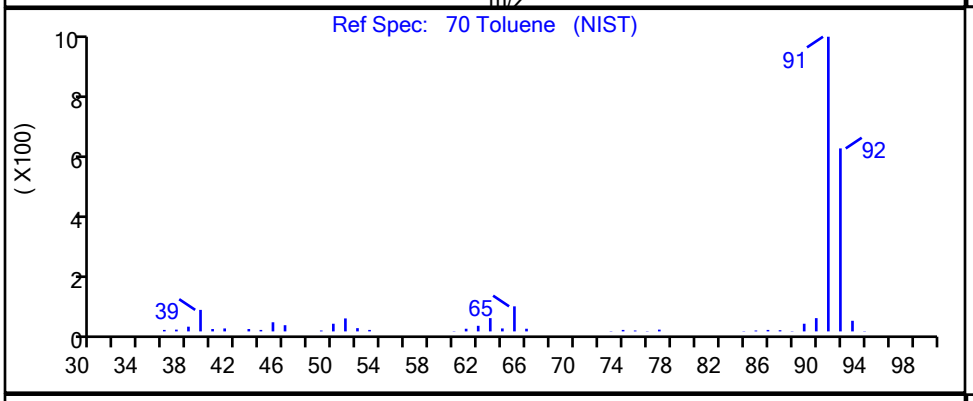
70 Toluene, CAS: 108-88-3

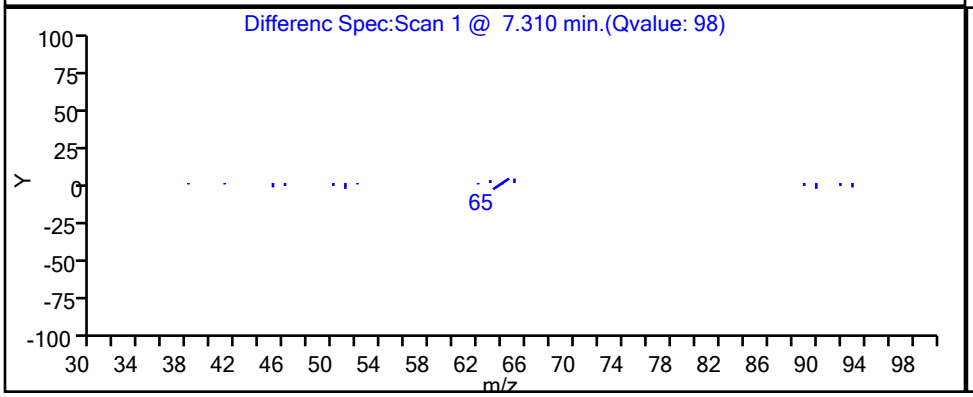


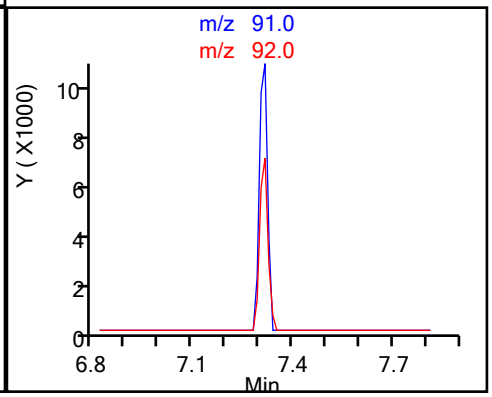












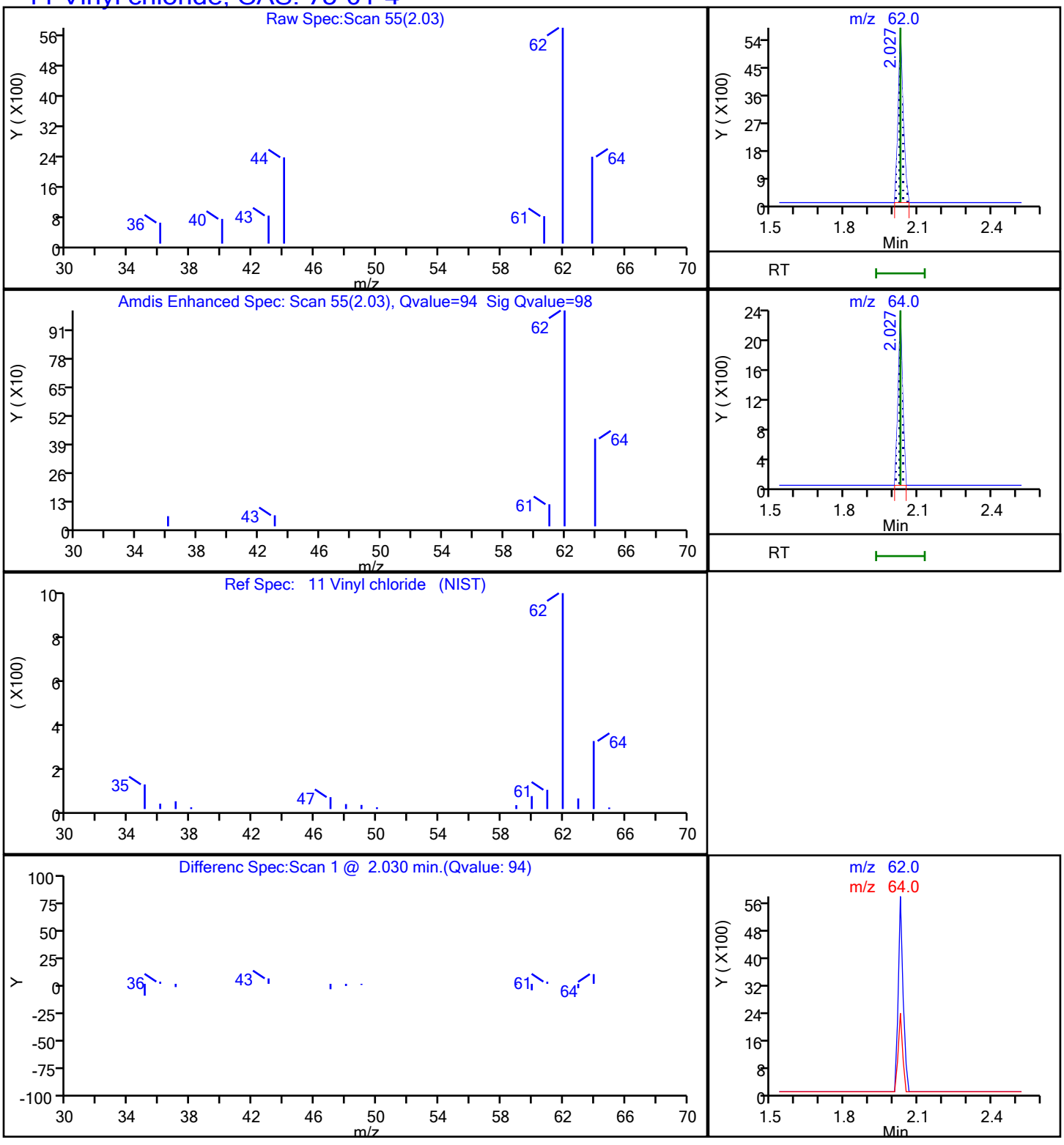
Report Date: 12-Mar-2021 08:54:45 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35622.D

Injection Date:	11-Mar-2021 15:02:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-7	Lab Sample ID:	240-145599-7		
Client ID:	MSA-SW38C-030821				
Operator ID:	001765	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38D-030821 Lab Sample ID: 240-145599-8

Matrix: Water Lab File ID: UXM35623.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:02

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.18	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38D-030821 Lab Sample ID: 240-145599-8

Matrix: Water Lab File ID: UXM35623.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:02

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.19	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.21	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.45	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38D-030821 Lab Sample ID: 240-145599-8

Matrix: Water Lab File ID: UXM35623.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:02

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.19	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		47-134
1868-53-7	Dibromofluoromethane (Surr)	102		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38D-030821 Lab Sample ID: 240-145599-8

Matrix: Water Lab File ID: UXM35623.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:02

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW38D-030821 Lab Sample ID: 240-145599-8

Matrix: Water Lab File ID: UXM35623.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:02

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35623.D
Lims ID: 240-145599-B-8
Client ID: MSA-SW38D-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 15:27:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-018
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:55:24

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	1153211	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	83	957018	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	514639	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	318600	25.3	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	97	342684	25.2	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	93	1145739	22.3	
$	7 4-Bromofluorobenzene (Surr)	95	9.712	9.712	0.000	94	476463	25.7	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	93	8782	0.4501	
	13 Bromomethane	94	2.371	2.371	0.000	3	1470	0.1173	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.296	0.012	98	1839	1.79	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	70	2705	0.1813	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.304	7.316	-0.012	93	12320	0.2053	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106	8.810	8.822	-0.012	94	5097	0.1855	
86 o-Xylene	106		9.190				ND	7
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.1855	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

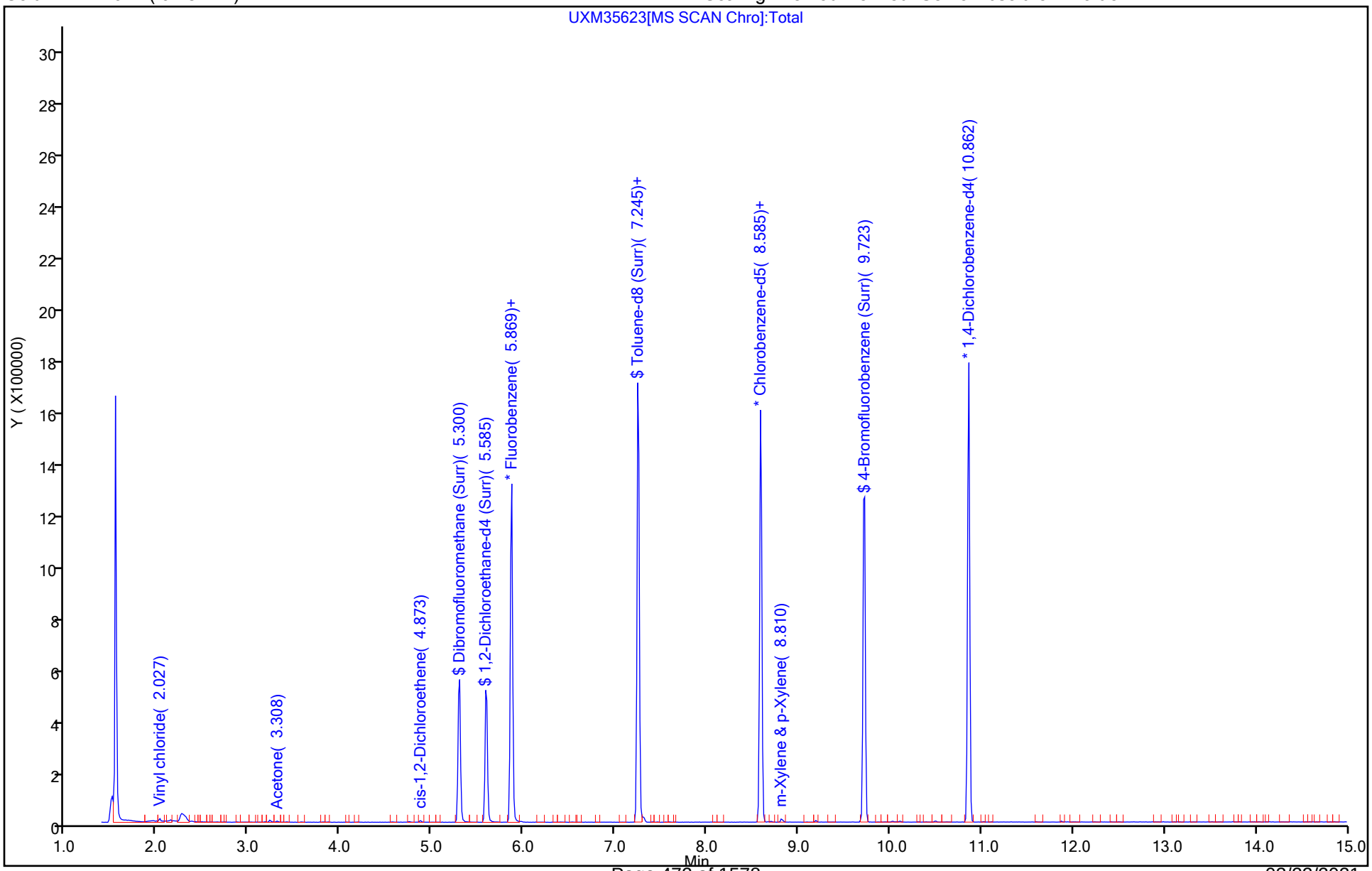
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 12-Mar-2021 08:55:24 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35623.D				
Injection Date:	11-Mar-2021 15:27:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-8	Lab Sample ID:	240-145599-8	Worklist Smp#:	18
Client ID:	MSA-SW38D-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35623.D				
Lims ID:	240-145599-B-8				
Client ID:	MSA-SW38D-030821				
Sample Type:	Client				
Inject. Date:	11-Mar-2021 15:27:30	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107193-018				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	11-Mar-2021 21:07:20	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1602				

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:55:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	25.3	101.71
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.2	101.07
$ 6 Toluene-d8 (Surr)	24.9	22.3	89.35
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.7	102.95

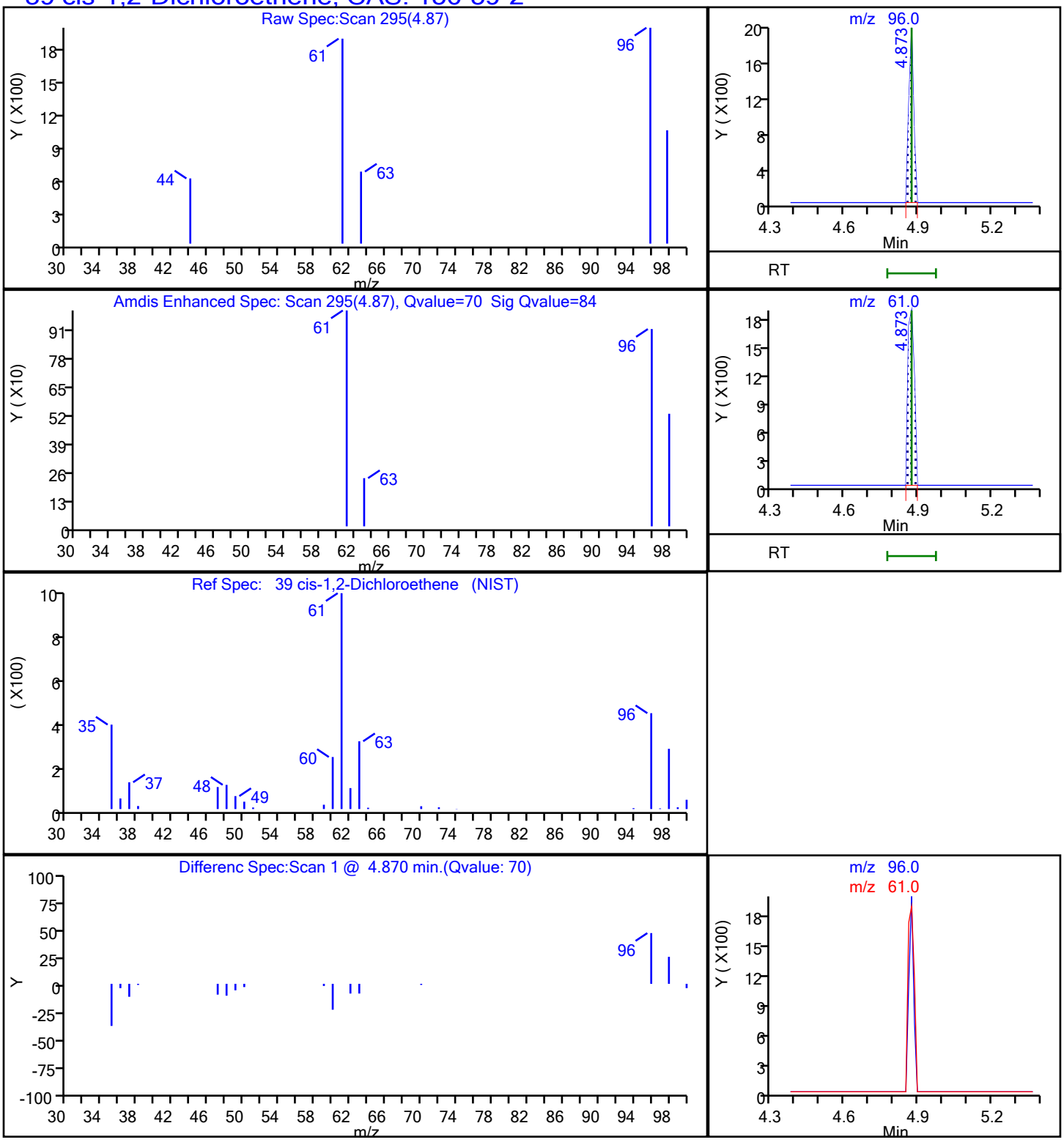
Report Date: 12-Mar-2021 08:55:24 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35623.D

Injection Date:	11-Mar-2021 15:27:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-8	Lab Sample ID:	240-145599-8		
Client ID:	MSA-SW38D-030821				
Operator ID:	001765	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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



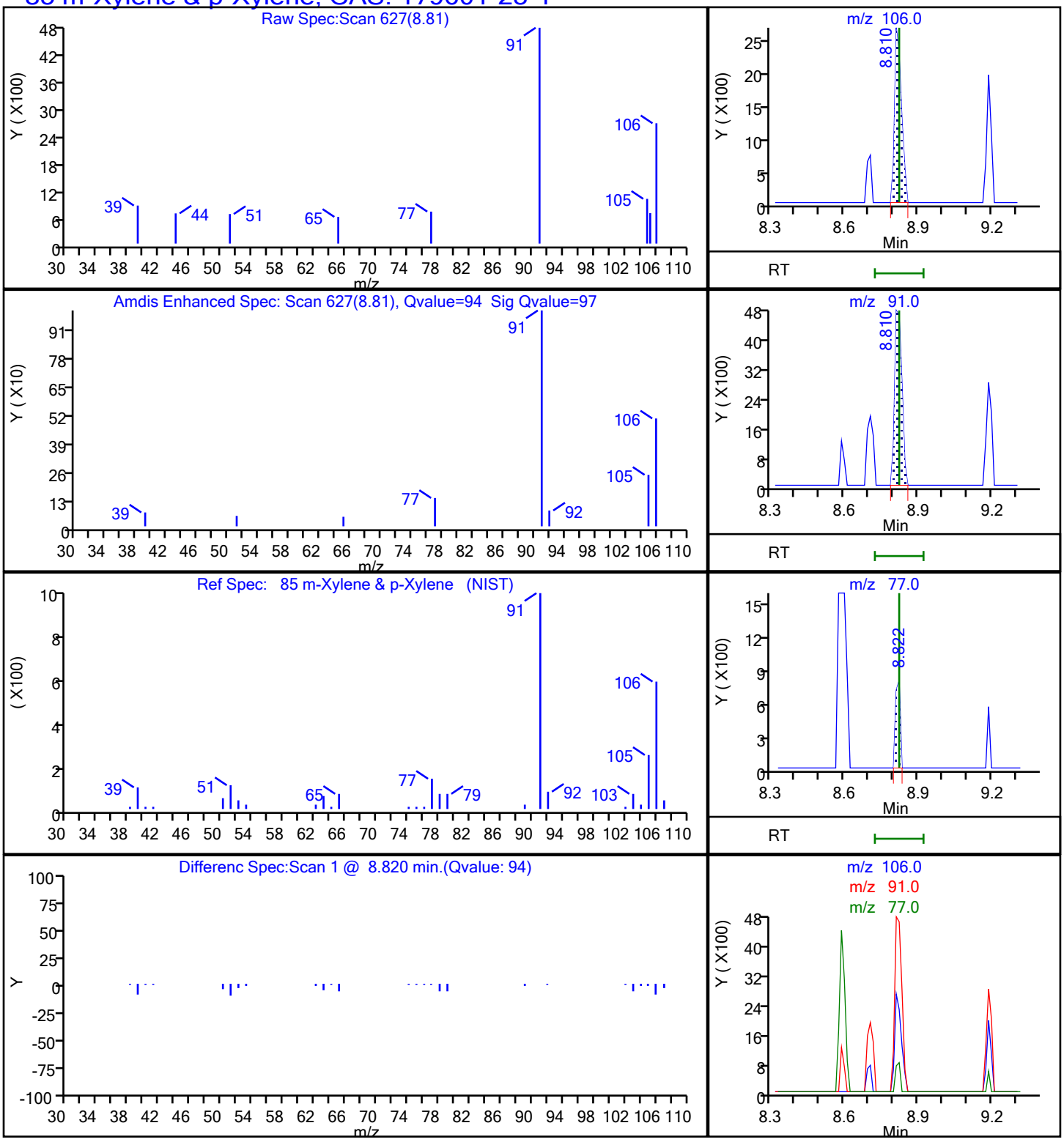
Report Date: 12-Mar-2021 08:55:24 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35623.D

Injection Date:	11-Mar-2021 15:27:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-8	Lab Sample ID:	240-145599-8		
Client ID:	MSA-SW38D-030821				
Operator ID:	001765	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

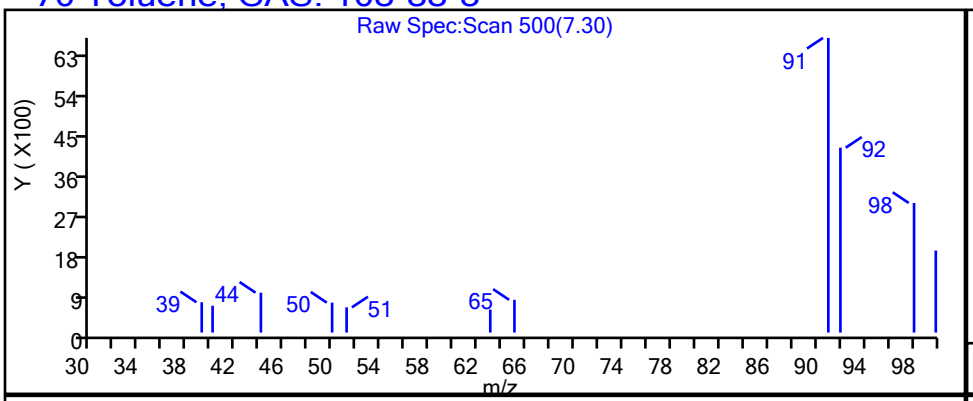
85 m-Xylene & p-Xylene, CAS: 179601-23-1

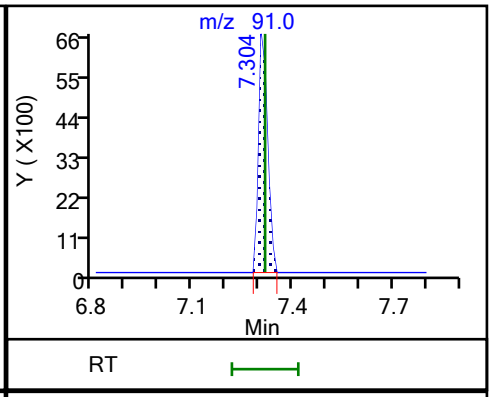


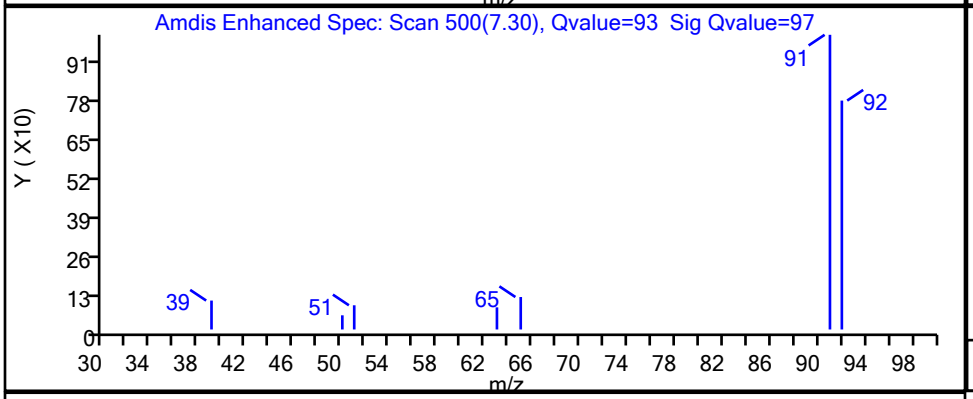
Eurofins TestAmerica, Canton

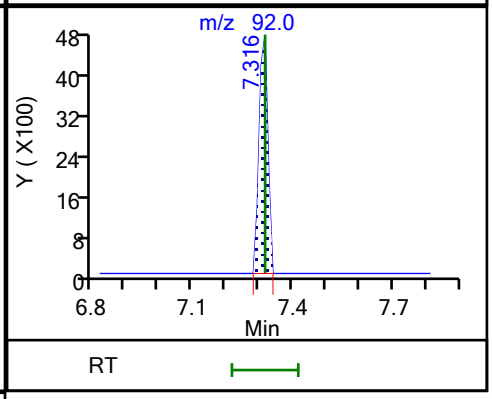
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35623.D				
Injection Date:	11-Mar-2021 15:27:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-8	Lab Sample ID:	240-145599-8		
Client ID:	MSA-SW38D-030821				
Operator ID:	001765	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

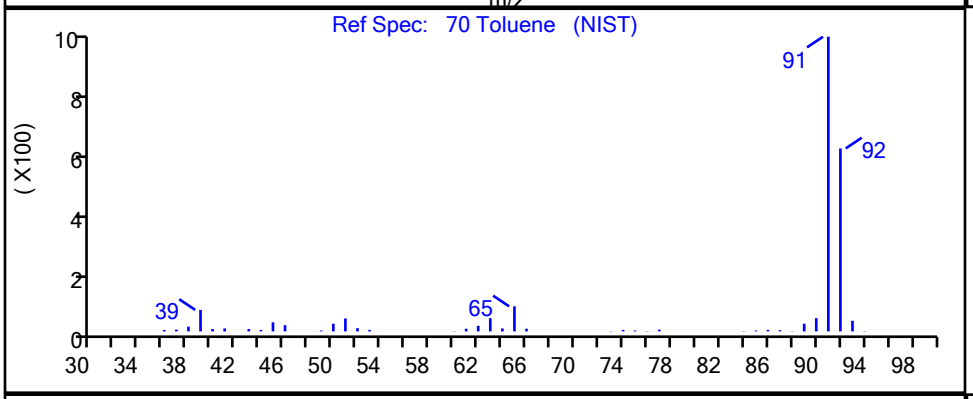
70 Toluene, CAS: 108-88-3

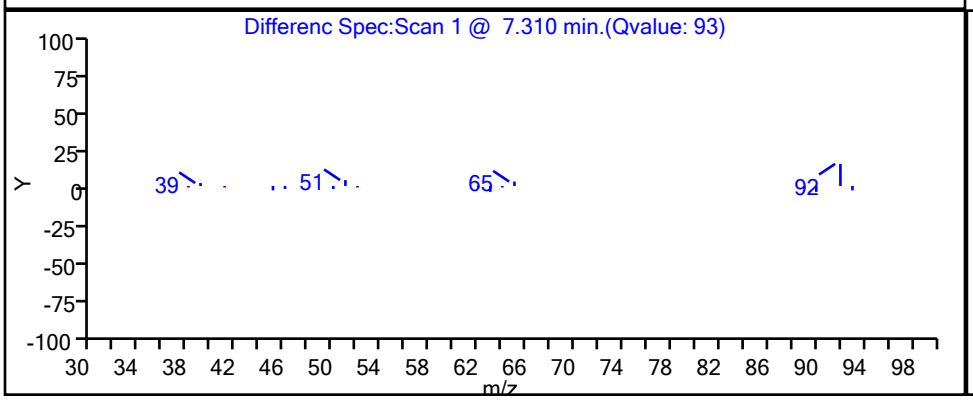


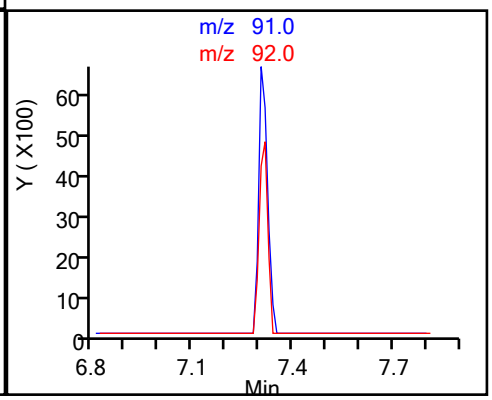












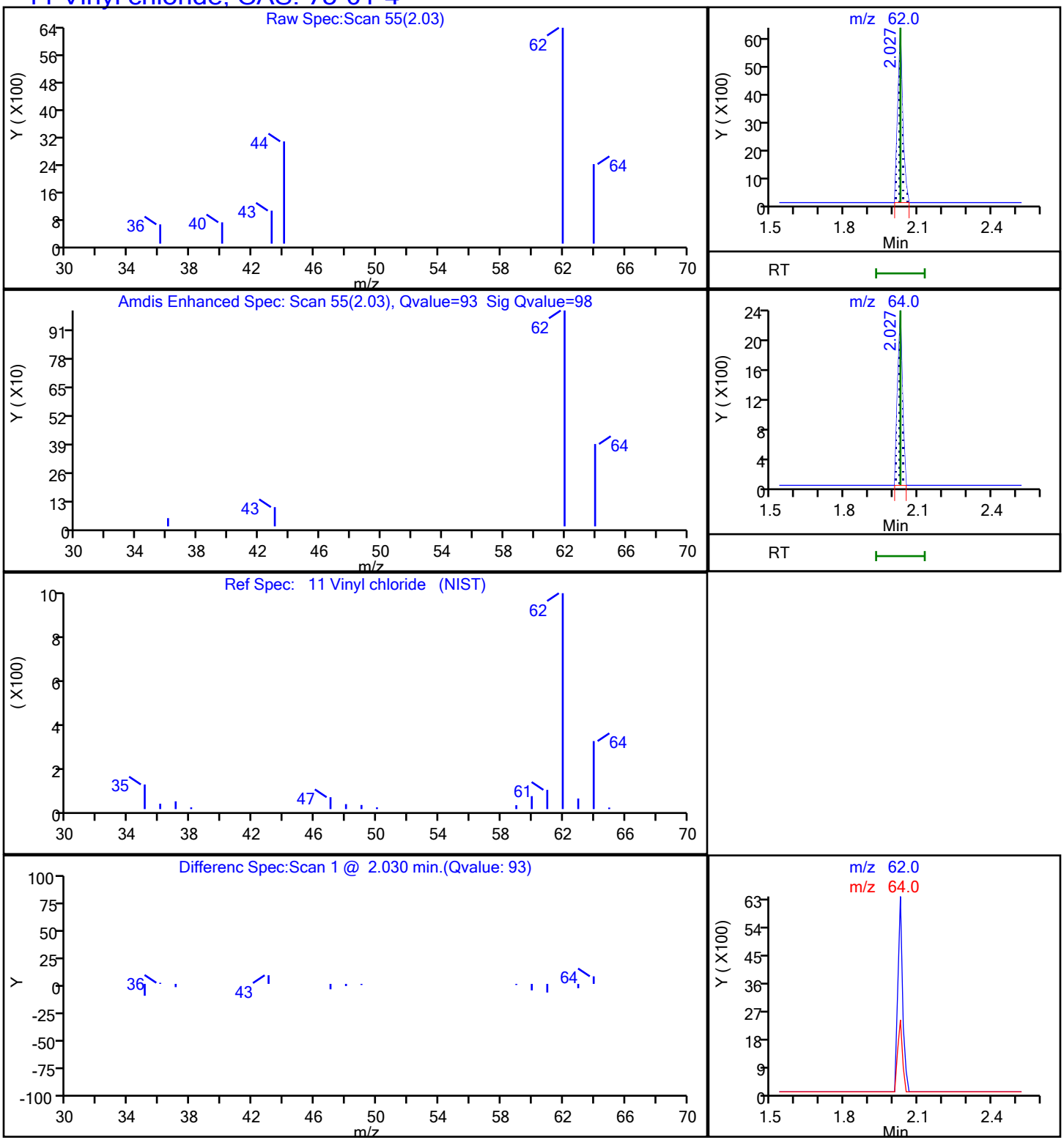
Report Date: 12-Mar-2021 08:55:24 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35623.D

Injection Date:	11-Mar-2021 15:27:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-8	Lab Sample ID:	240-145599-8		
Client ID:	MSA-SW38D-030821				
Operator ID:	001765	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40A-030821 Lab Sample ID: 240-145599-9

Matrix: Water Lab File ID: UXM35624.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:13

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	2.1		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40A-030821 Lab Sample ID: 240-145599-9

Matrix: Water Lab File ID: UXM35624.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:13

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.13	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.19	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	4.5		1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40A-030821 Lab Sample ID: 240-145599-9

Matrix: Water Lab File ID: UXM35624.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:13

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	104		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40A-030821 Lab Sample ID: 240-145599-9

Matrix: Water Lab File ID: UXM35624.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:13

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40A-030821 Lab Sample ID: 240-145599-9

Matrix: Water Lab File ID: UXM35624.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:13

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 15:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35624.D
Lims ID: 240-145599-B-9
Client ID: MSA-SW40A-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 15:51:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-019
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:56:05

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	1099575	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	85	931095	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	503983	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	311301	26.0	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	97	321990	24.8	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1092540	21.8	
$	7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	95	460449	25.5	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	98	84057	4.52	
	13 Bromomethane	94	2.383	2.371	0.012	4	1617	0.1354	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.320	3.296	0.024	95	2640	2.69	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	76	29352	2.06	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	97	10930	0.1872	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	7
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	92	3402	0.1273	
86 o-Xylene	106		9.190				ND	7
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.1273	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

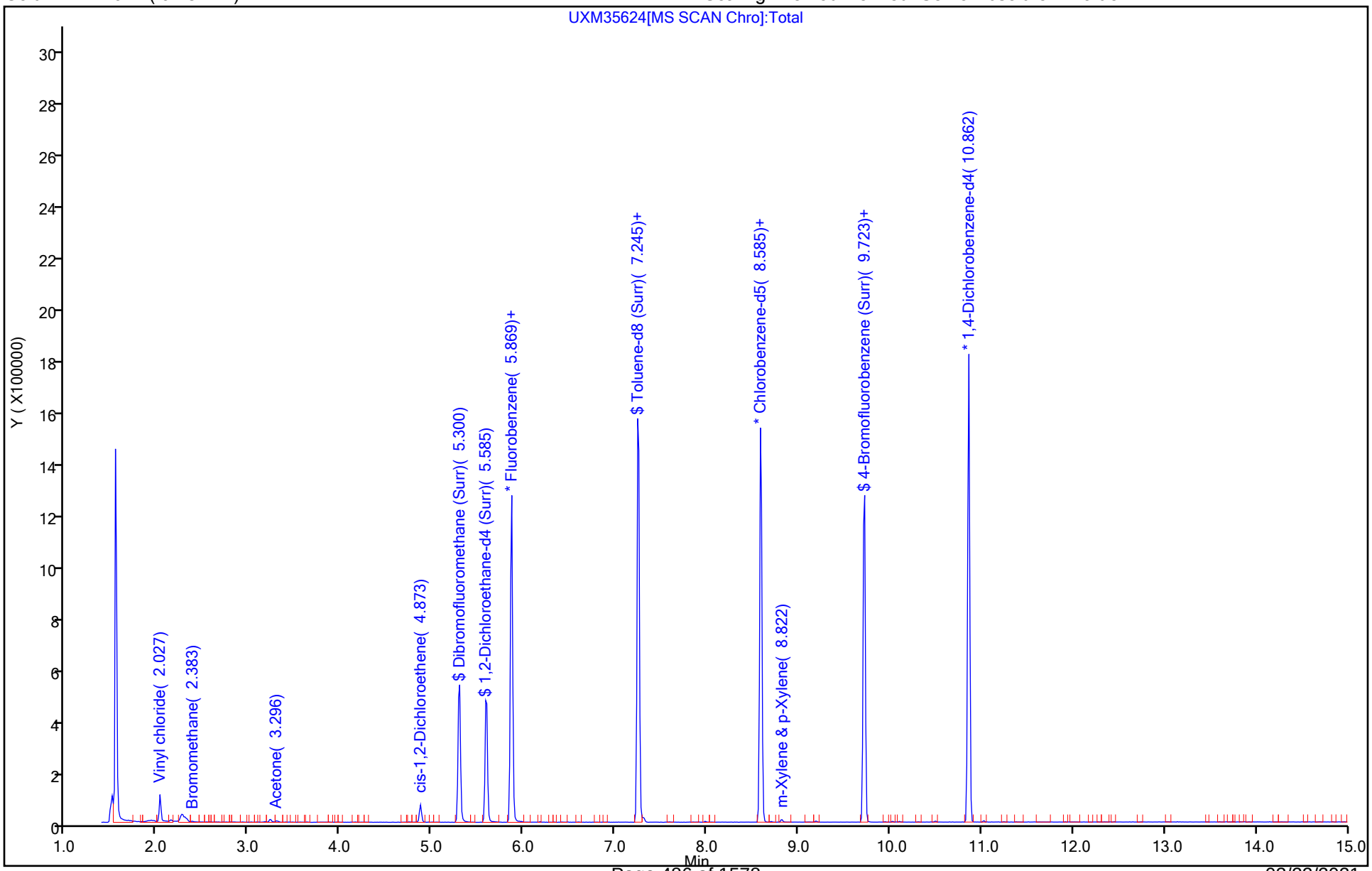
Report Date: 12-Mar-2021 08:56:05 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35624.D

Injection Date:	11-Mar-2021 15:51:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-9	Lab Sample ID:	240-145599-9	Worklist Smp#:	19
Client ID:	MSA-SW40A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35624.D
Lims ID: 240-145599-B-9
Client ID: MSA-SW40A-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 15:51:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-019
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:56:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.0	104.23
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.8	99.59
$ 6 Toluene-d8 (Surr)	24.9	21.8	87.58
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.5	102.26

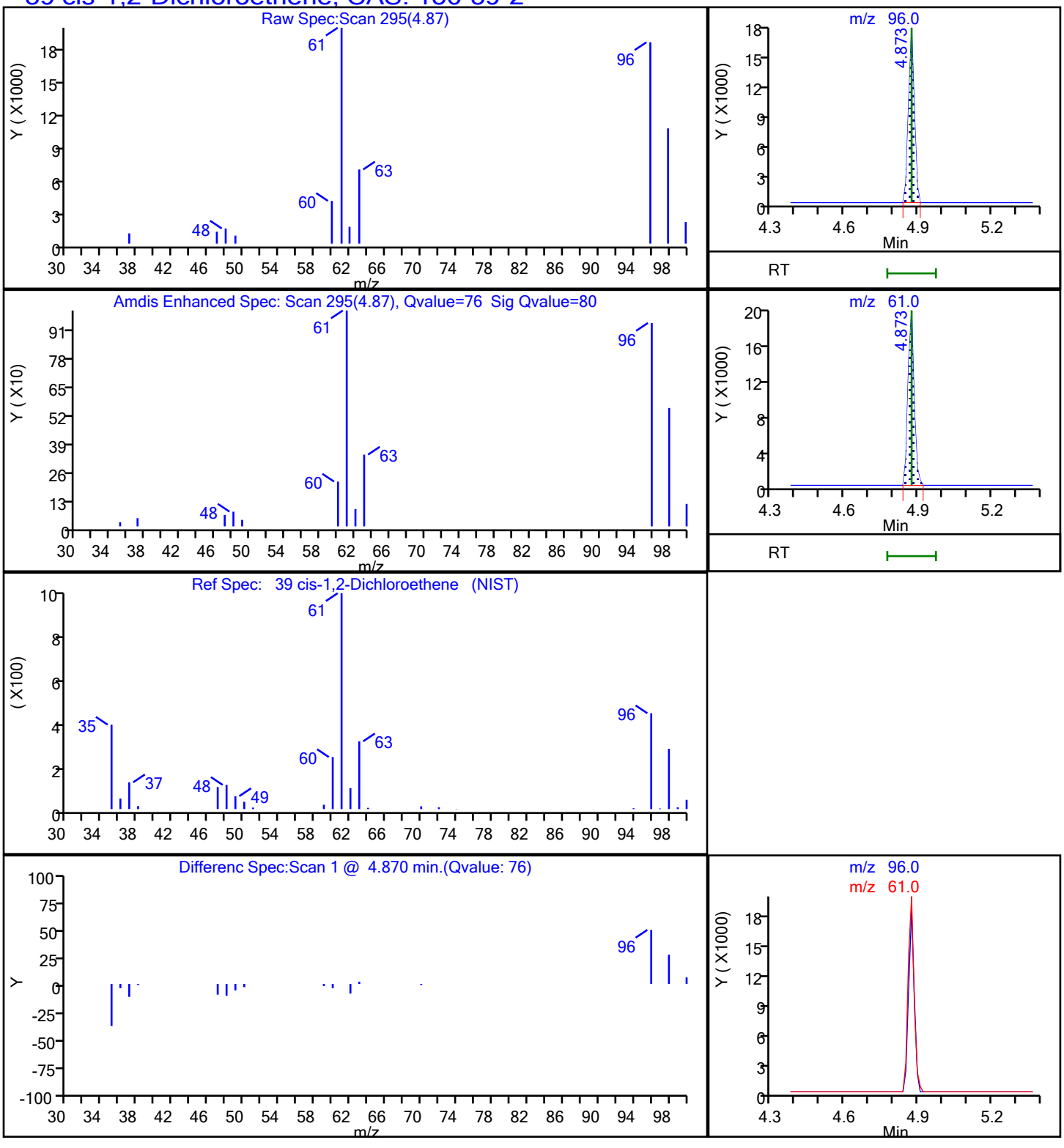
Report Date: 12-Mar-2021 08:56:05 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35624.D

Injection Date:	11-Mar-2021 15:51:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-9	Lab Sample ID:	240-145599-9		
Client ID:	MSA-SW40A-030821				
Operator ID:	001765	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

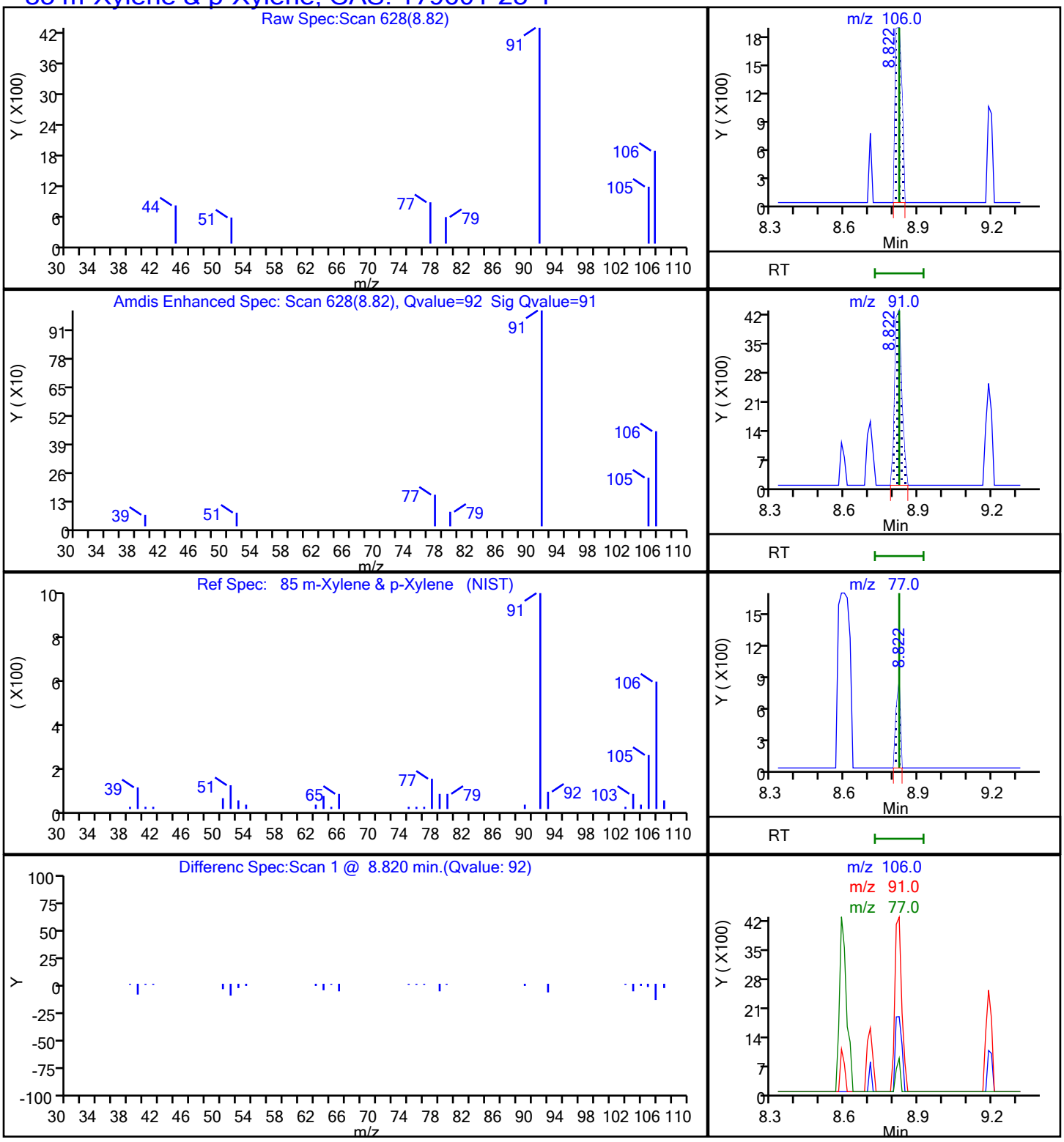
39 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35624.D				
Injection Date:	11-Mar-2021 15:51:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-9	Lab Sample ID:	240-145599-9		
Client ID:	MSA-SW40A-030821				
Operator ID:	001765	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

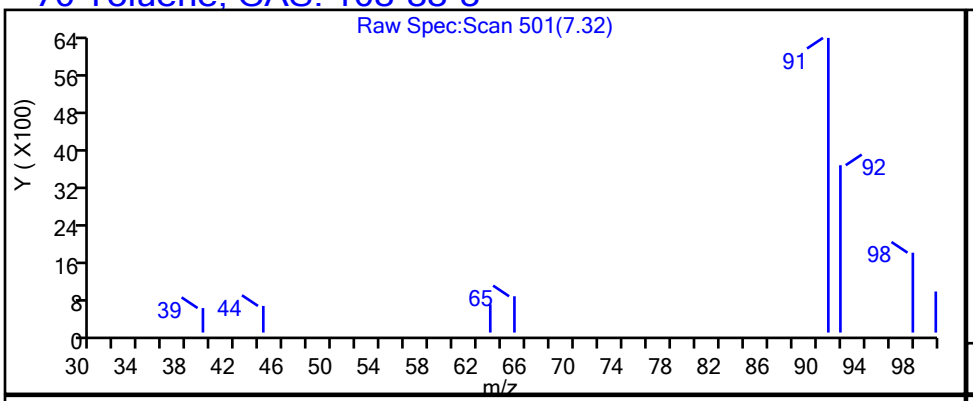
85 m-Xylene & p-Xylene, CAS: 179601-23-1

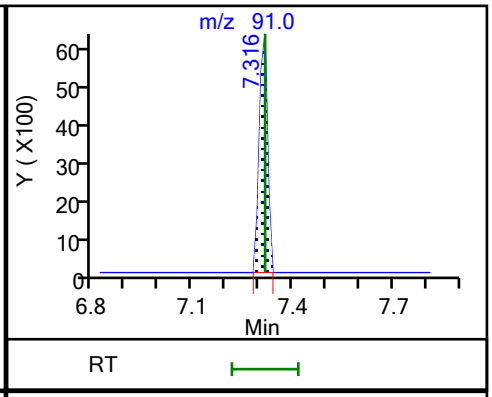


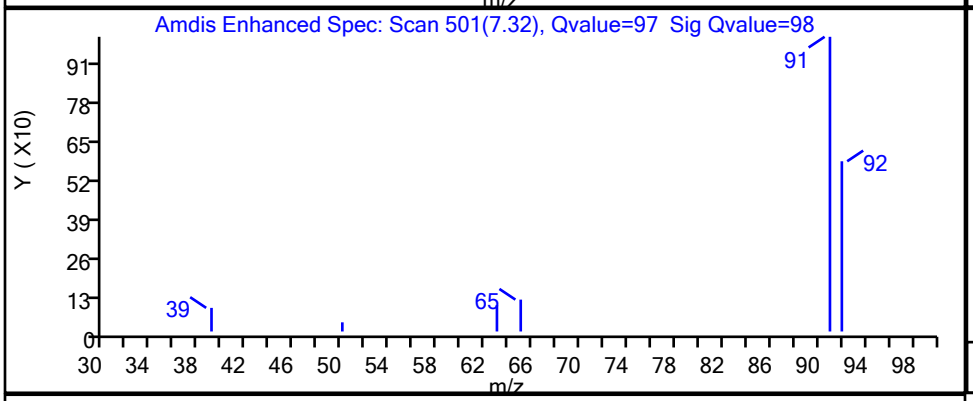
Eurofins TestAmerica, Canton

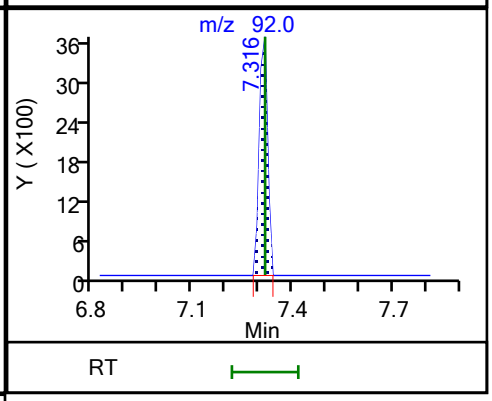
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35624.D				
Injection Date:	11-Mar-2021 15:51:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-9	Lab Sample ID:	240-145599-9		
Client ID:	MSA-SW40A-030821				
Operator ID:	001765	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

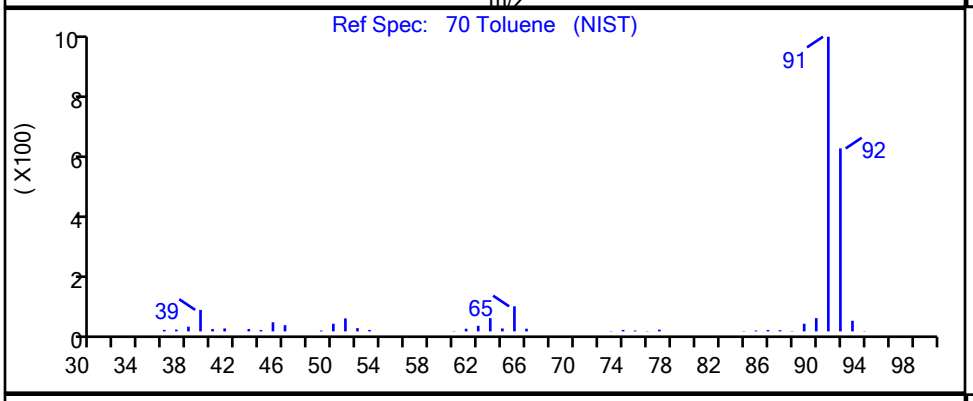
70 Toluene, CAS: 108-88-3

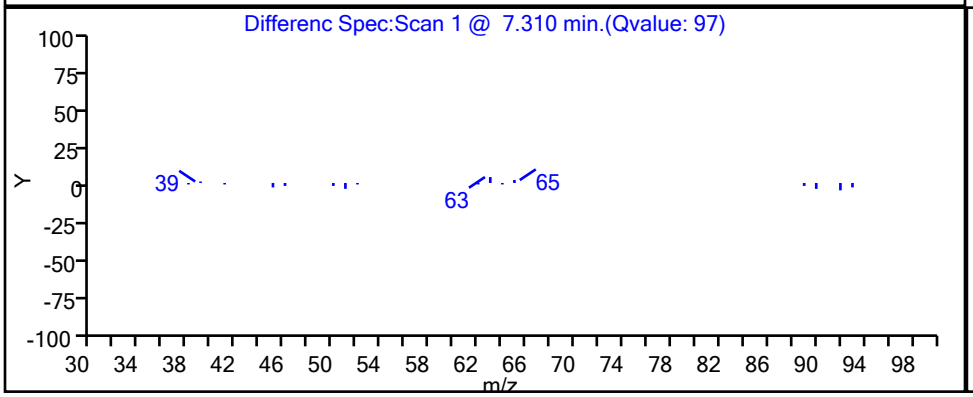


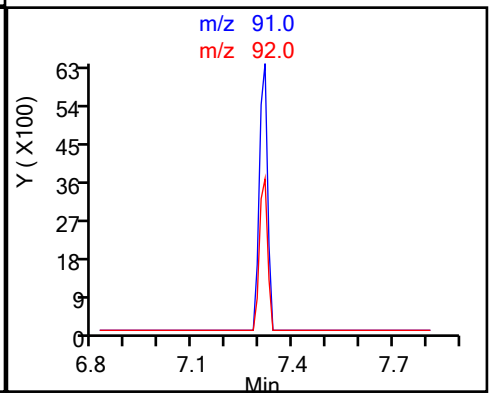












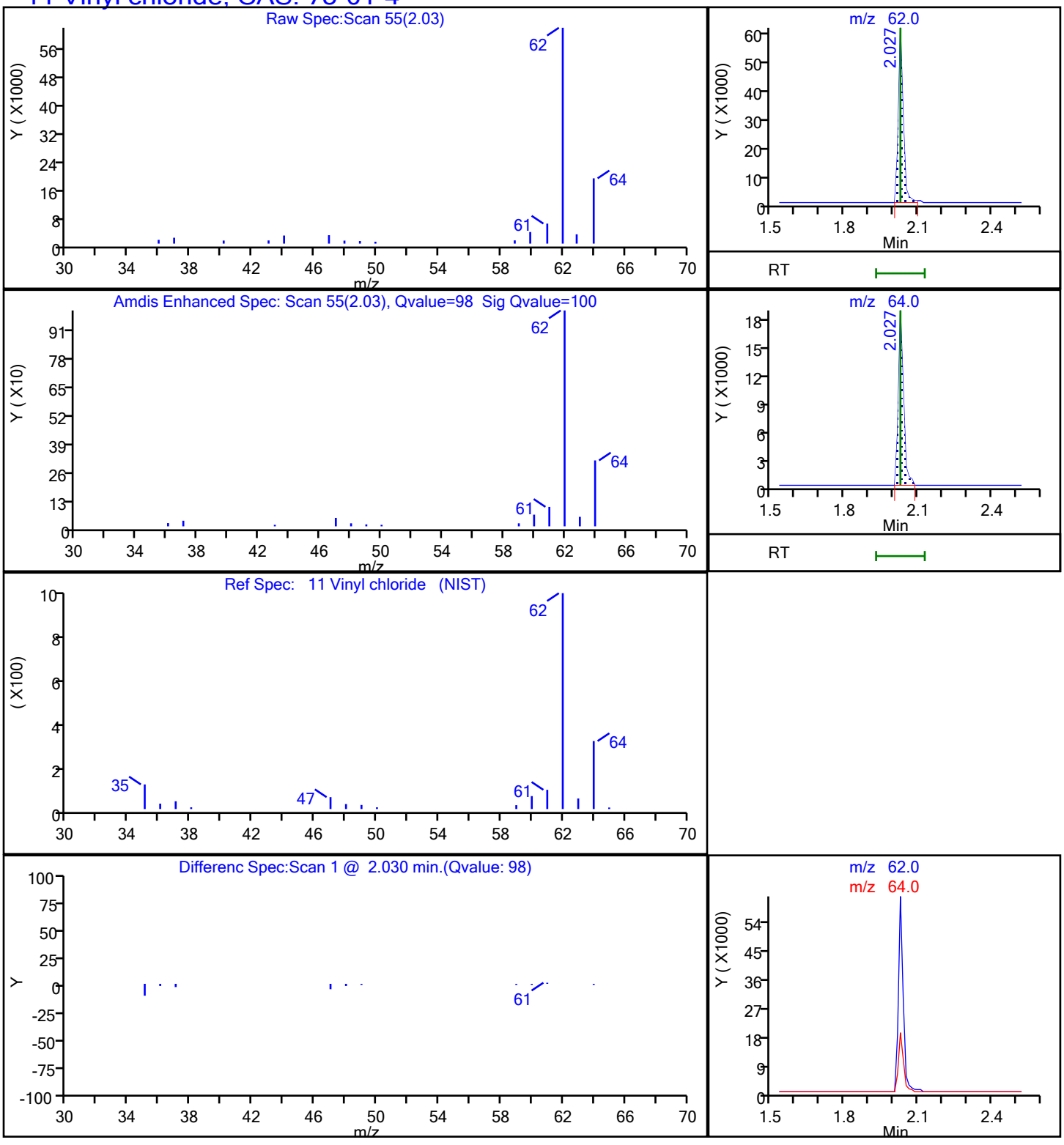
Report Date: 12-Mar-2021 08:56:05 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35624.D

Injection Date:	11-Mar-2021 15:51:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-9	Lab Sample ID:	240-145599-9		
Client ID:	MSA-SW40A-030821				
Operator ID:	001765	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40B-030821 Lab Sample ID: 240-145599-10

Matrix: Water Lab File ID: UXM35625.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:17

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.26	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40B-030821 Lab Sample ID: 240-145599-10

Matrix: Water Lab File ID: UXM35625.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:17

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.38	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.16	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.47	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.16	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.62	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40B-030821 Lab Sample ID: 240-145599-10

Matrix: Water Lab File ID: UXM35625.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:17

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.54	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
2037-26-5	Toluene-d8 (Surr)	87		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40B-030821 Lab Sample ID: 240-145599-10

Matrix: Water Lab File ID: UXM35625.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:17

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40B-030821 Lab Sample ID: 240-145599-10

Matrix: Water Lab File ID: UXM35625.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:17

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35625.D
Lims ID: 240-145599-B-10
Client ID: MSA-SW40B-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 16:16:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-020
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:57:08

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	1051548	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	84	914014	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	491237	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	300777	26.2	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	97	308365	24.9	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1059984	21.6	
$	7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	96	449801	25.4	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	96	11116	0.6248	
	13 Bromomethane	94	2.383	2.371	0.012	9	1053	0.0922	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.296	0.012	94	1620	1.73	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	77	3513	0.2582	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	7
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	97	27208	0.4747	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	97	9972	0.3800	
86 o-Xylene	106	9.190	9.190	0.000	94	3974	0.1585	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	89	7973	0.1631	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	7
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.5385	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

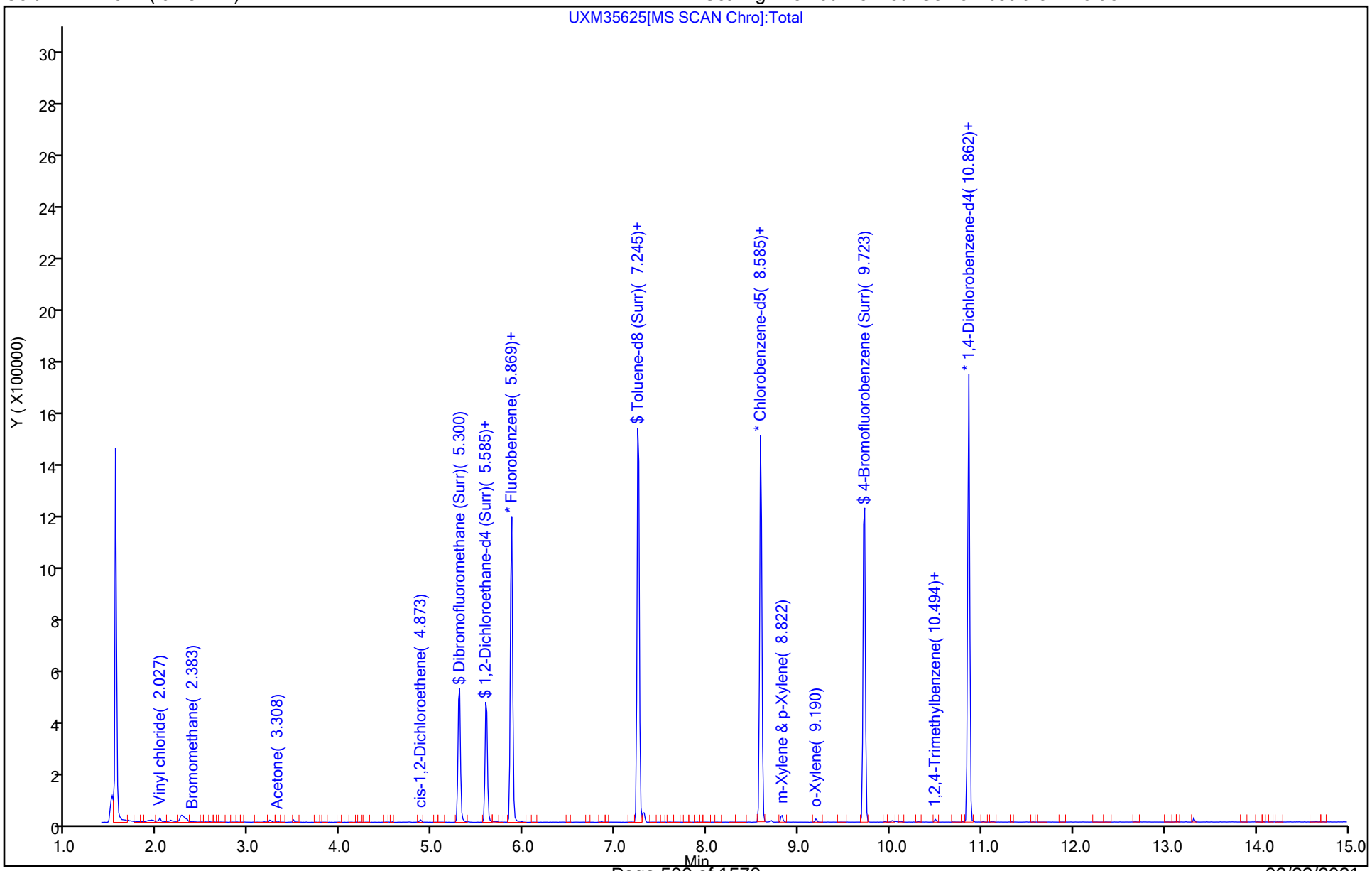
Report Date: 12-Mar-2021 08:57:09 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35625.D

Injection Date:	11-Mar-2021 16:16:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-10	Lab Sample ID:	240-145599-10	Worklist Smp#:	20
Client ID:	MSA-SW40B-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35625.D				
Lims ID:	240-145599-B-10				
Client ID:	MSA-SW40B-030821				
Sample Type:	Client				
Inject. Date:	11-Mar-2021 16:16:30	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107193-020				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	11-Mar-2021 21:07:20	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1602				

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:57:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.2	105.31
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.9	99.74
$ 6 Toluene-d8 (Surr)	24.9	21.6	86.55
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.4	101.76

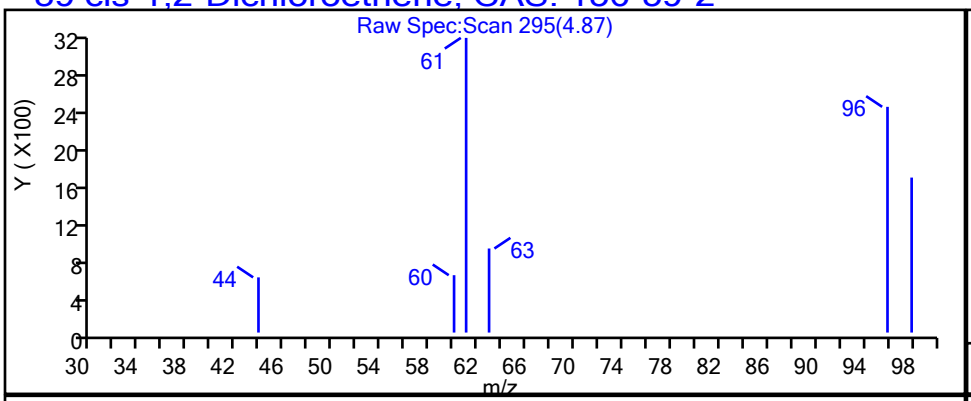
Report Date: 12-Mar-2021 08:57:09 Chrom Revision: 2.3 05-Feb-2021 00:13:28

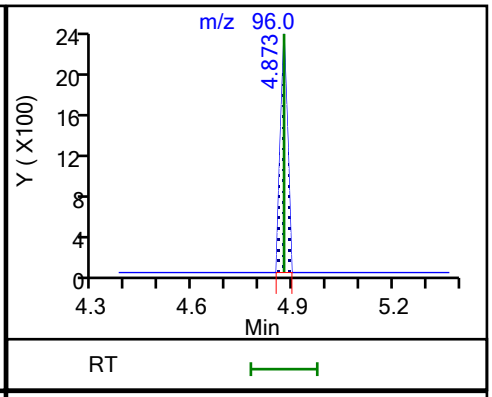
Eurofins TestAmerica, Canton

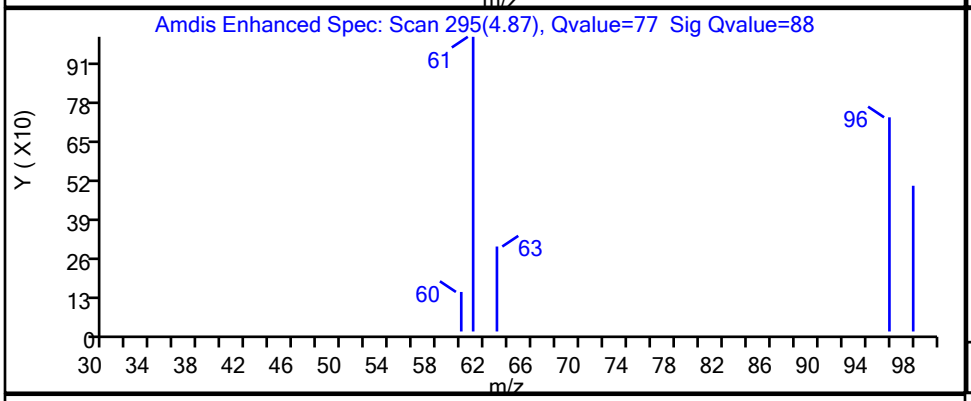
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35625.D

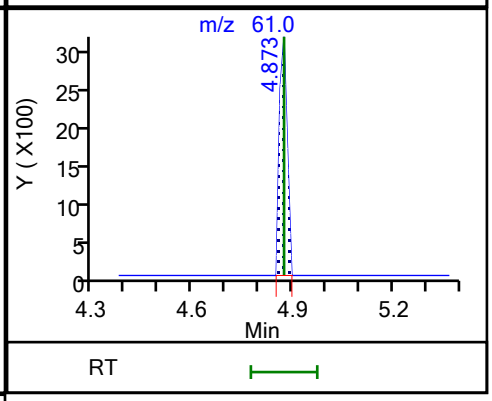
Injection Date:	11-Mar-2021 16:16:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-10	Lab Sample ID:	240-145599-10		
Client ID:	MSA-SW40B-030821				
Operator ID:	001765	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

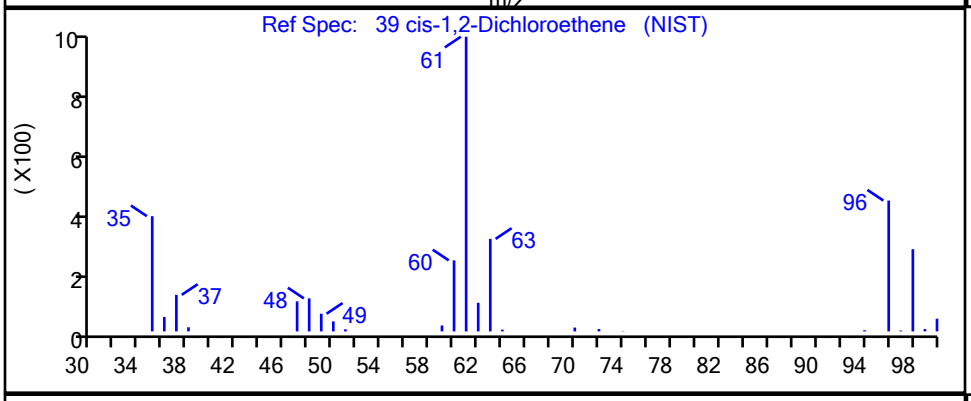
39 cis-1,2-Dichloroethene, CAS: 156-59-2

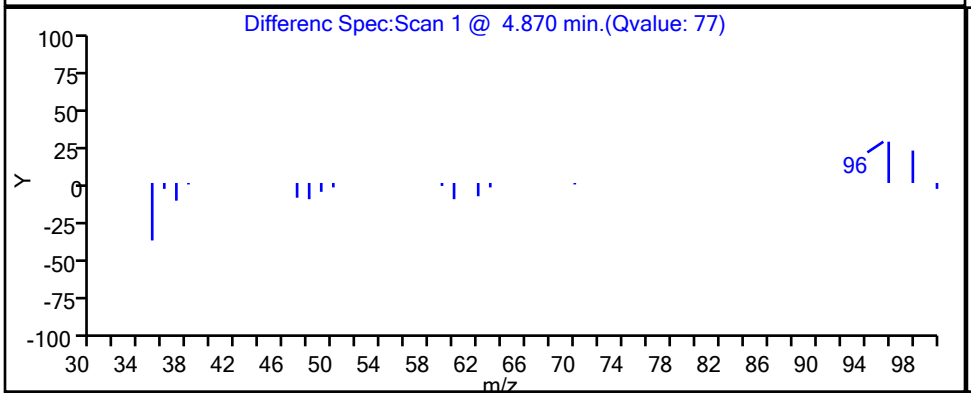


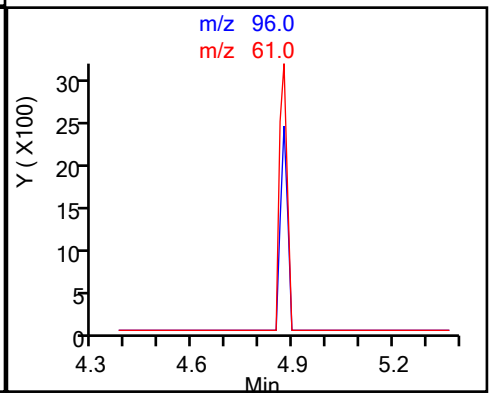








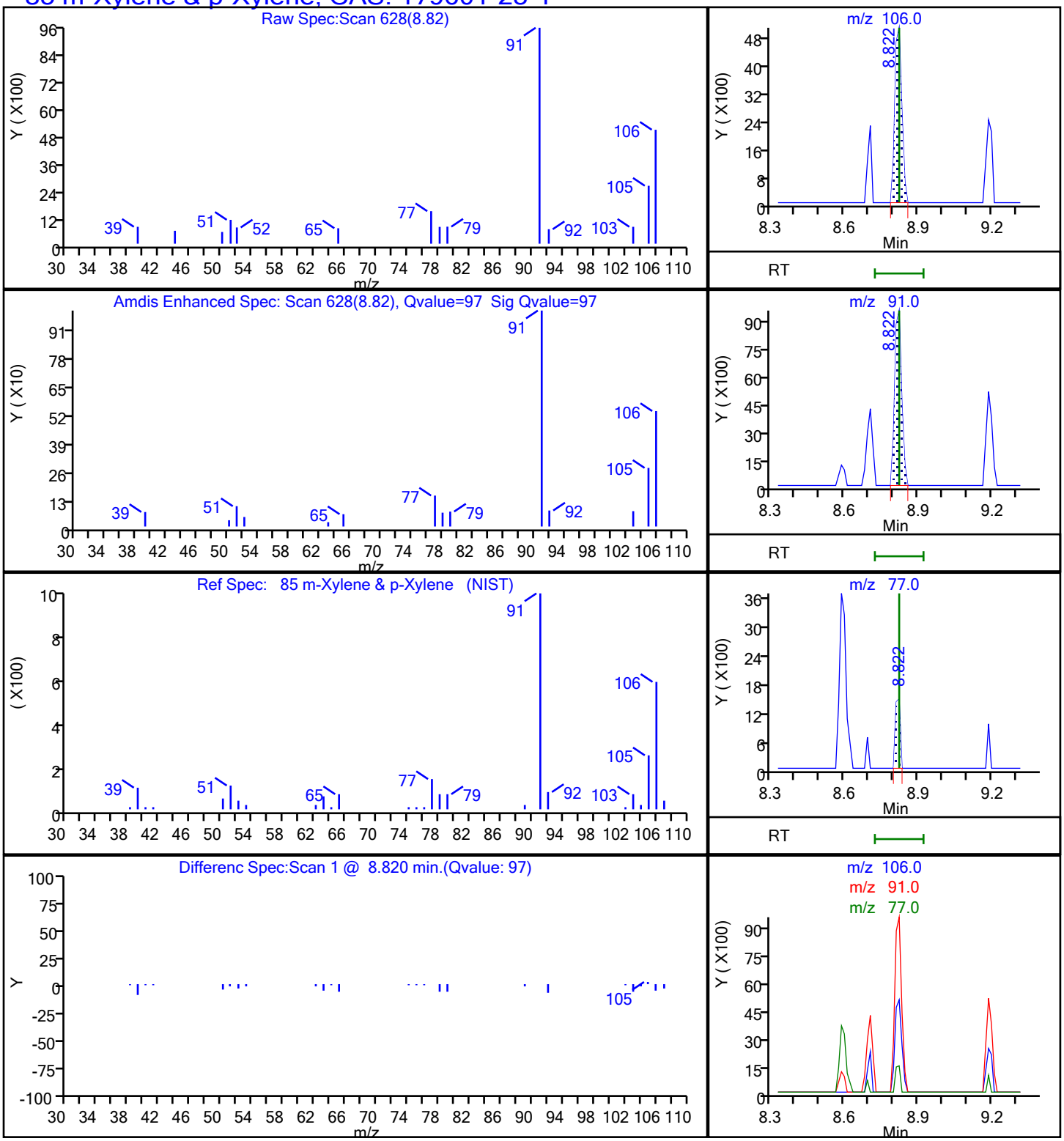




Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35625.D				
Injection Date:	11-Mar-2021 16:16:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-10	Lab Sample ID:	240-145599-10		
Client ID:	MSA-SW40B-030821				
Operator ID:	001765	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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



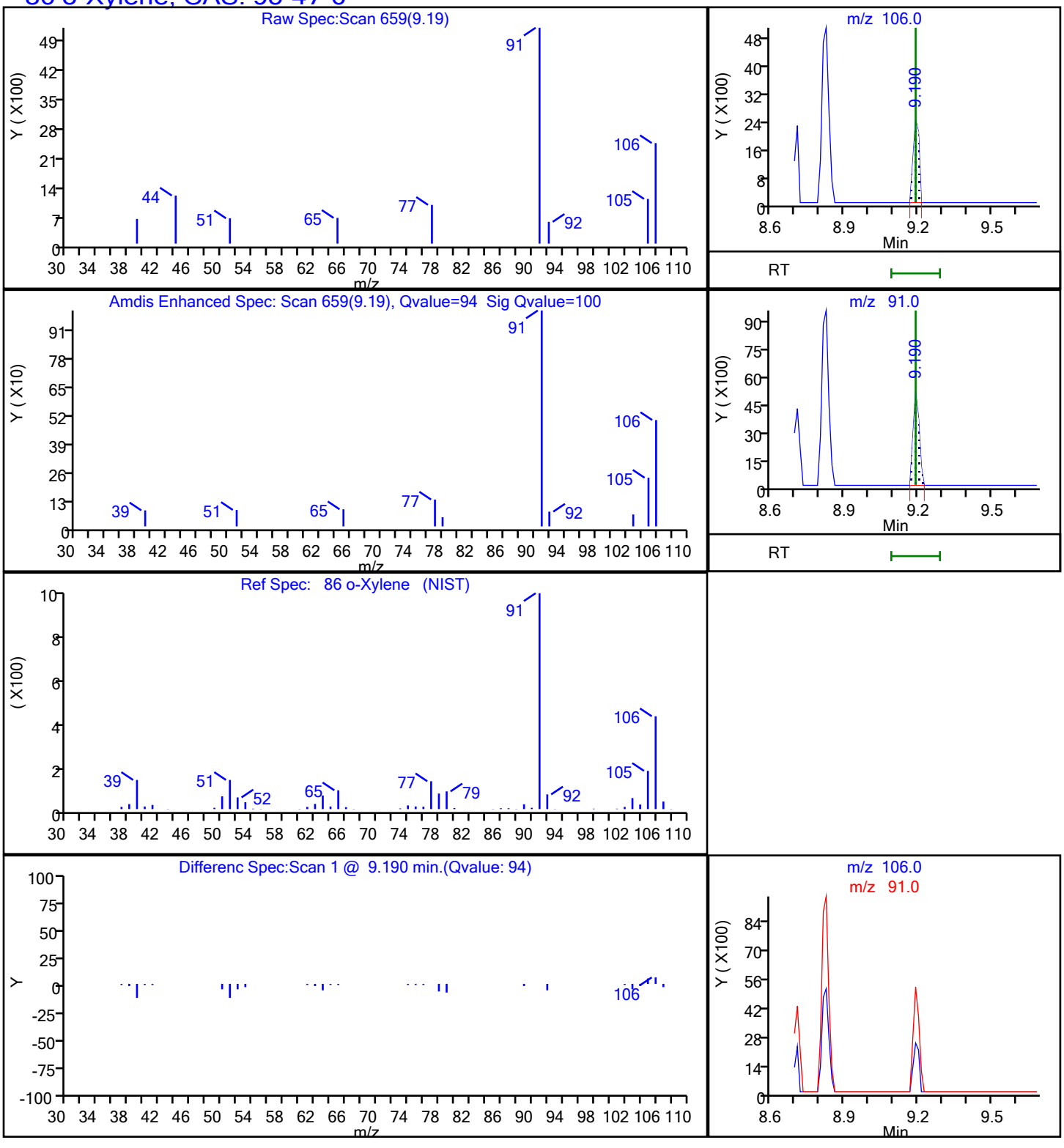
Report Date: 12-Mar-2021 08:57:09 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35625.D

Injection Date:	11-Mar-2021 16:16:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-10	Lab Sample ID:	240-145599-10		
Client ID:	MSA-SW40B-030821				
Operator ID:	001765	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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



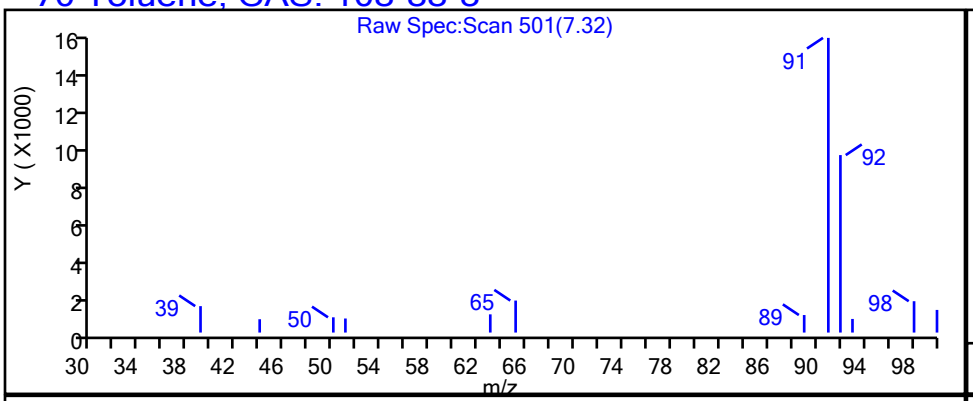
Report Date: 12-Mar-2021 08:57:09 Chrom Revision: 2.3 05-Feb-2021 00:13:28

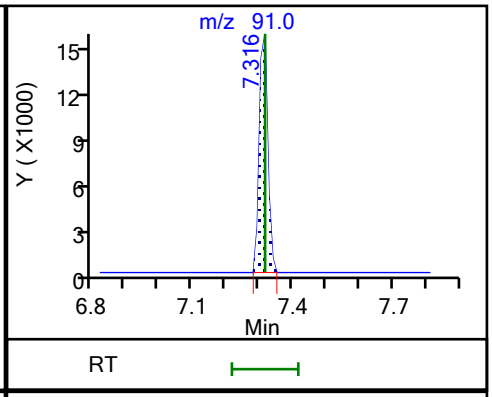
Eurofins TestAmerica, Canton

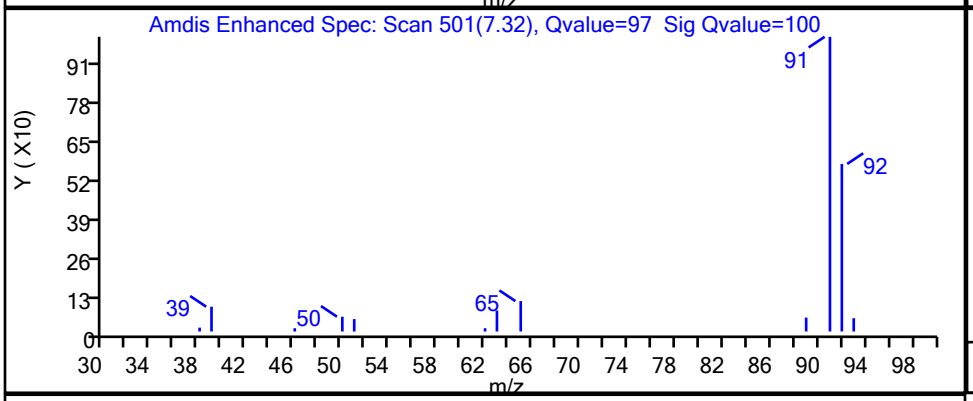
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35625.D

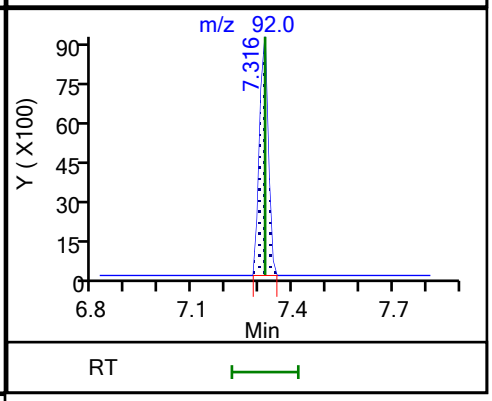
Injection Date:	11-Mar-2021 16:16:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-10	Lab Sample ID:	240-145599-10		
Client ID:	MSA-SW40B-030821				
Operator ID:	001765	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

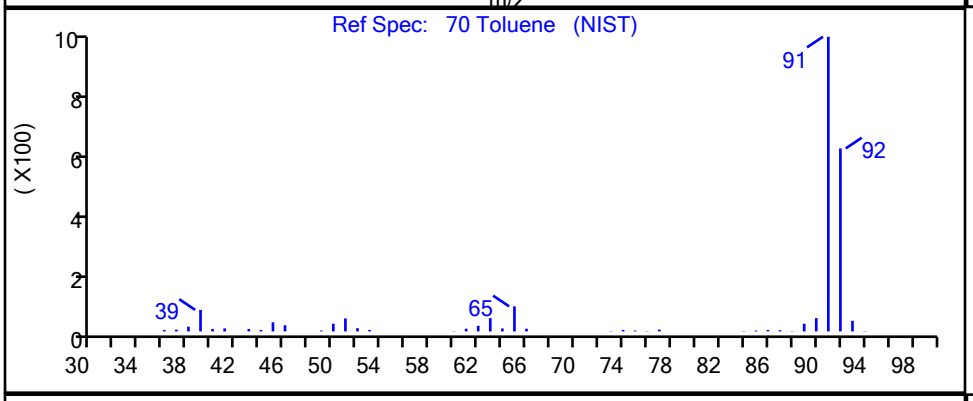
70 Toluene, CAS: 108-88-3

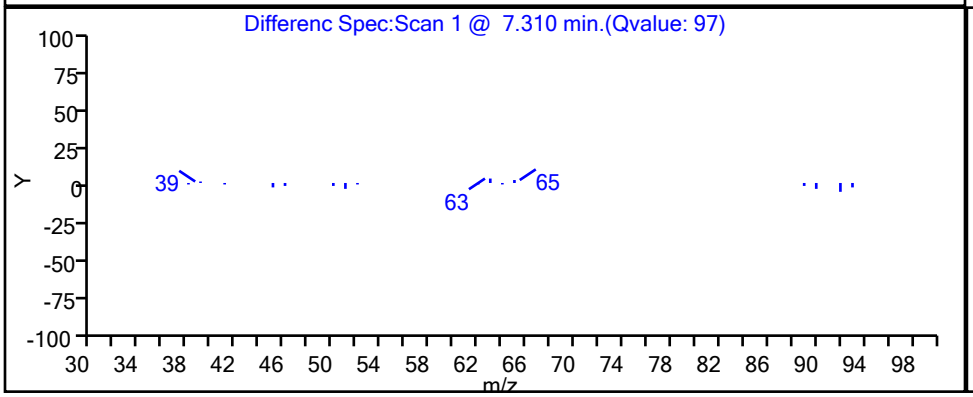


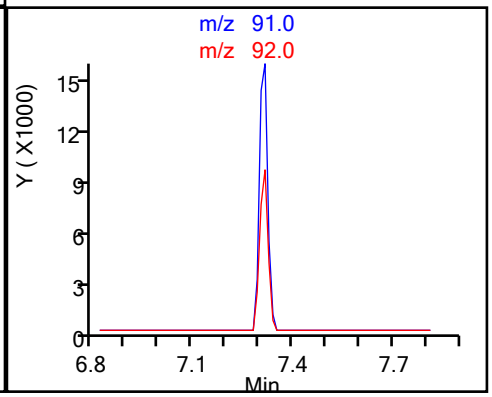








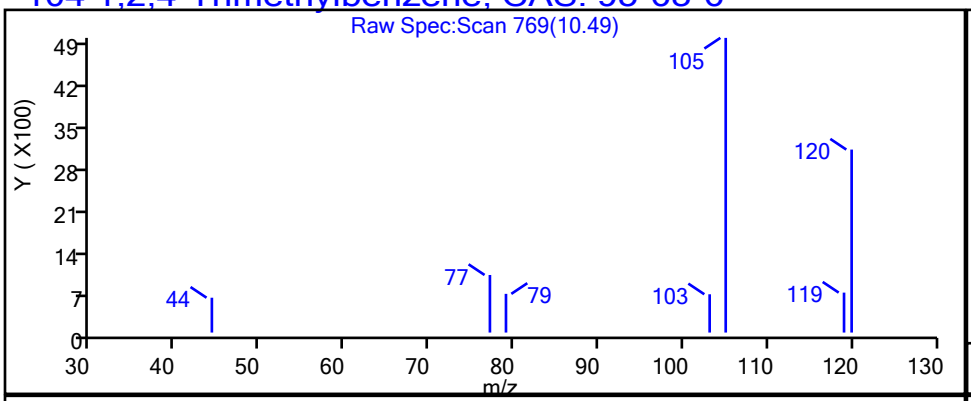


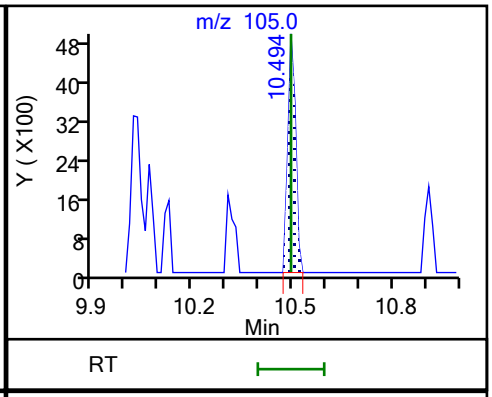


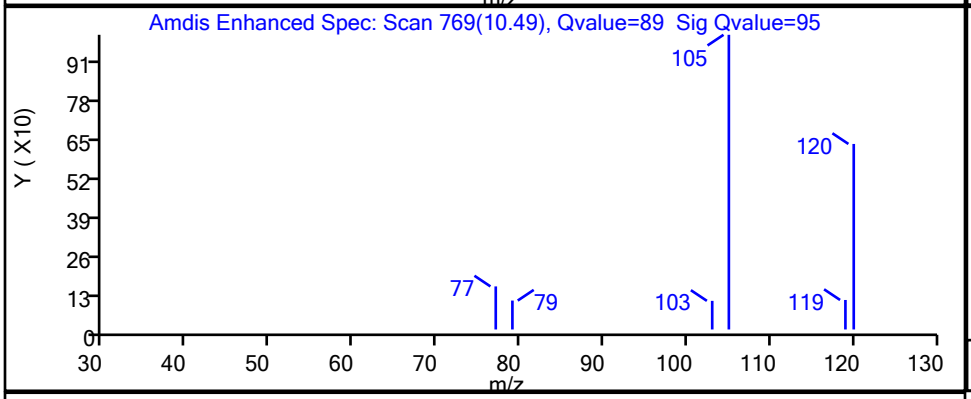
Eurofins TestAmerica, Canton

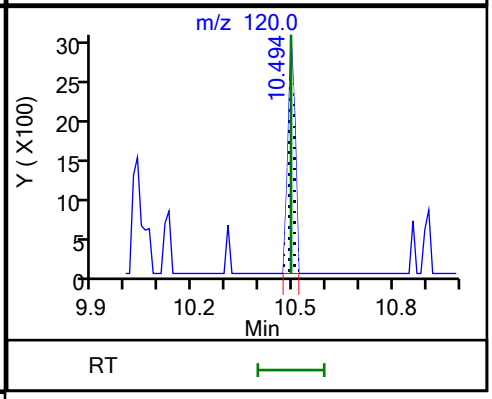
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35625.D				
Injection Date:	11-Mar-2021 16:16:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-10	Lab Sample ID:	240-145599-10		
Client ID:	MSA-SW40B-030821				
Operator ID:	001765	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

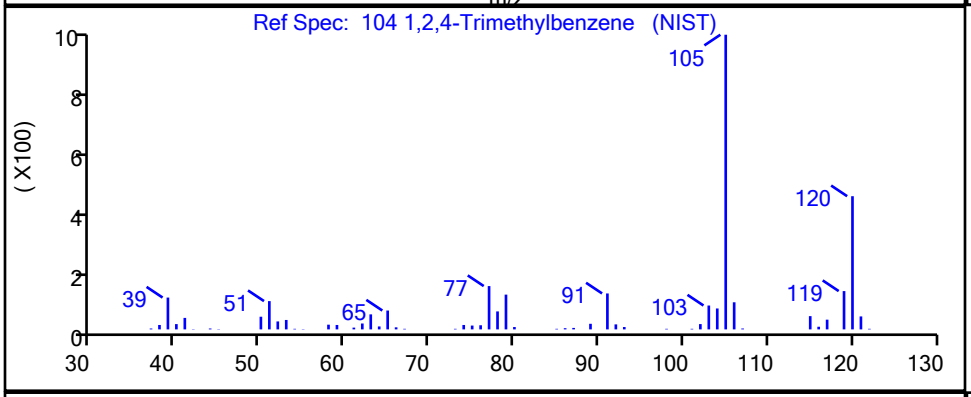
104 1,2,4-Trimethylbenzene, CAS: 95-63-6

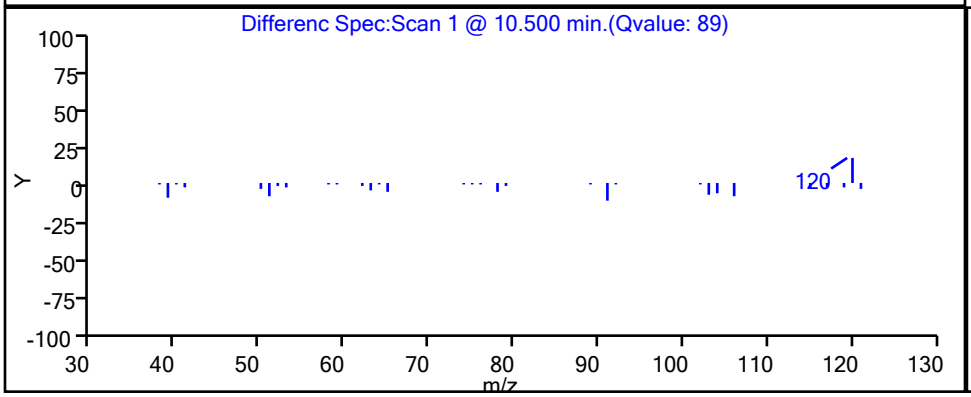


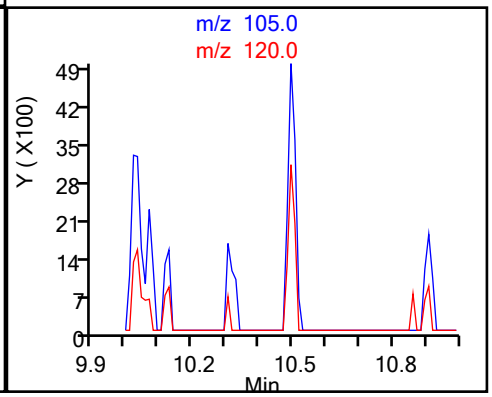












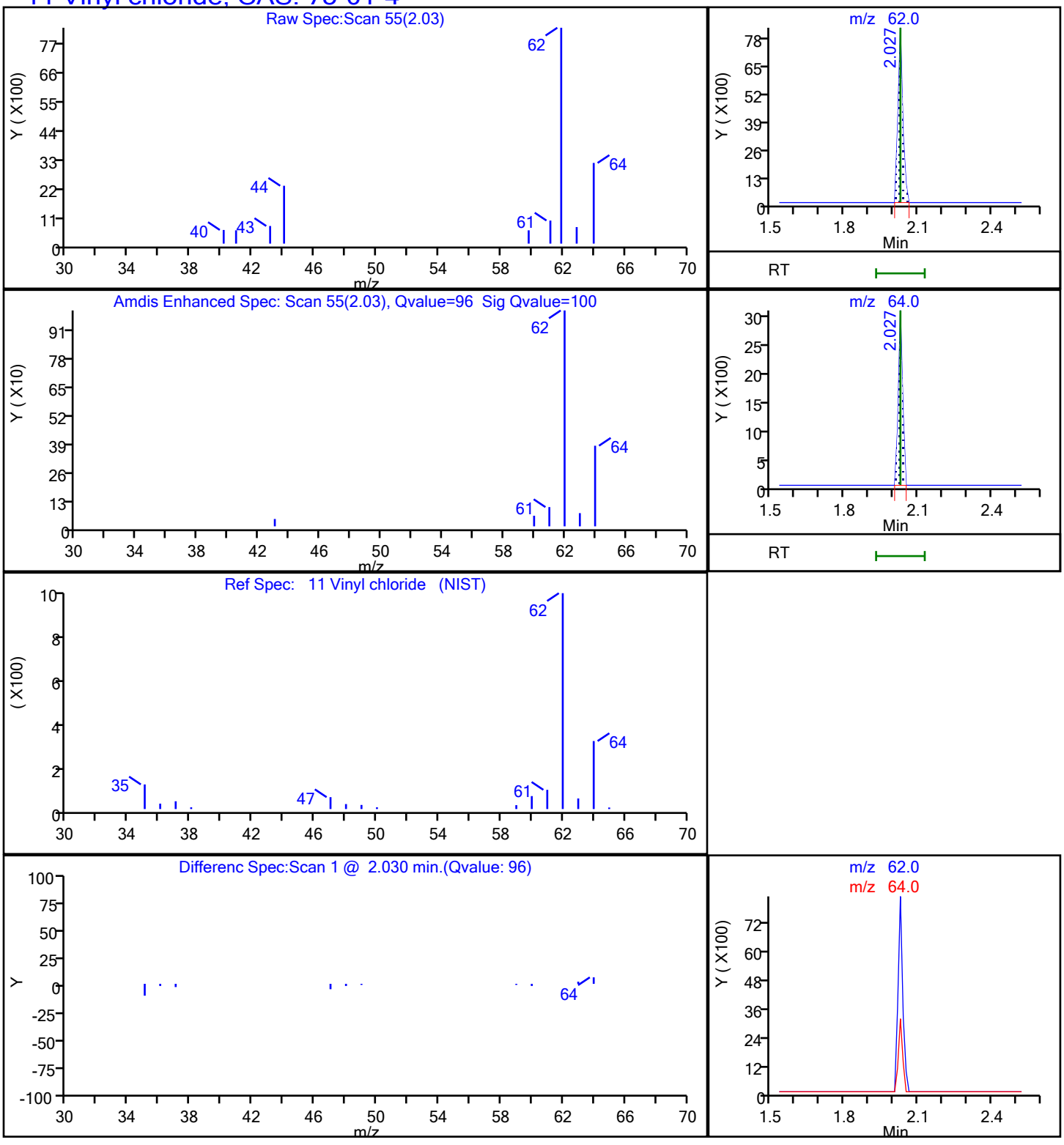
Report Date: 12-Mar-2021 08:57:09 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35625.D

Injection Date:	11-Mar-2021 16:16:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-10	Lab Sample ID:	240-145599-10		
Client ID:	MSA-SW40B-030821				
Operator ID:	001765	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40C-030821 Lab Sample ID: 240-145599-11

Matrix: Water Lab File ID: UXM35626.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:19

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40C-030821 Lab Sample ID: 240-145599-11

Matrix: Water Lab File ID: UXM35626.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:19

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.32	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.11	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.38	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.16	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.21	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40C-030821 Lab Sample ID: 240-145599-11

Matrix: Water Lab File ID: UXM35626.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:19

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.43	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	107		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40C-030821 Lab Sample ID: 240-145599-11

Matrix: Water Lab File ID: UXM35626.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:19

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40C-030821 Lab Sample ID: 240-145599-11

Matrix: Water Lab File ID: UXM35626.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:19

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 16:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35626.D
Lims ID: 240-145599-B-11
Client ID: MSA-SW40C-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 16:41:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-021
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:58:22

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	1050124	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	85	895235	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	476825	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	305028	26.6	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	311664	25.2	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1070228	22.2	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.712	0.011	97	429644	24.7	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	95	3813	0.2146	
	13 Bromomethane	94	2.383	2.371	0.012	5	1135	0.0995	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.296	3.296	0.000	96	1077	1.15	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	74	1483	0.1091	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	7
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	98	21467	0.3824	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	7
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	8269	0.3217	
86 o-Xylene	106	9.190	9.190	0.000	93	2695	0.1098	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	91	7372	0.1554	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	7
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.4315	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

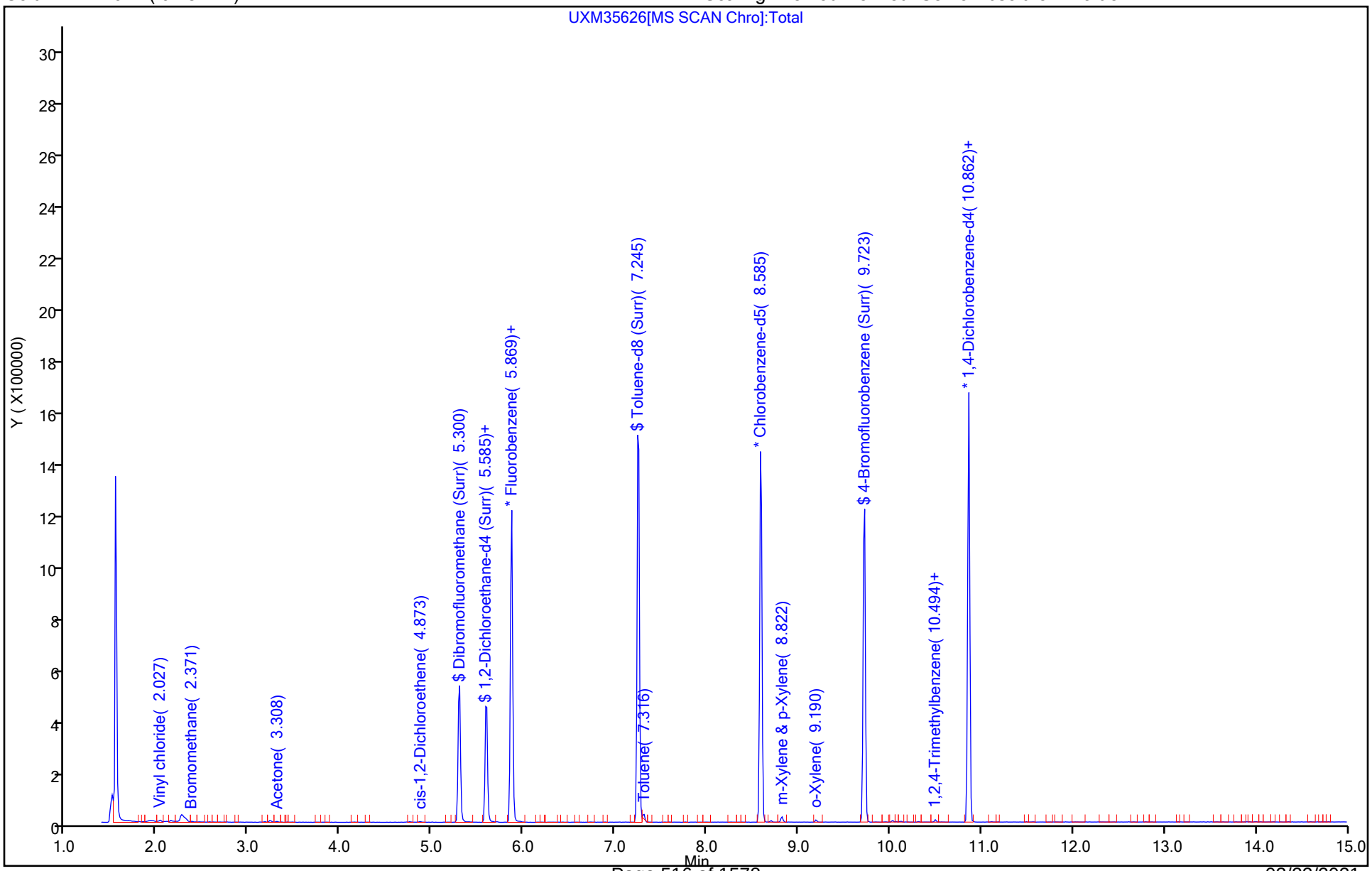
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 12-Mar-2021 08:58:23 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35626.D				
Injection Date:	11-Mar-2021 16:41:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-11	Lab Sample ID:	240-145599-11	Worklist Smp#:	21
Client ID:	MSA-SW40C-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35626.D
Lims ID: 240-145599-B-11
Client ID: MSA-SW40C-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 16:41:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-021
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

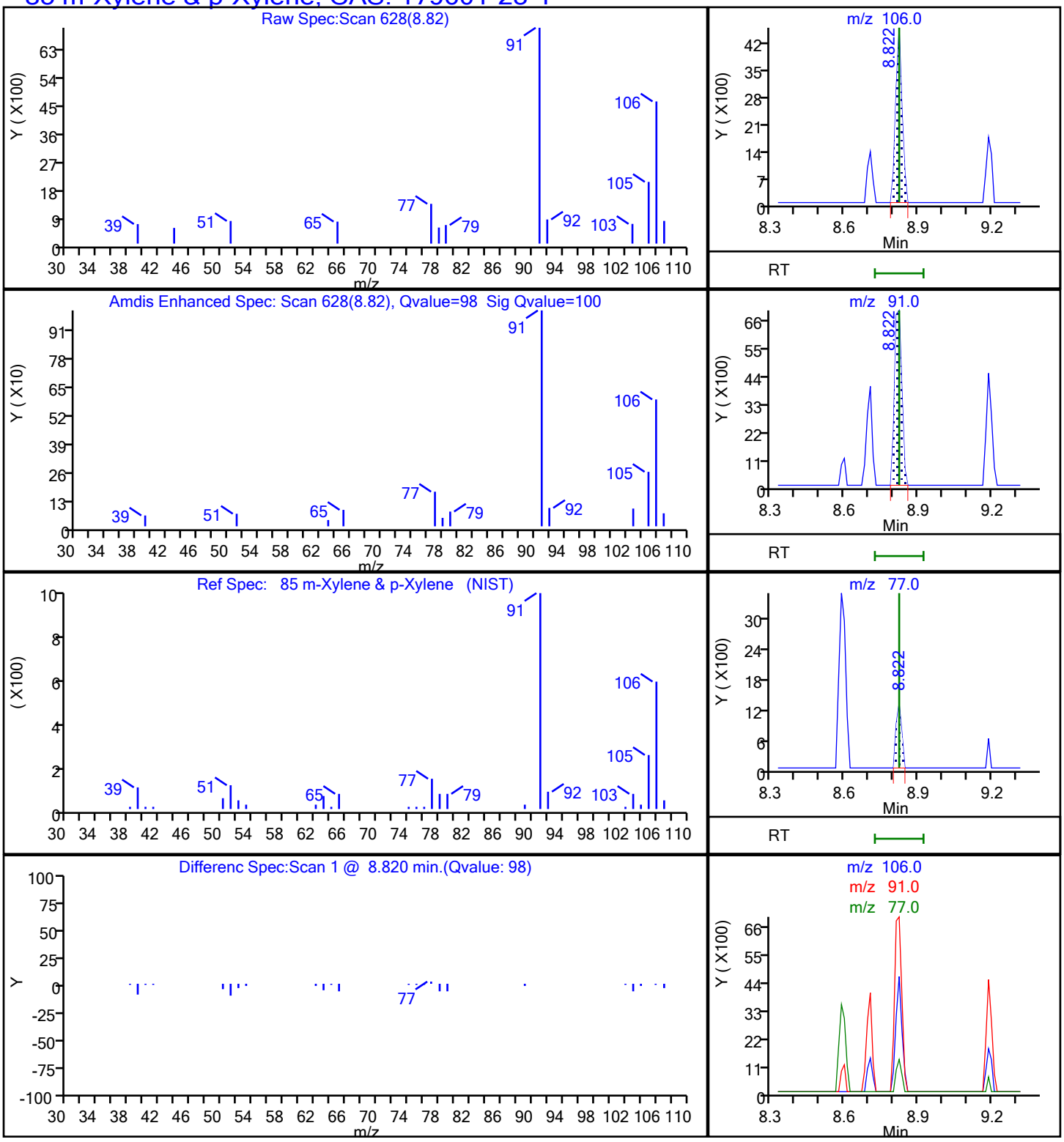
First Level Reviewer: bosworthh Date: 12-Mar-2021 08:58:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.6	106.94
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.2	100.94
$ 6 Toluene-d8 (Surr)	24.9	22.2	89.22
$ 7 4-Bromofluorobenzene (Surr)	24.9	24.7	99.24

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35626.D				
Injection Date:	11-Mar-2021 16:41:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-11	Lab Sample ID:	240-145599-11		
Client ID:	MSA-SW40C-030821				
Operator ID:	001765	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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

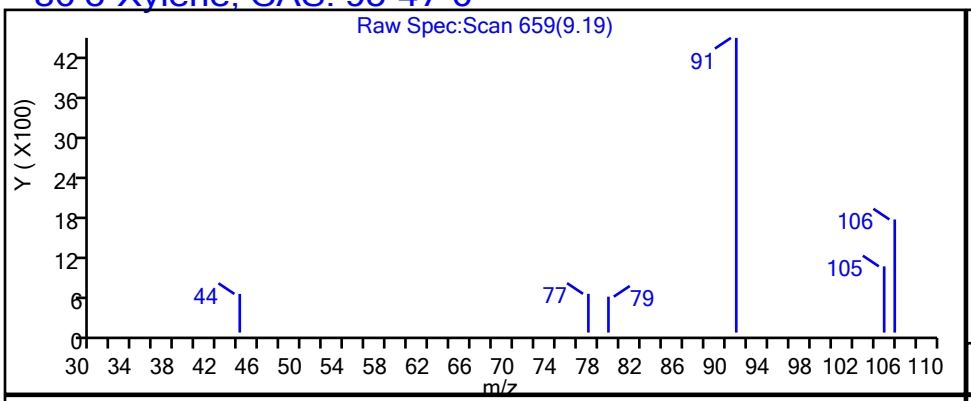


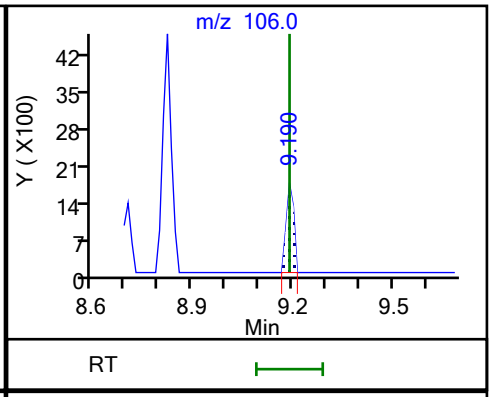
Eurofins TestAmerica, Canton

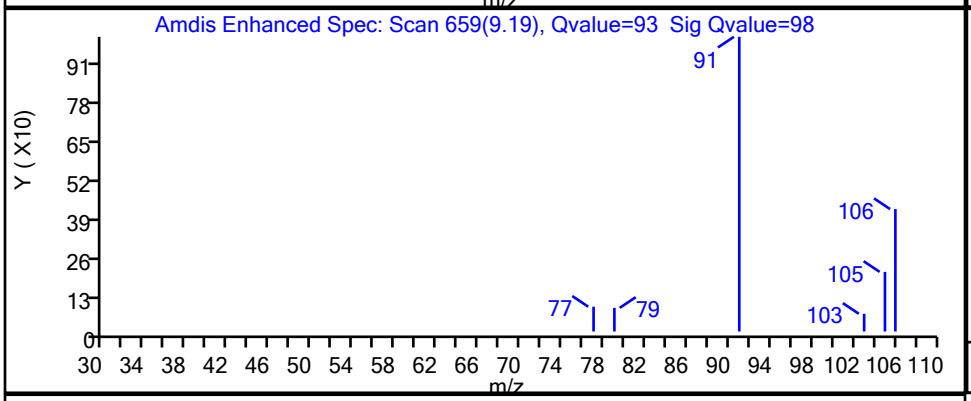
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35626.D

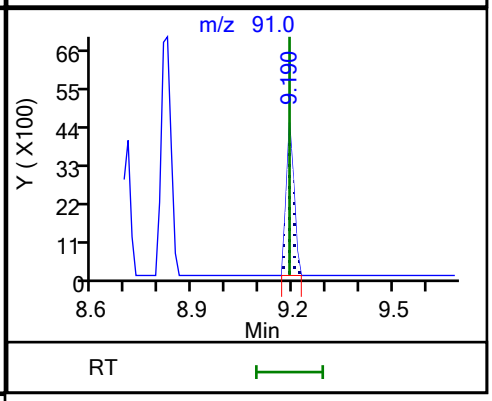
Injection Date:	11-Mar-2021 16:41:30	Instrument ID:	A3UX16
Lims ID:	240-145599-B-11	Lab Sample ID:	240-145599-11
Client ID:	MSA-SW40C-030821		
Operator ID:	001765	ALS Bottle#:	21 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

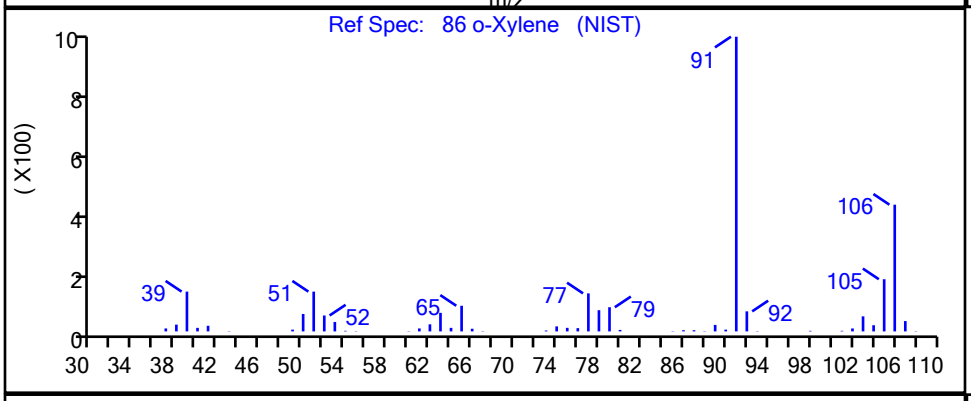
86 o-Xylene, CAS: 95-47-6

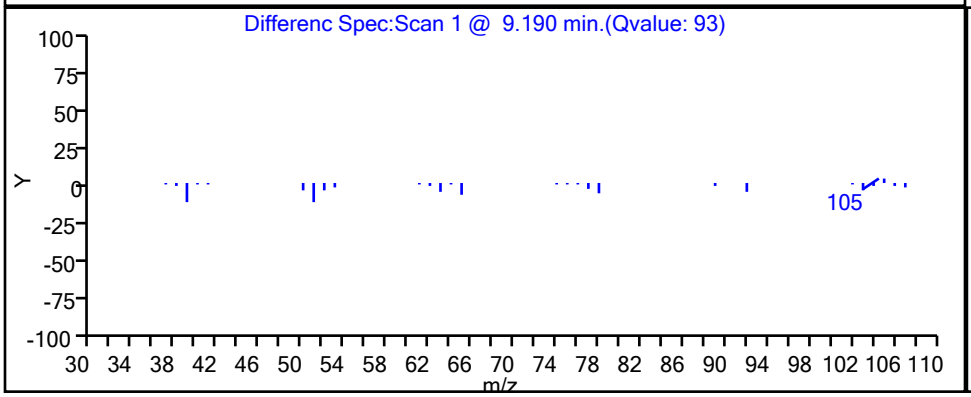


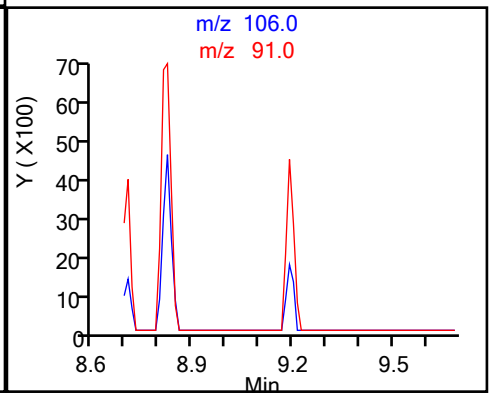










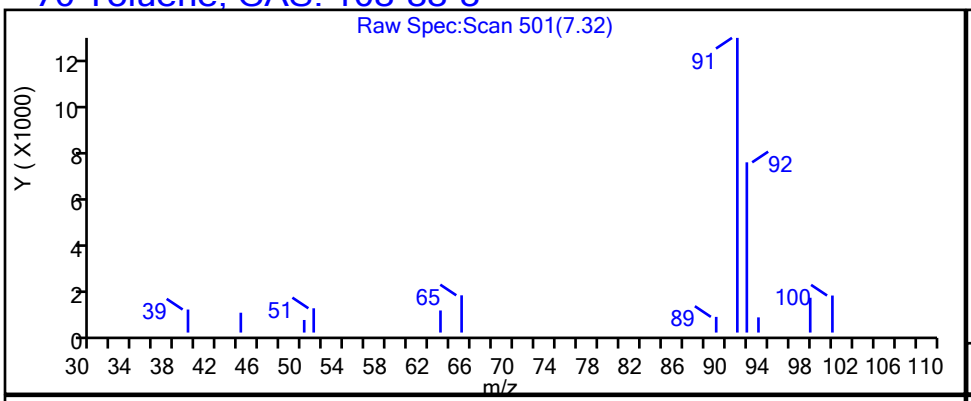


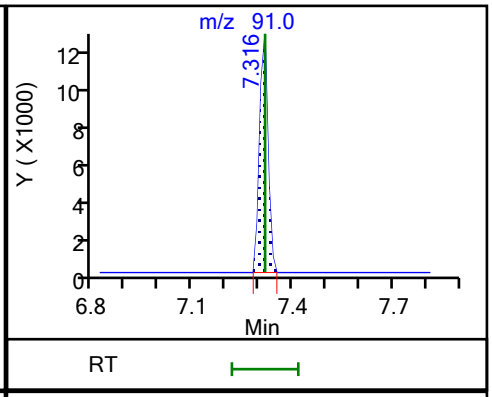
Report Date: 12-Mar-2021 08:58:23 Chrom Revision: 2.3 05-Feb-2021 00:13:28

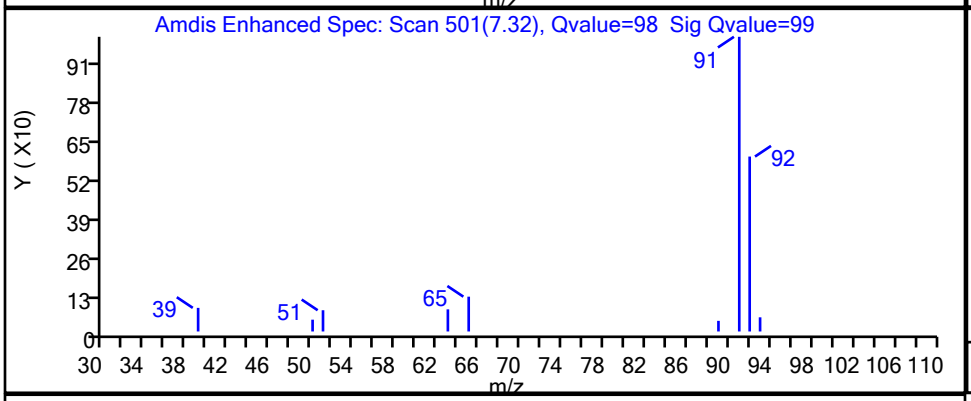
Eurofins TestAmerica, Canton

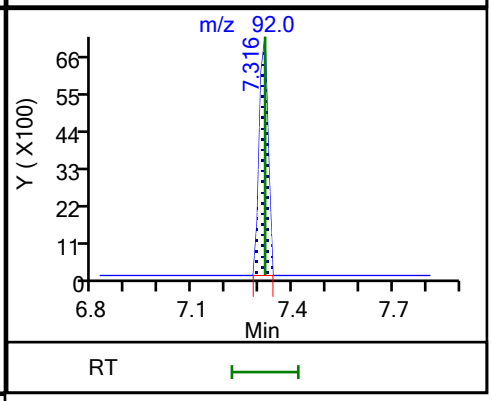
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35626.D				
Injection Date:	11-Mar-2021 16:41:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-11	Lab Sample ID:	240-145599-11		
Client ID:	MSA-SW40C-030821				
Operator ID:	001765	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

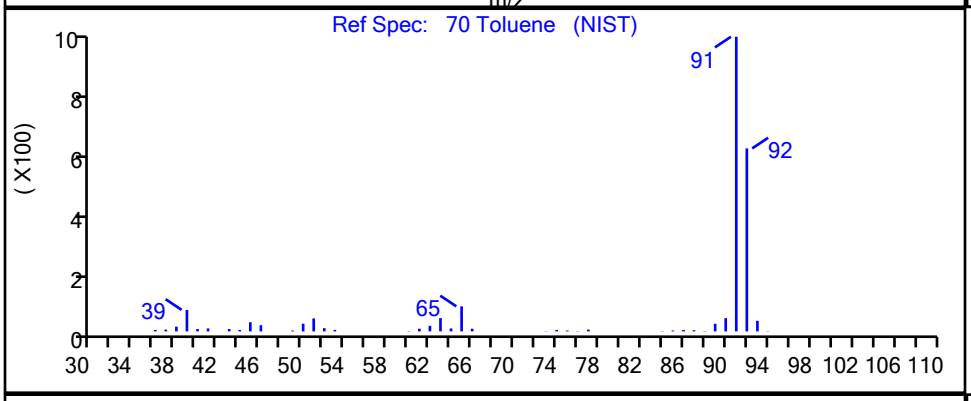
70 Toluene, CAS: 108-88-3

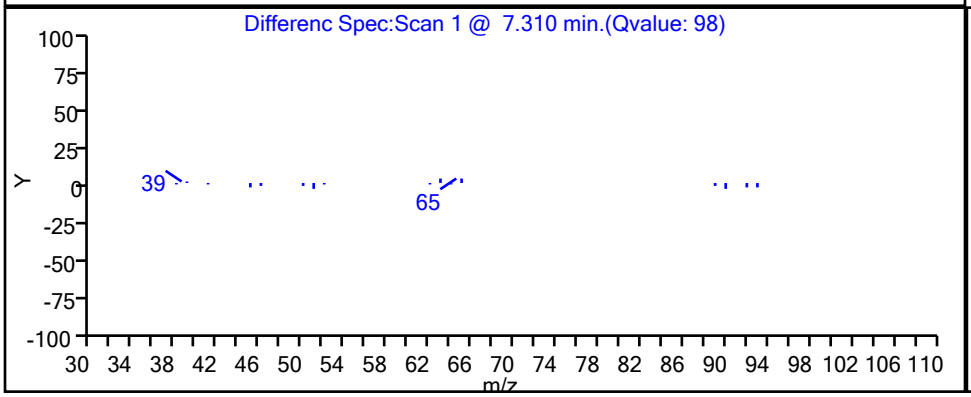


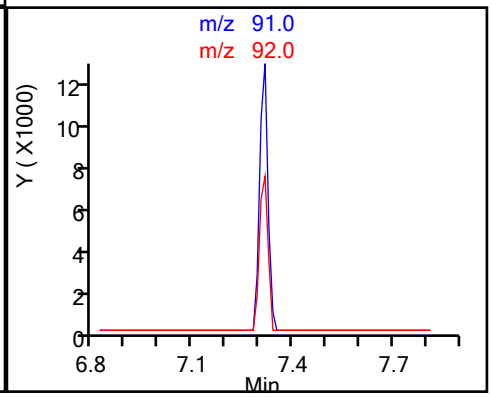












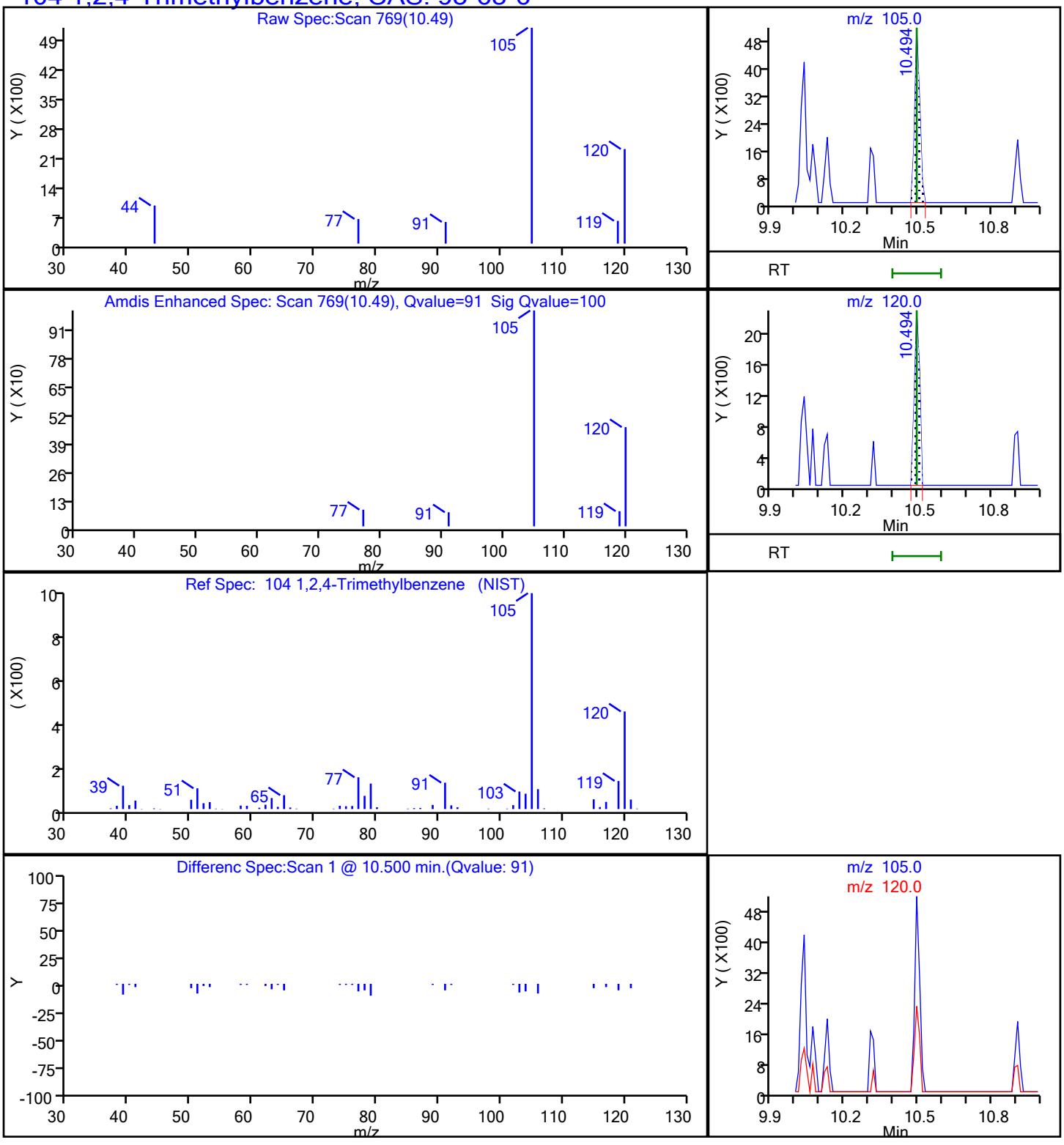
Report Date: 12-Mar-2021 08:58:23 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35626.D

Injection Date:	11-Mar-2021 16:41:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-11	Lab Sample ID:	240-145599-11		
Client ID:	MSA-SW40C-030821				
Operator ID:	001765	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

104 1,2,4-Trimethylbenzene, CAS: 95-63-6



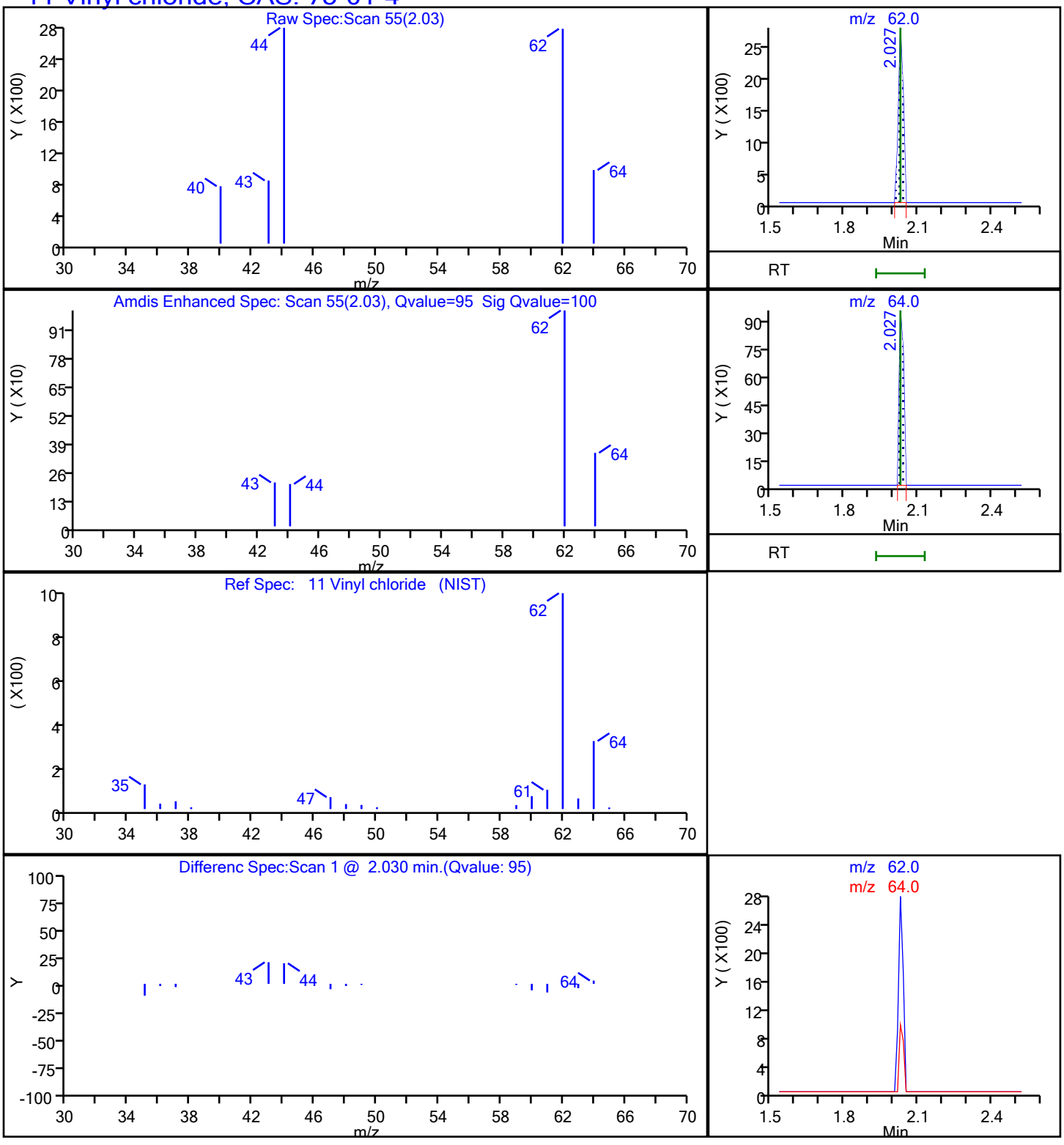
Report Date: 12-Mar-2021 08:58:23 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35626.D

Injection Date:	11-Mar-2021 16:41:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-11	Lab Sample ID:	240-145599-11		
Client ID:	MSA-SW40C-030821				
Operator ID:	001765	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40D-030821 Lab Sample ID: 240-145599-12

Matrix: Water Lab File ID: UXM35627.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40D-030821 Lab Sample ID: 240-145599-12

Matrix: Water Lab File ID: UXM35627.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.27	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.11	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.30	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.11	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40D-030821 Lab Sample ID: 240-145599-12

Matrix: Water Lab File ID: UXM35627.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.38	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	108		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40D-030821 Lab Sample ID: 240-145599-12

Matrix: Water Lab File ID: UXM35627.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW40D-030821 Lab Sample ID: 240-145599-12

Matrix: Water Lab File ID: UXM35627.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:23

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35627.D
Lims ID: 240-145599-C-12
Client ID: MSA-SW40D-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 17:05:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-022
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:59:08

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	993978	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	83	861248	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	465014	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	291985	27.0	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.585	0.011	98	300620	25.6	
$	6 Toluene-d8 (Surr)	98	7.257	7.245	0.012	92	1025538	22.1	
$	7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	96	433340	25.9	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	94	3201	0.1903	
	13 Bromomethane	94	2.383	2.371	0.012	6	970	0.0898	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.296	3.296	0.000	98	989	1.11	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96		4.873				ND	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	7
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	98	16410	0.3039	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	95	6763	0.2735	
86 o-Xylene	106	9.190	9.190	0.000	89	2517	0.1066	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	90	5043	0.1090	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.3801	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

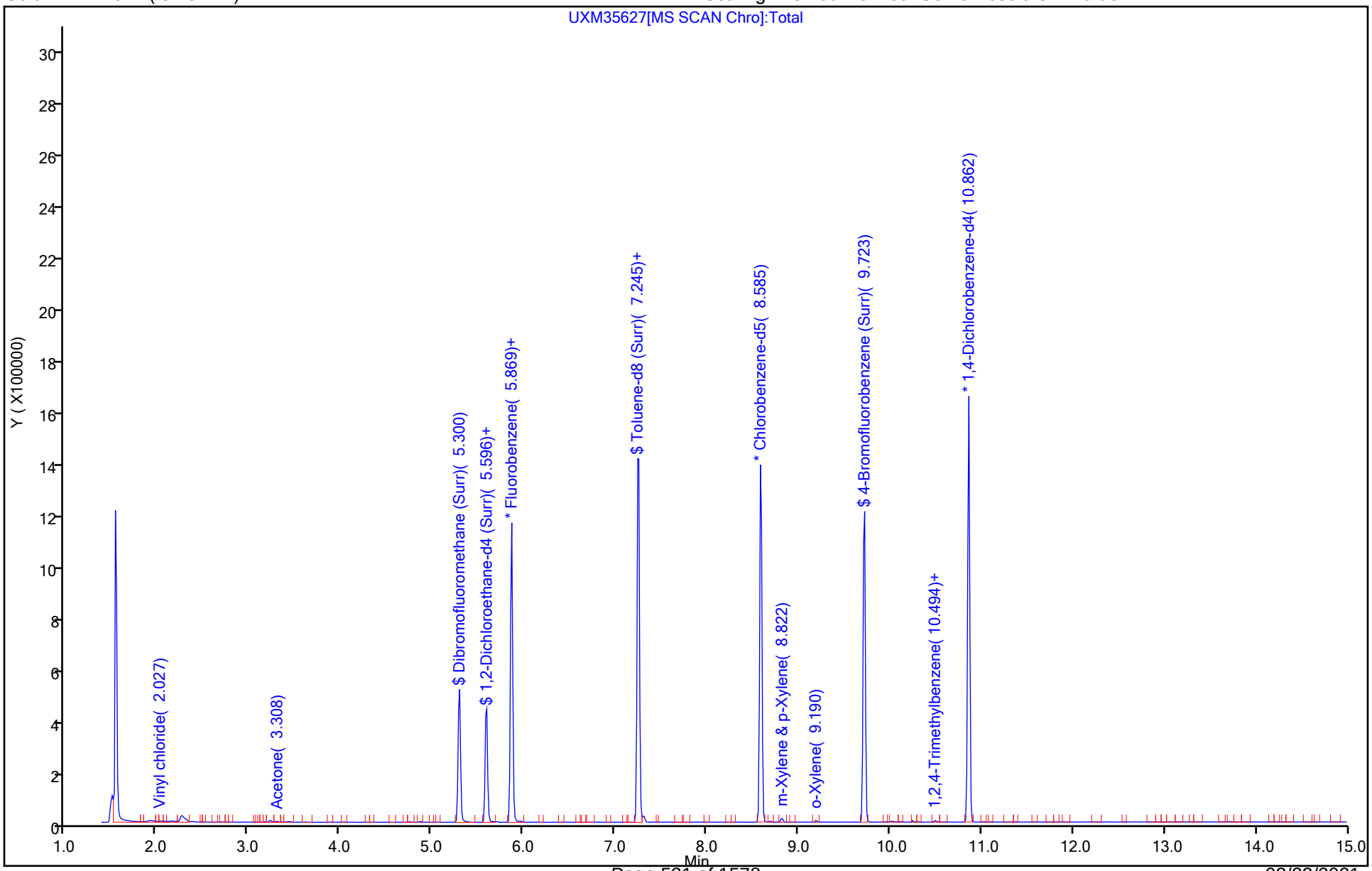
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 12-Mar-2021 08:59:09 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35627.D				
Injection Date:	11-Mar-2021 17:05:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-C-12	Lab Sample ID:	240-145599-12	Worklist Smp#:	22
Client ID:	MSA-SW40D-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35627.D
Lims ID: 240-145599-C-12
Client ID: MSA-SW40D-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 17:05:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-022
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

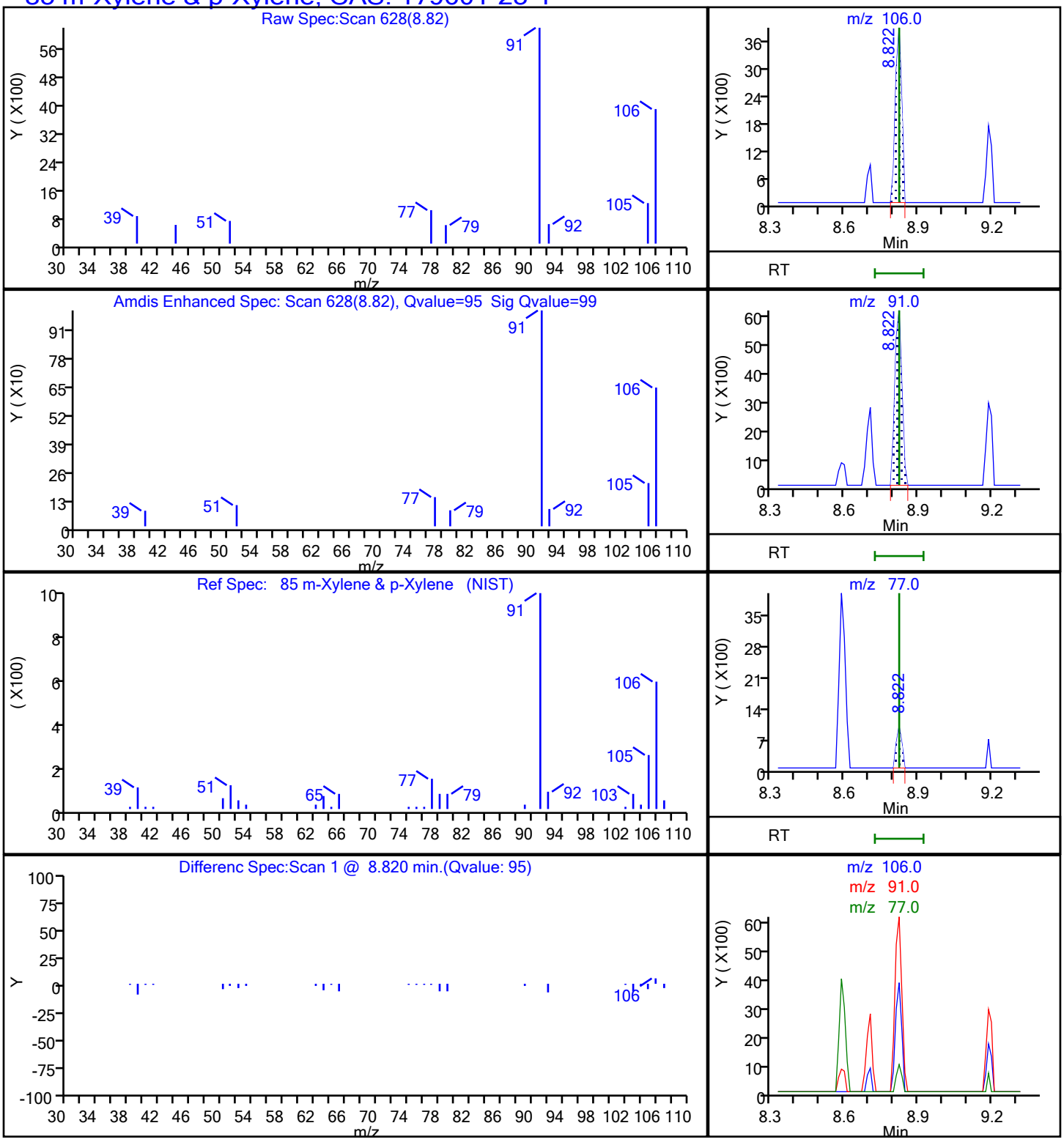
First Level Reviewer: bosworthh Date: 12-Mar-2021 08:59:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	27.0	108.15
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.6	102.86
$ 6 Toluene-d8 (Surr)	24.9	22.1	88.87
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.9	104.04

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35627.D				
Injection Date:	11-Mar-2021 17:05:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-C-12	Lab Sample ID:	240-145599-12		
Client ID:	MSA-SW40D-030821				
Operator ID:	001765	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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



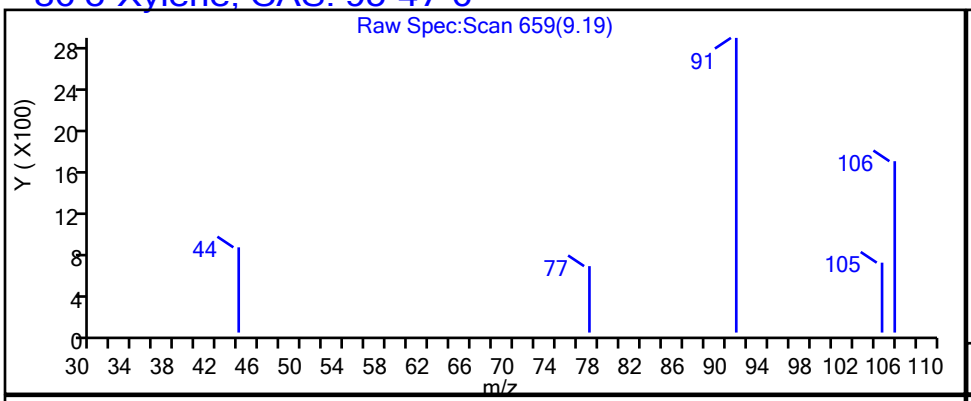
Report Date: 12-Mar-2021 08:59:09 Chrom Revision: 2.3 05-Feb-2021 00:13:28

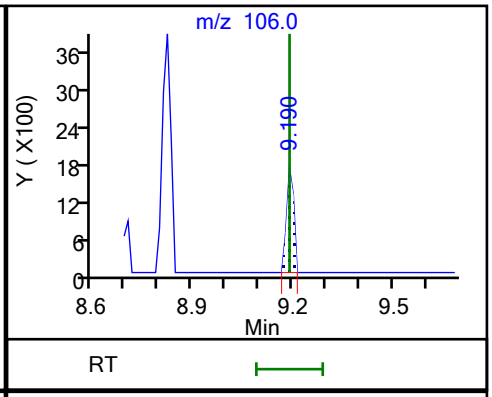
Eurofins TestAmerica, Canton

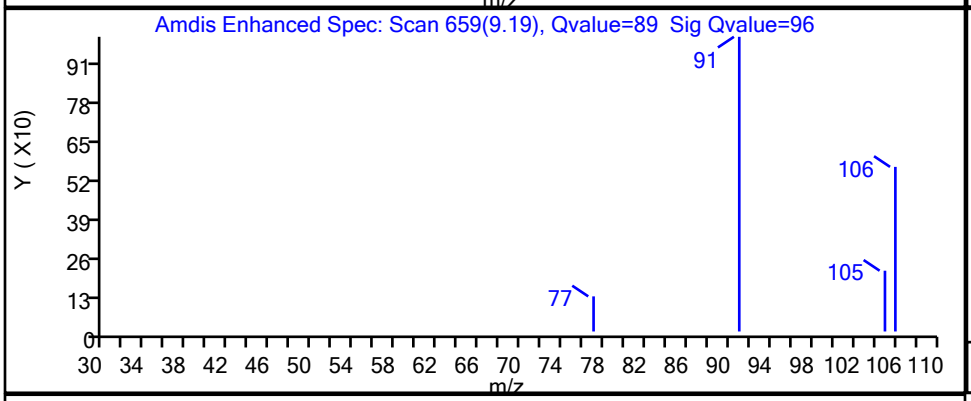
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35627.D

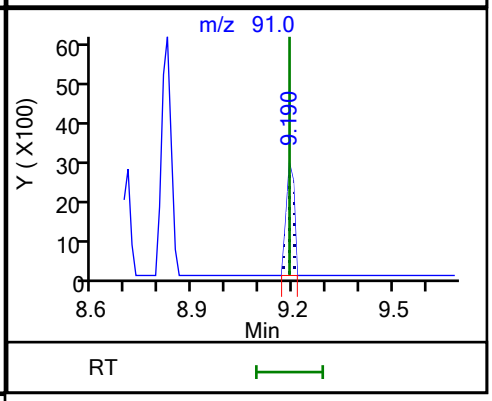
Injection Date:	11-Mar-2021 17:05:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-C-12	Lab Sample ID:	240-145599-12		
Client ID:	MSA-SW40D-030821				
Operator ID:	001765	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

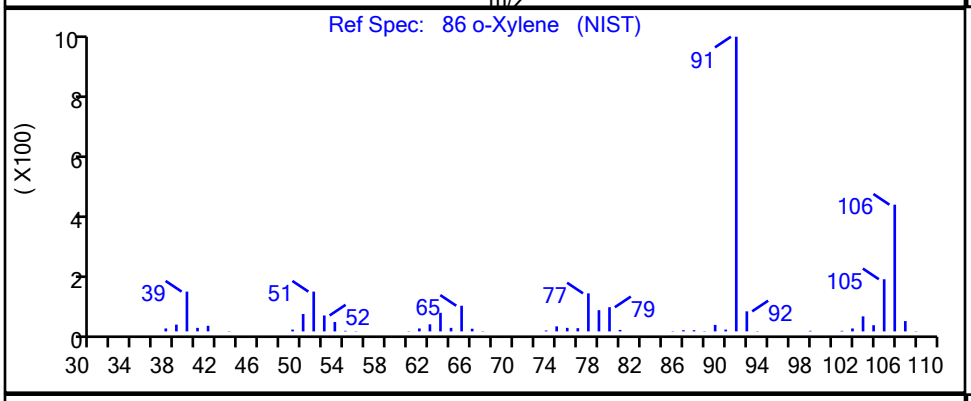
86 o-Xylene, CAS: 95-47-6

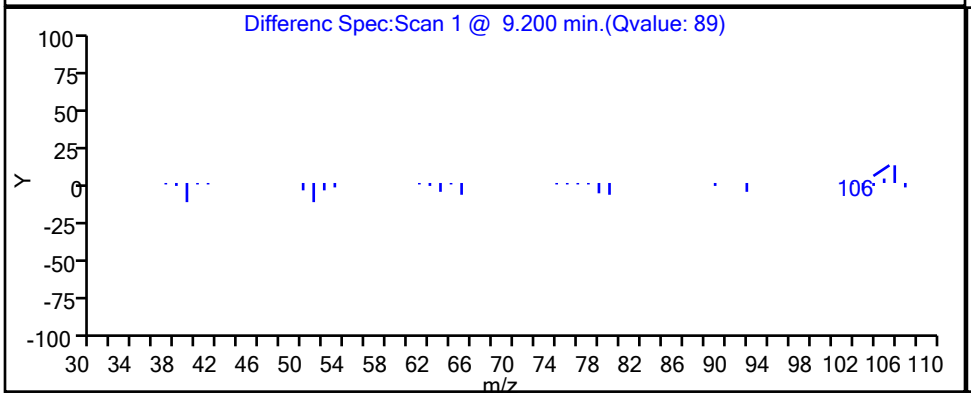


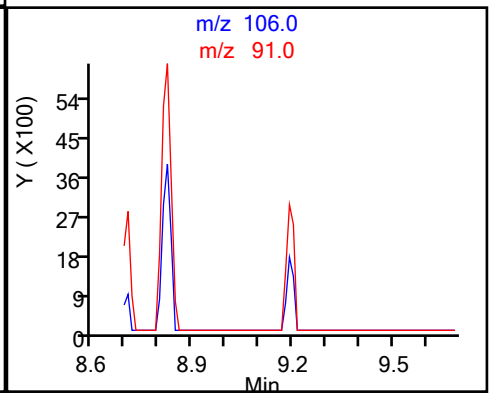










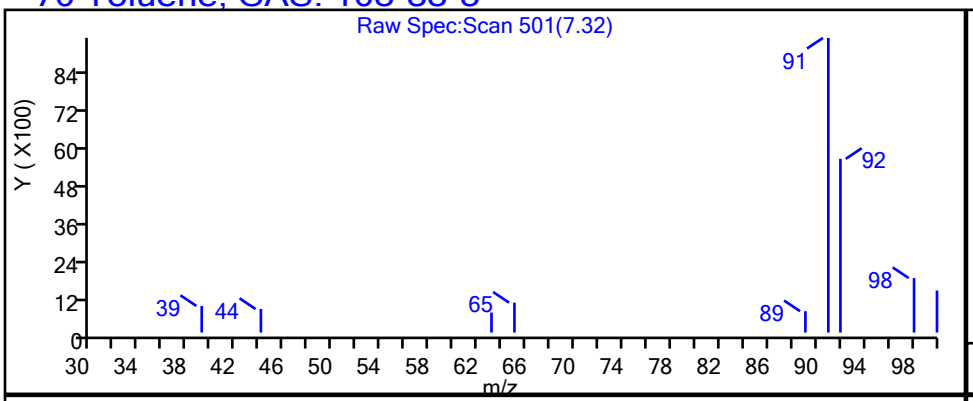


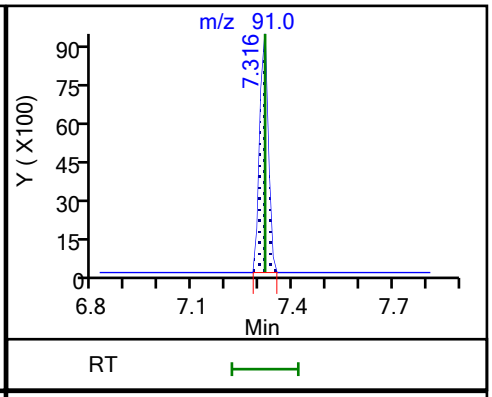
Eurofins TestAmerica, Canton

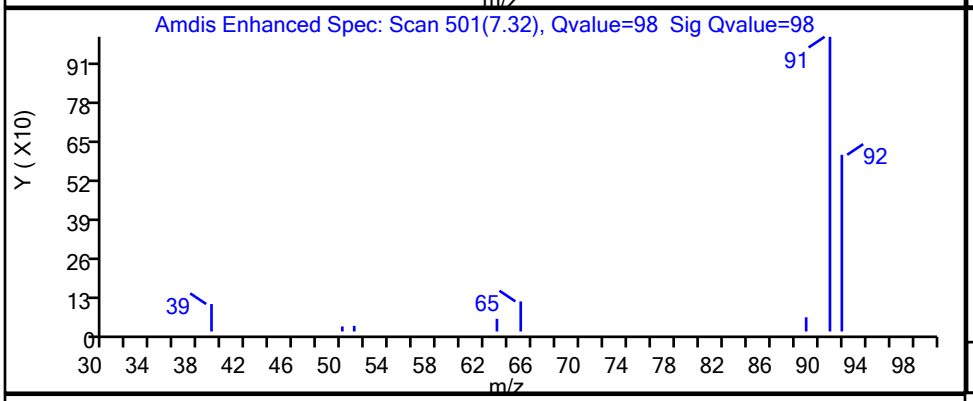
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35627.D

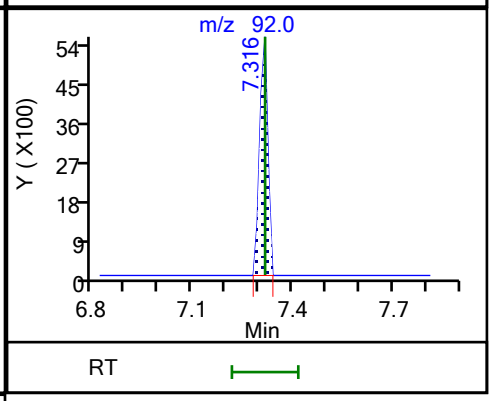
Injection Date:	11-Mar-2021 17:05:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-C-12	Lab Sample ID:	240-145599-12		
Client ID:	MSA-SW40D-030821				
Operator ID:	001765	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

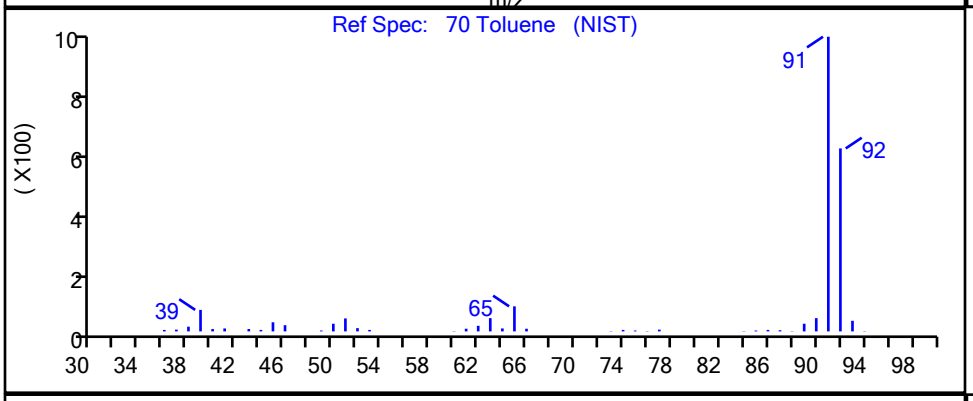
70 Toluene, CAS: 108-88-3

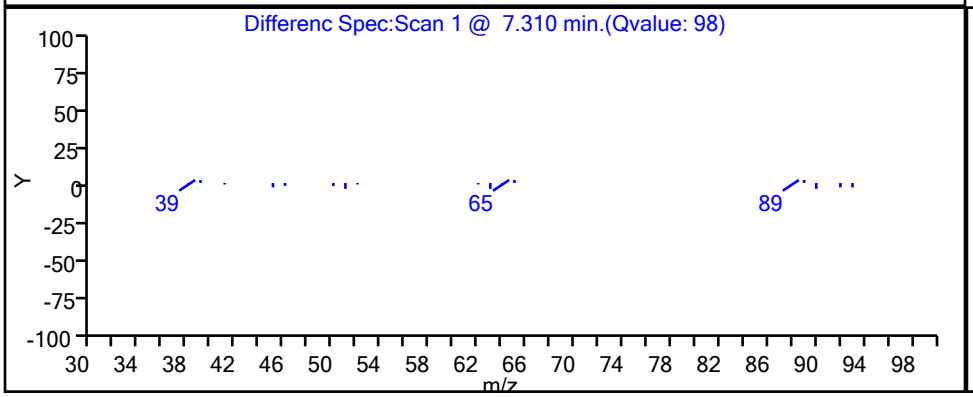


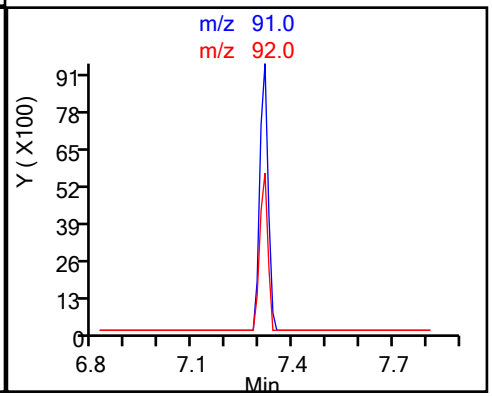








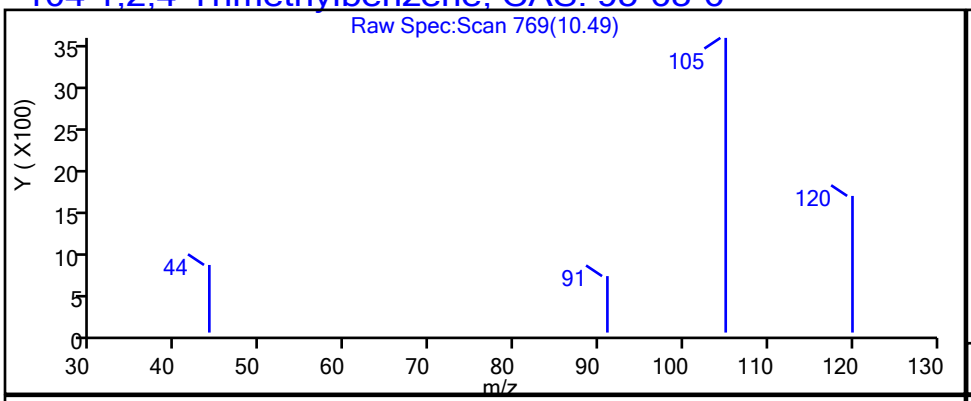


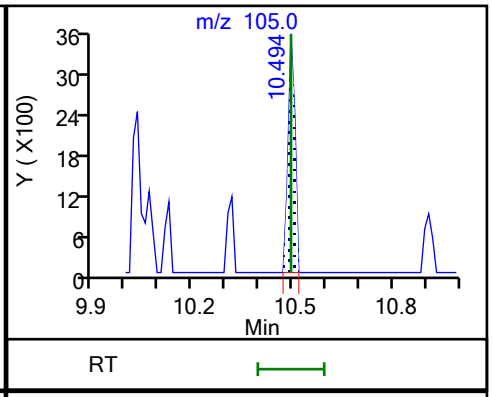


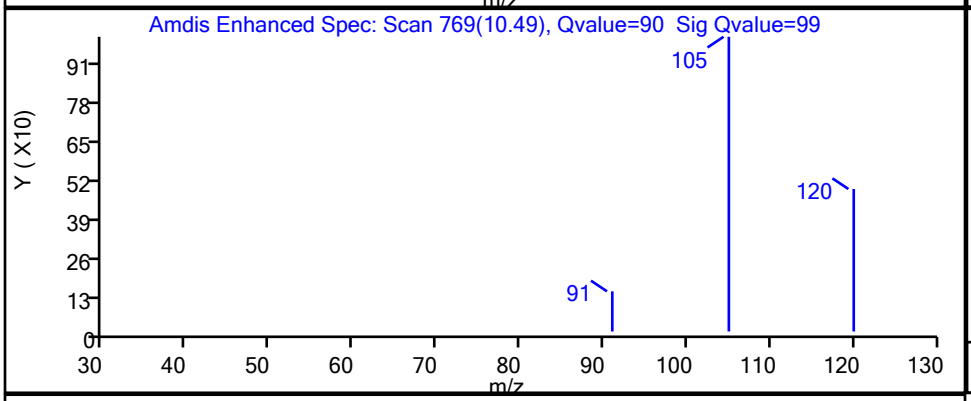
Eurofins TestAmerica, Canton

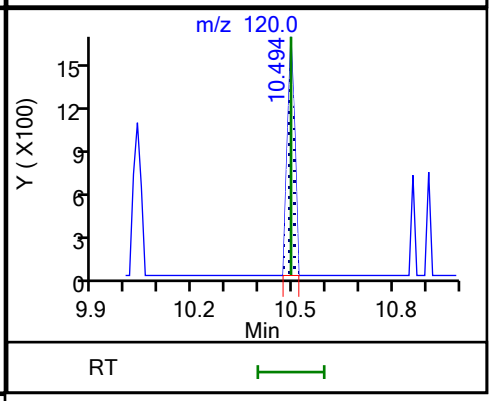
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35627.D				
Injection Date:	11-Mar-2021 17:05:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-C-12	Lab Sample ID:	240-145599-12		
Client ID:	MSA-SW40D-030821				
Operator ID:	001765	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

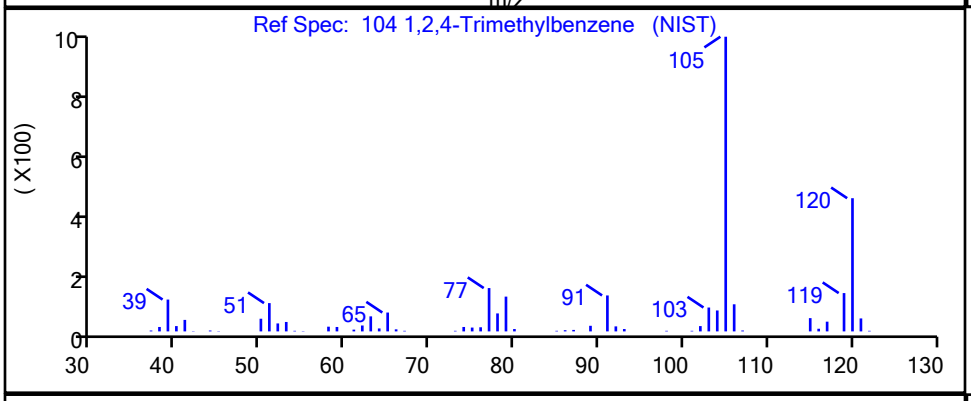
104 1,2,4-Trimethylbenzene, CAS: 95-63-6

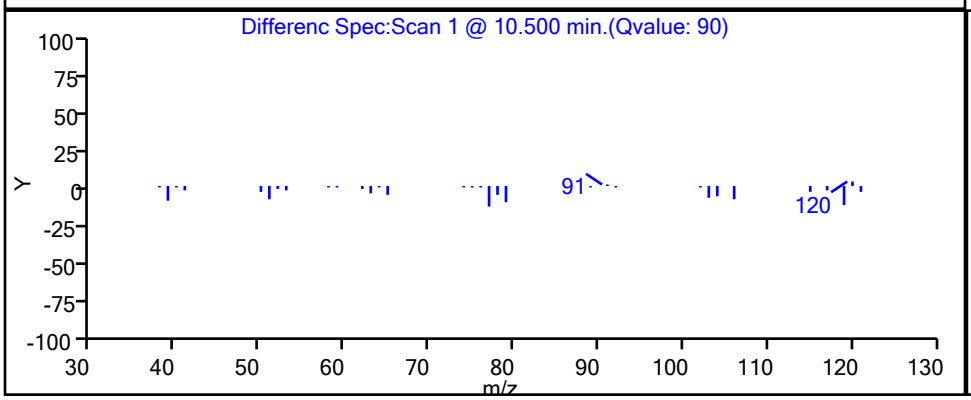


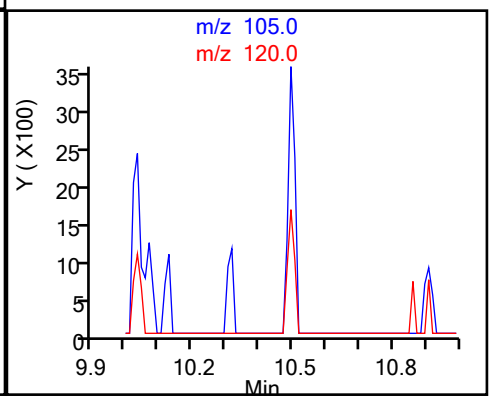












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41A-030821 Lab Sample ID: 240-145599-13

Matrix: Water Lab File ID: UXM35628.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.27	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41A-030821 Lab Sample ID: 240-145599-13

Matrix: Water Lab File ID: UXM35628.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.15	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.18	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.36	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41A-030821 Lab Sample ID: 240-145599-13

Matrix: Water Lab File ID: UXM35628.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.15	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	87		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41A-030821 Lab Sample ID: 240-145599-13

Matrix: Water Lab File ID: UXM35628.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41A-030821 Lab Sample ID: 240-145599-13

Matrix: Water Lab File ID: UXM35628.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35628.D
Lims ID: 240-145599-A-13
Client ID: MSA-SW41A-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 17:30:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-023
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:59:53

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	1117997	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	83	932514	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	521833	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	93	304651	25.0	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.585	0.011	98	326593	24.8	
$	6 Toluene-d8 (Surr)	98	7.257	7.245	0.012	92	1091603	21.8	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.712	0.011	96	459269	25.4	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	94	6782	0.3586	
	13 Bromomethane	94		2.371				ND	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.296	0.012	93	1897	1.90	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	74	3891	0.2689	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	97	10387	0.1776	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	91	4055	0.1515	
86 o-Xylene	106		9.190				ND	7
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.1515	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

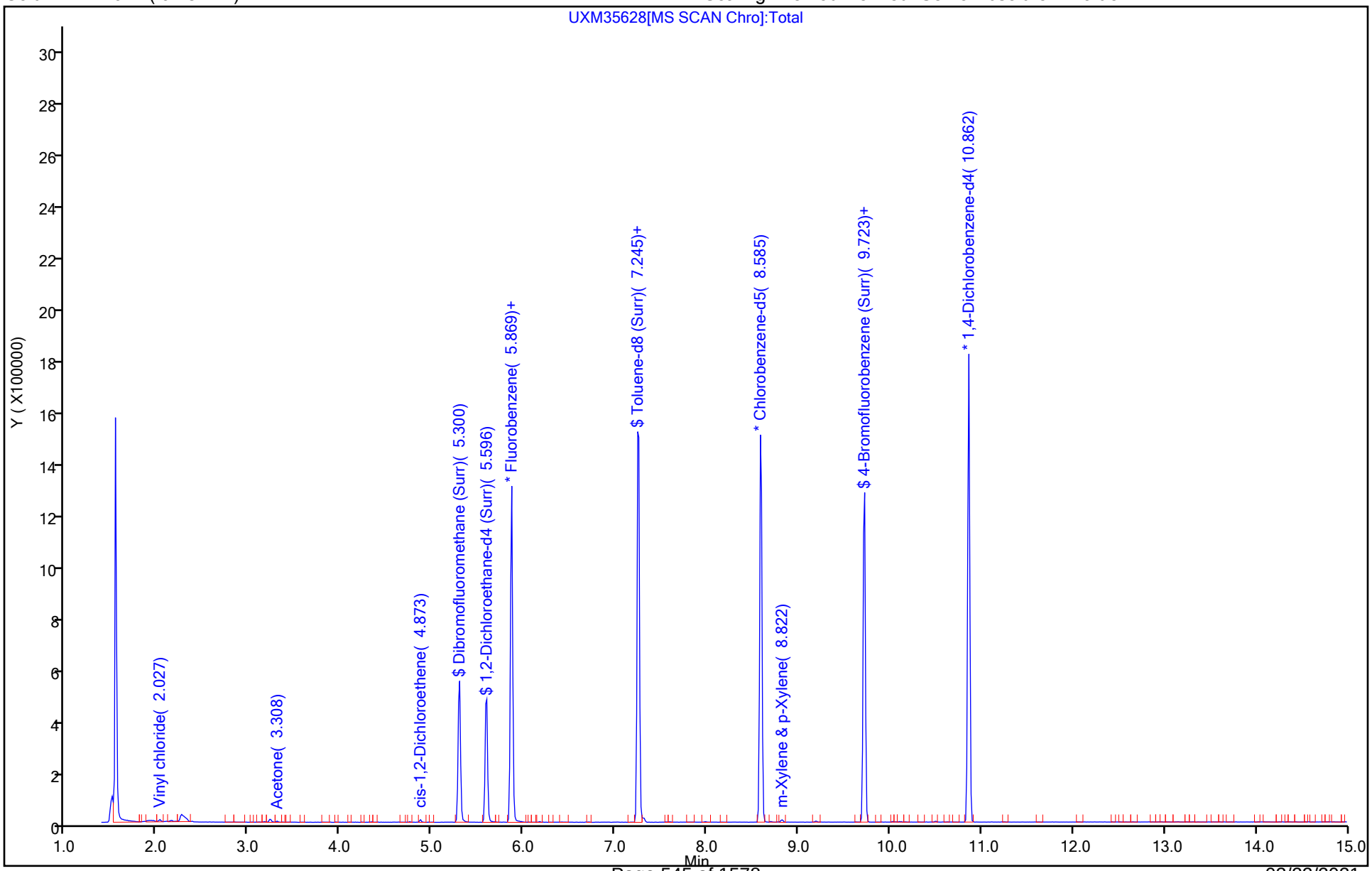
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 12-Mar-2021 08:59:54 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35628.D				
Injection Date:	11-Mar-2021 17:30:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-A-13	Lab Sample ID:	240-145599-13	Worklist Smp#:	23
Client ID:	MSA-SW41A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35628.D				
Lims ID:	240-145599-A-13				
Client ID:	MSA-SW41A-030821				
Sample Type:	Client				
Inject. Date:	11-Mar-2021 17:30:30	ALS Bottle#:	23	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107193-023				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	11-Mar-2021 21:07:20	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1602				

First Level Reviewer: bosworthh Date: 12-Mar-2021 08:59:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	25.0	100.32
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.8	99.35
$ 6 Toluene-d8 (Surr)	24.9	21.8	87.37
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.4	101.84

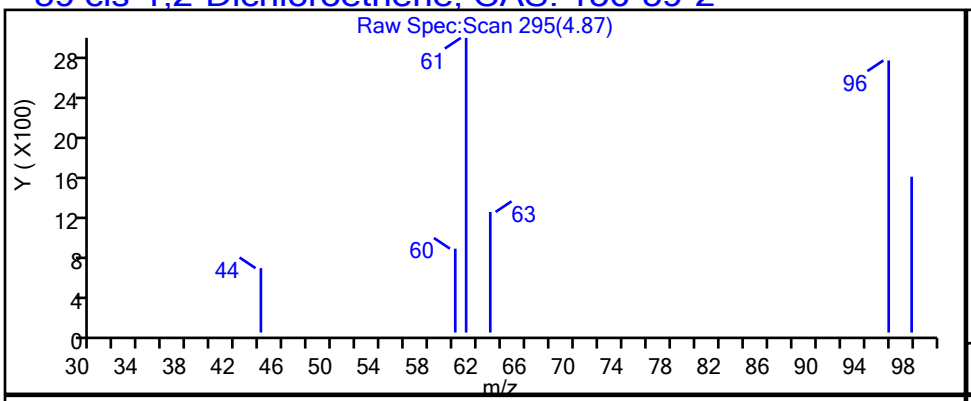
Report Date: 12-Mar-2021 08:59:54 Chrom Revision: 2.3 05-Feb-2021 00:13:28

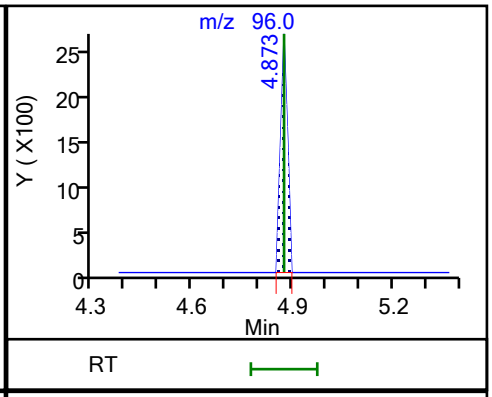
Eurofins TestAmerica, Canton

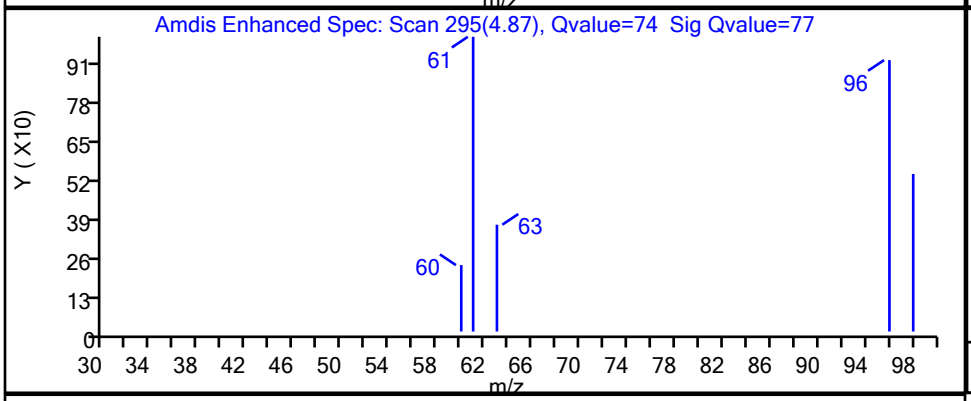
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35628.D

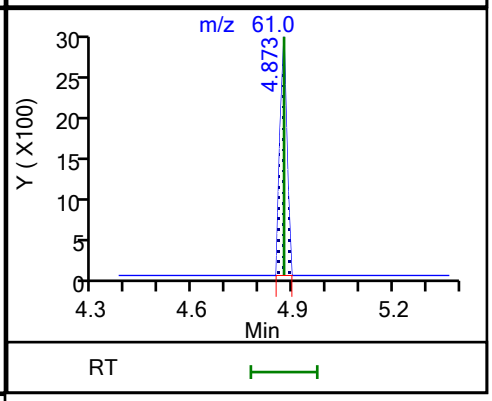
Injection Date:	11-Mar-2021 17:30:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-A-13	Lab Sample ID:	240-145599-13		
Client ID:	MSA-SW41A-030821				
Operator ID:	001765	ALS Bottle#:	23	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

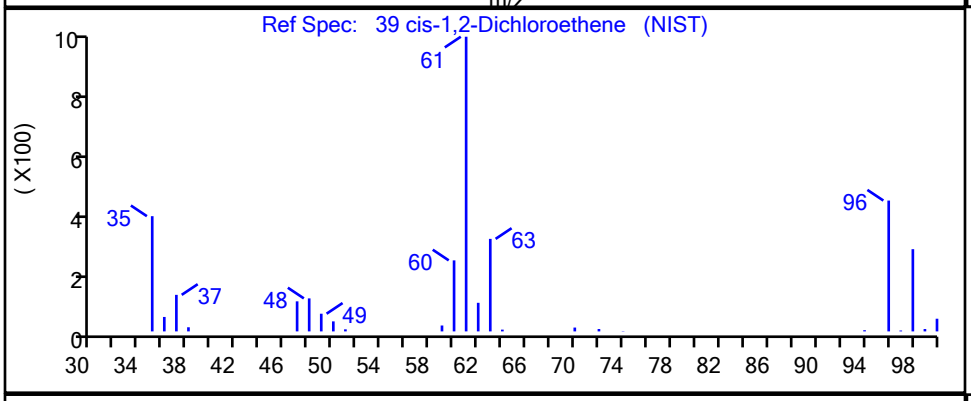
39 cis-1,2-Dichloroethene, CAS: 156-59-2

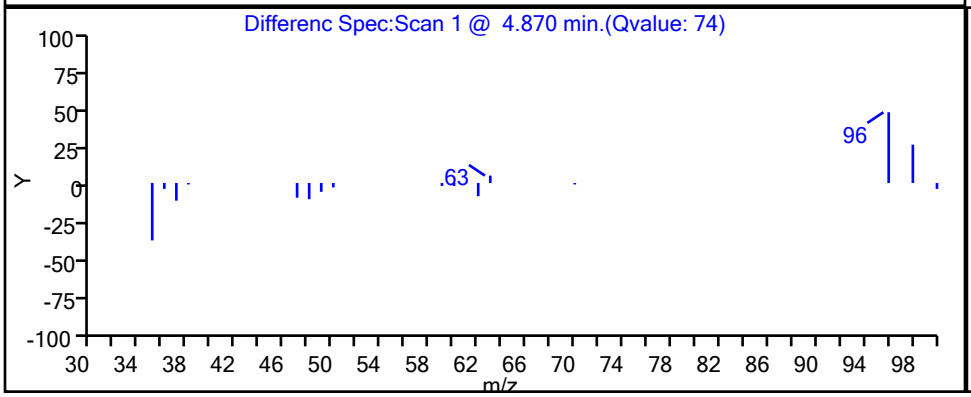


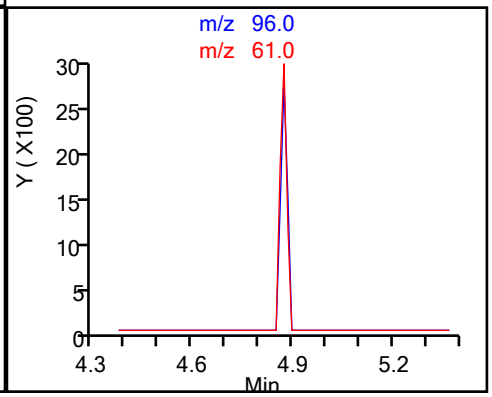








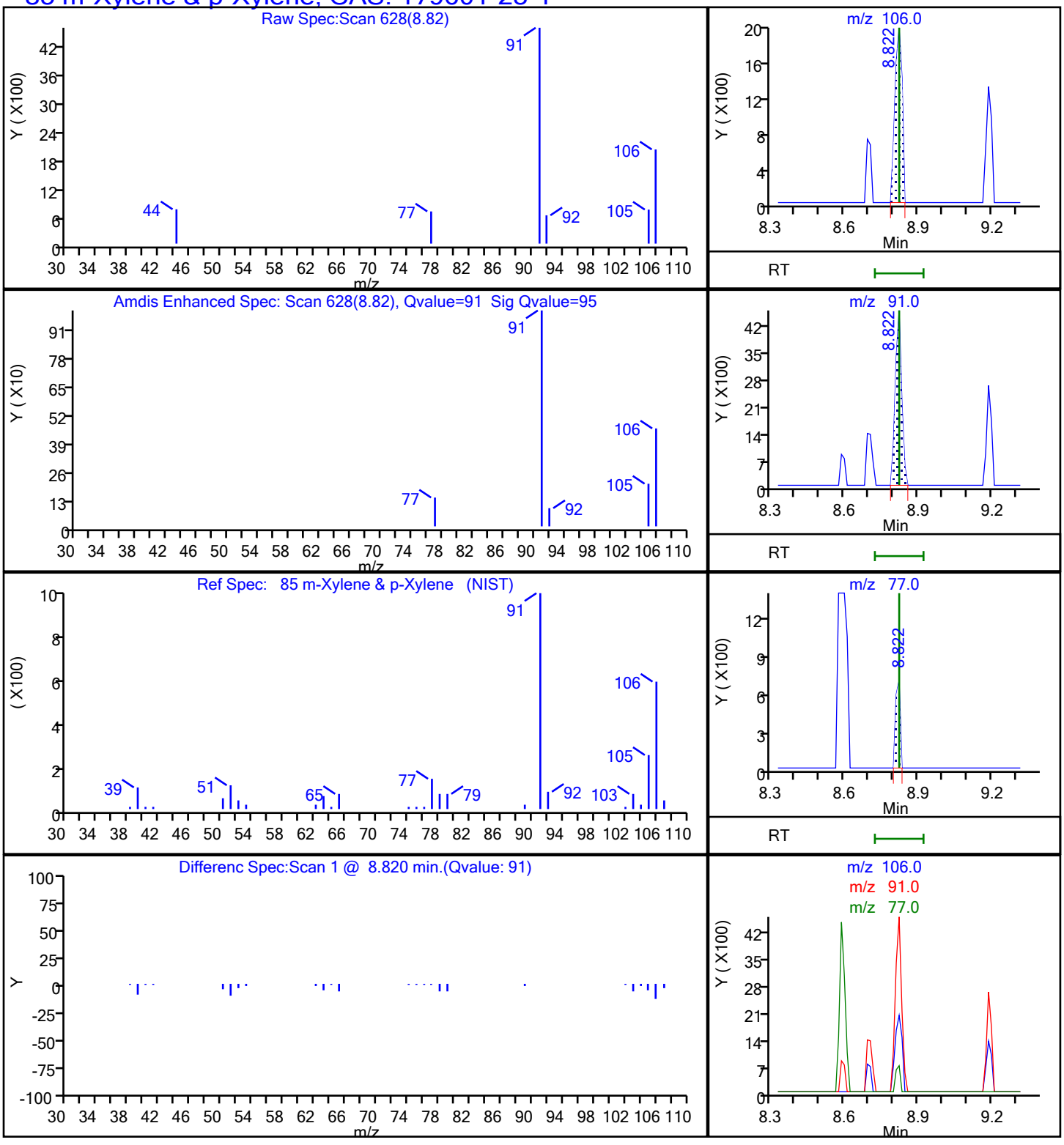




Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35628.D				
Injection Date:	11-Mar-2021 17:30:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-A-13	Lab Sample ID:	240-145599-13		
Client ID:	MSA-SW41A-030821				
Operator ID:	001765	ALS Bottle#:	23	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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

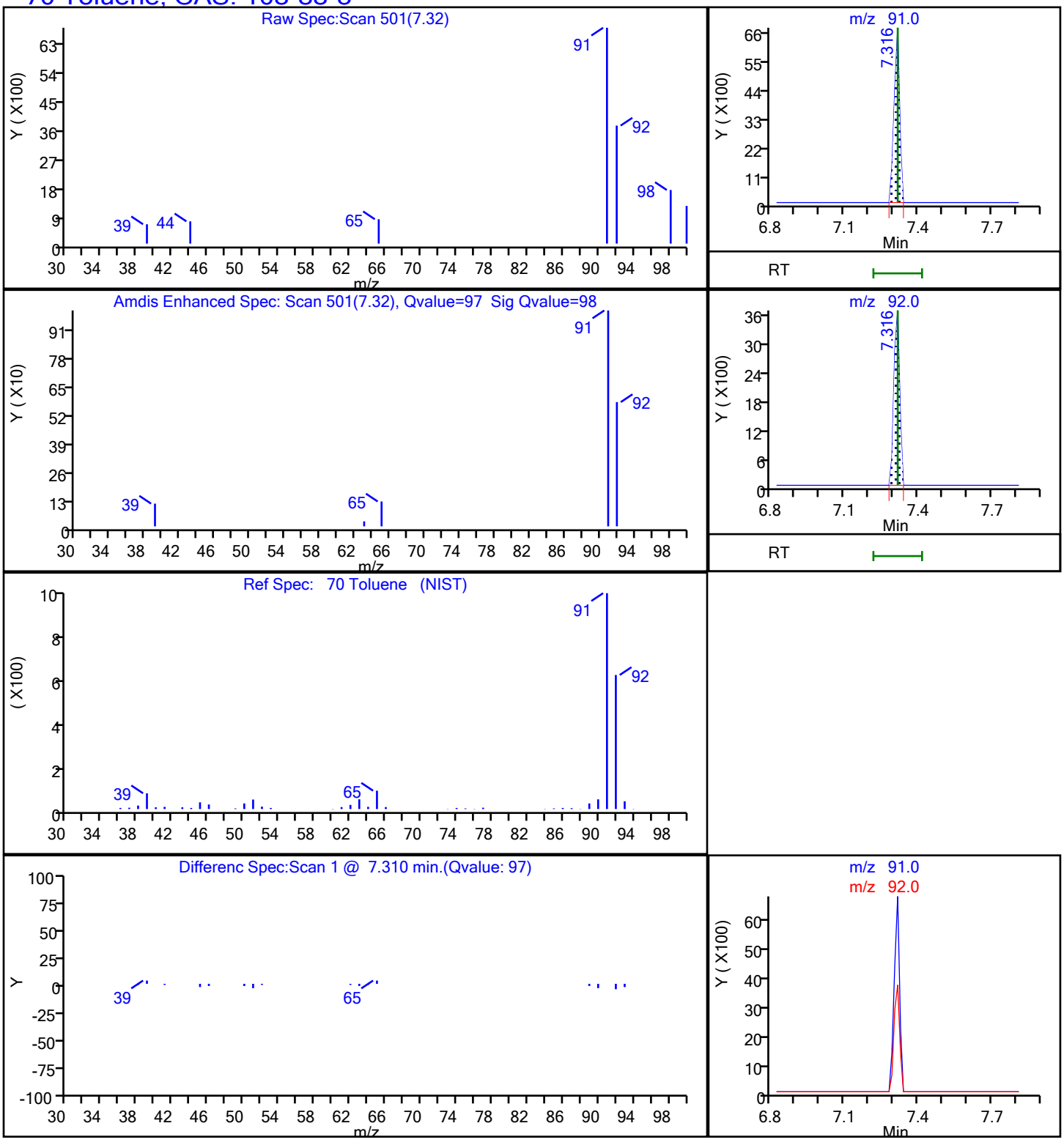


Report Date: 12-Mar-2021 08:59:54 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35628.D				
Injection Date:	11-Mar-2021 17:30:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-A-13	Lab Sample ID:	240-145599-13		
Client ID:	MSA-SW41A-030821				
Operator ID:	001765	ALS Bottle#:	23	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

70 Toluene, CAS: 108-88-3



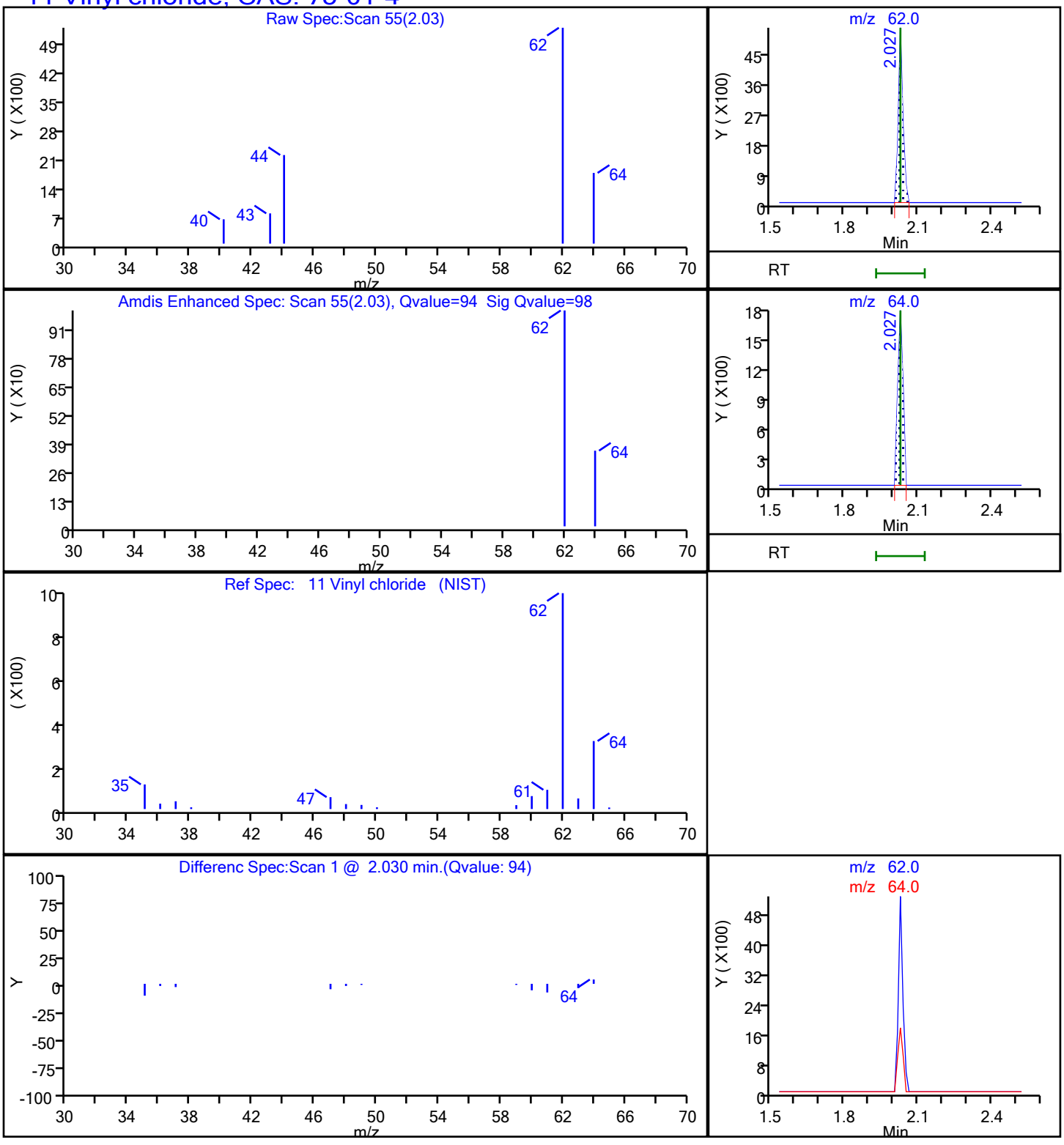
Report Date: 12-Mar-2021 08:59:54 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35628.D

Injection Date:	11-Mar-2021 17:30:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-A-13	Lab Sample ID:	240-145599-13		
Client ID:	MSA-SW41A-030821				
Operator ID:	001765	ALS Bottle#:	23	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41B-030821 Lab Sample ID: 240-145599-14

Matrix: Water Lab File ID: UXM35629.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41B-030821 Lab Sample ID: 240-145599-14

Matrix: Water Lab File ID: UXM35629.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.22	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.12	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.30	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.24	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41B-030821 Lab Sample ID: 240-145599-14

Matrix: Water Lab File ID: UXM35629.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.34	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	101		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-130
2037-26-5	Toluene-d8 (Surr)	87		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41B-030821 Lab Sample ID: 240-145599-14

Matrix: Water Lab File ID: UXM35629.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41B-030821 Lab Sample ID: 240-145599-14

Matrix: Water Lab File ID: UXM35629.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:36

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35629.D
Lims ID: 240-145599-B-14
Client ID: MSA-SW41B-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 17:54:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-024
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 09:00:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	1115235	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	83	913542	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	501514	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	93	305130	25.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	319032	24.2	
$ 6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	93	1065913	21.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	95	450780	25.4	
9 Dichlorodifluoromethane	85		1.719				ND	
10 Chloromethane	50		1.909				ND	
11 Vinyl chloride	62	2.027	2.027	0.000	94	4480	0.2374	
13 Bromomethane	94	2.371	2.371	0.000	10	1535	0.1267	
14 Chloroethane	64		2.490				ND	
16 Trichlorofluoromethane	101		2.751				ND	
19 1,1-Dichloroethene	96		3.261				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
21 Acetone	58	3.308	3.296	0.012	99	923	0.9273	
24 Carbon disulfide	76		3.474				ND	
28 Methylene Chloride	84		3.735				ND	
29 2-Methyl-2-propanol	59		3.806				ND	
31 Methyl tert-butyl ether	73		3.960				ND	
32 trans-1,2-Dichloroethene	96		3.984				ND	
35 Vinyl acetate	43		4.363				ND	
34 1,1-Dichloroethane	63		4.375				ND	
36 Isopropyl ether	87		4.387				ND	
38 Tert-butyl ethyl ether	59		4.707				ND	
40 2-Butanone (MEK)	72		4.850				ND	
41 2,2-Dichloropropane	77		4.873				ND	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	75	1895	0.1313	
45 Chlorobromomethane	128		5.075				ND	
47 Chloroform	83		5.158				ND	
48 1,1,1-Trichloroethane	97		5.312				ND	
50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	97	17000	0.2968	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106	8.810	8.822	-0.012	92	5782	0.2205	
86 o-Xylene	106	9.190	9.190	0.000	86	3024	0.1207	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.3411	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

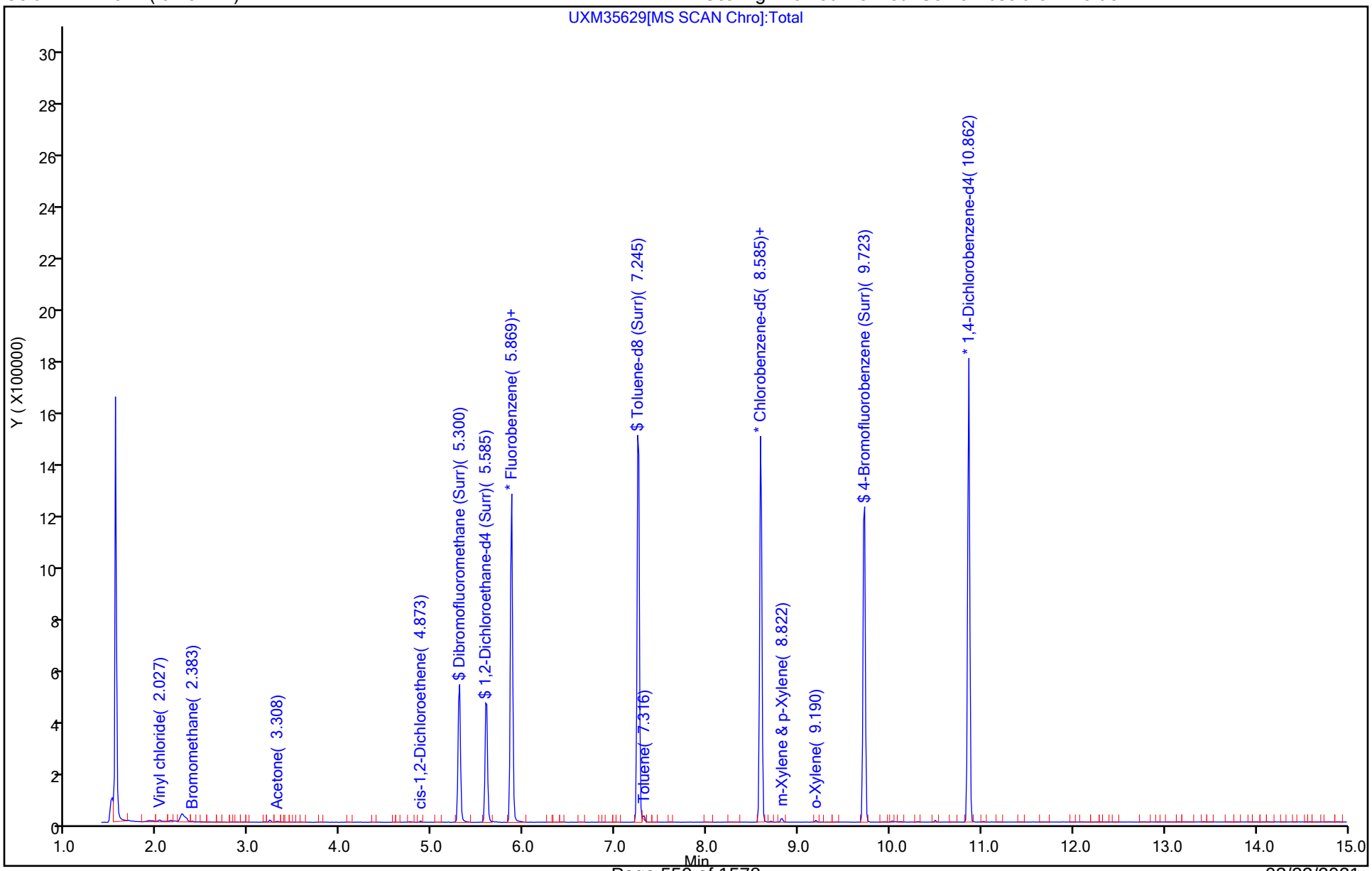
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 12-Mar-2021 09:00:34 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35629.D				
Injection Date:	11-Mar-2021 17:54:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-14	Lab Sample ID:	240-145599-14	Worklist Smp#:	24
Client ID:	MSA-SW41B-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35629.D
Lims ID: 240-145599-B-14
Client ID: MSA-SW41B-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 17:54:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-024
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

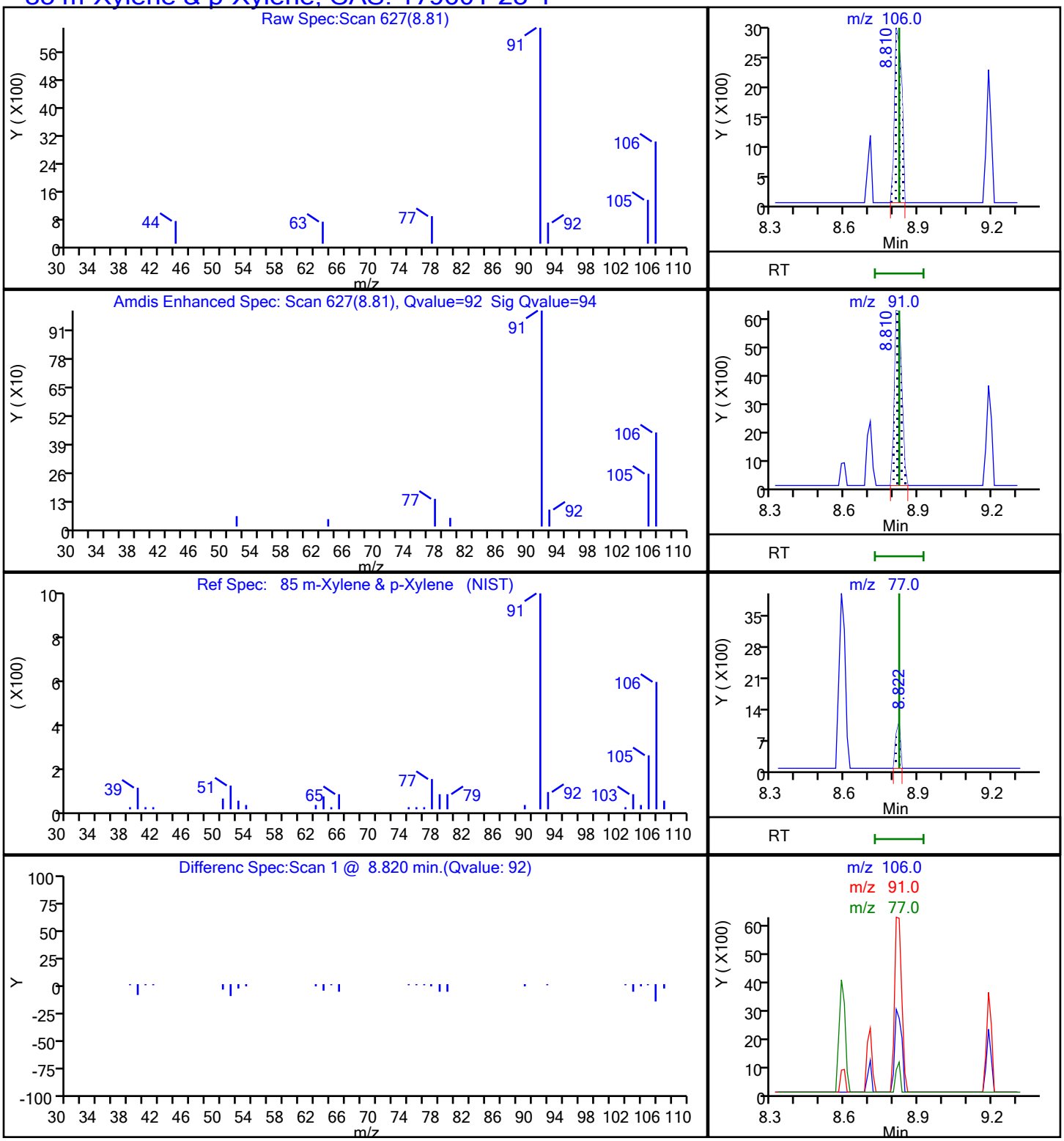
First Level Reviewer: bosworthh Date: 12-Mar-2021 09:00:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	25.1	100.73
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.2	97.29
$ 6 Toluene-d8 (Surr)	24.9	21.7	87.08
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.4	102.03

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35629.D				
Injection Date:	11-Mar-2021 17:54:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-14	Lab Sample ID:	240-145599-14		
Client ID:	MSA-SW41B-030821				
Operator ID:	001765	ALS Bottle#:	24	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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



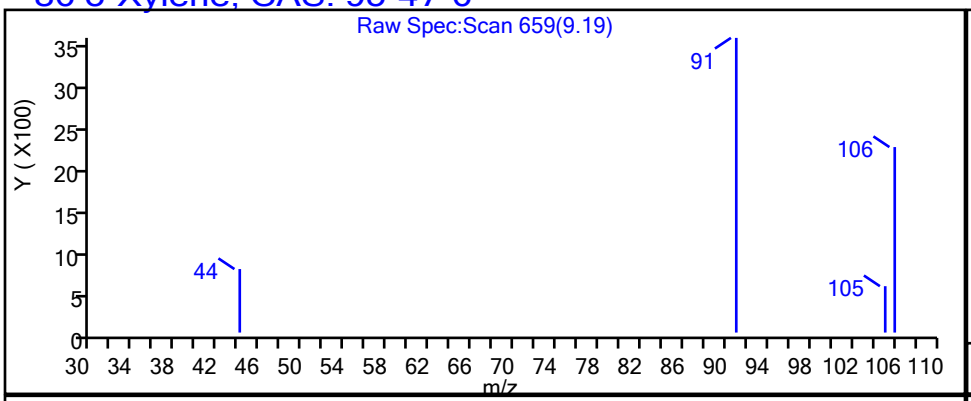
Report Date: 12-Mar-2021 09:00:34 Chrom Revision: 2.3 05-Feb-2021 00:13:28

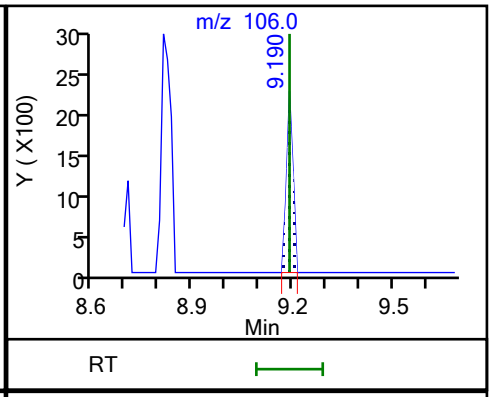
Eurofins TestAmerica, Canton

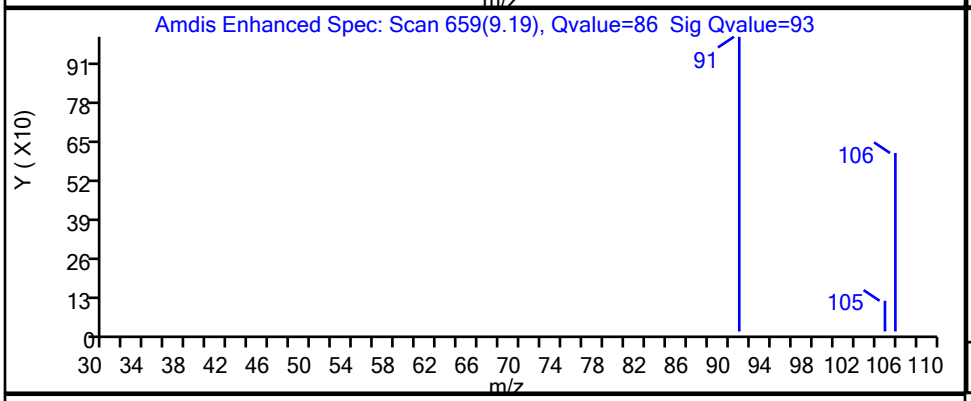
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35629.D

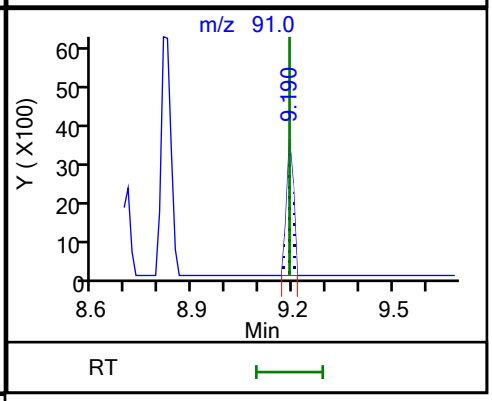
Injection Date:	11-Mar-2021 17:54:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-14	Lab Sample ID:	240-145599-14		
Client ID:	MSA-SW41B-030821				
Operator ID:	001765	ALS Bottle#:	24	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

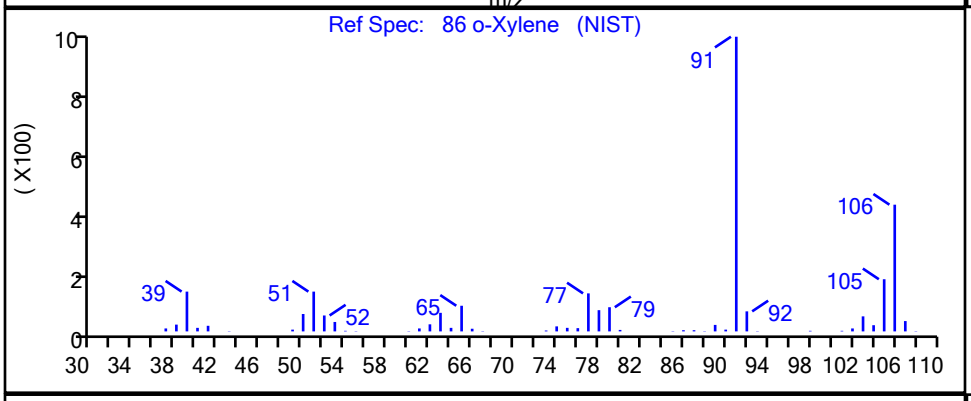
86 o-Xylene, CAS: 95-47-6

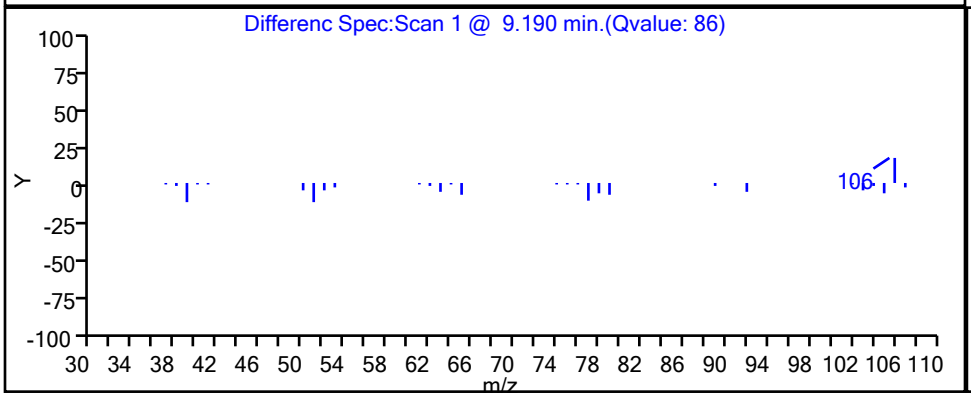


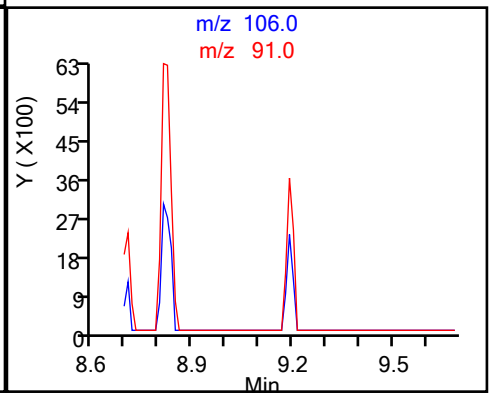












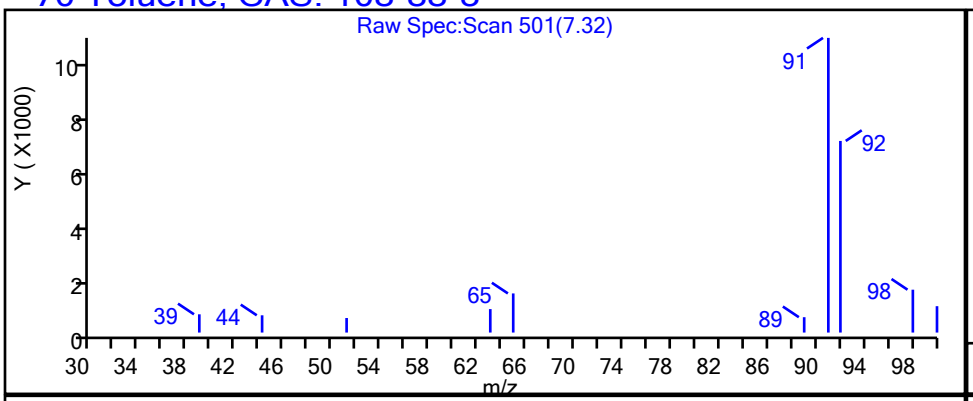
Report Date: 12-Mar-2021 09:00:34 Chrom Revision: 2.3 05-Feb-2021 00:13:28

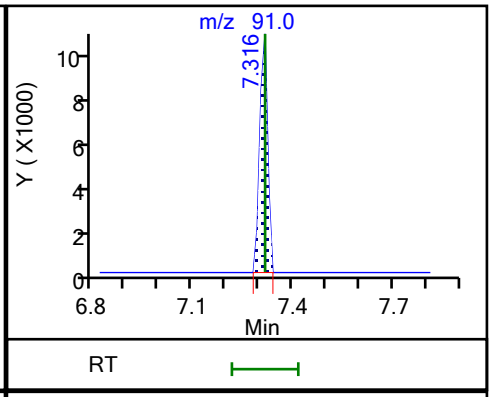
Eurofins TestAmerica, Canton

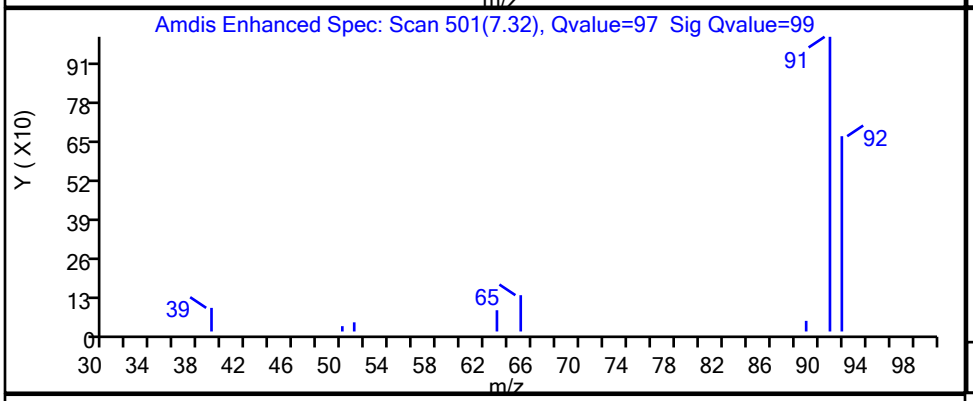
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35629.D

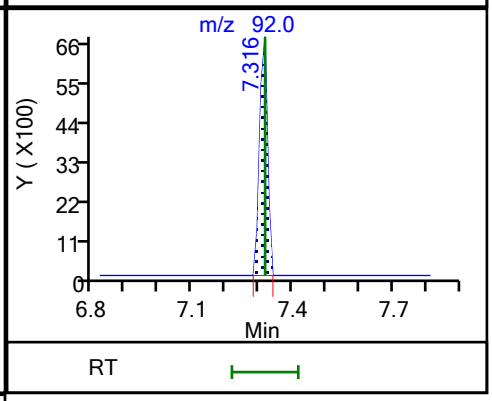
Injection Date:	11-Mar-2021 17:54:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-14	Lab Sample ID:	240-145599-14		
Client ID:	MSA-SW41B-030821				
Operator ID:	001765	ALS Bottle#:	24	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

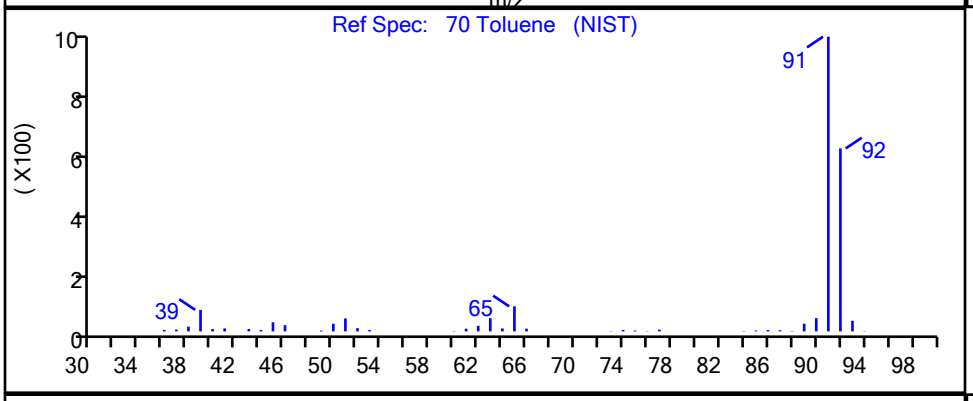
70 Toluene, CAS: 108-88-3

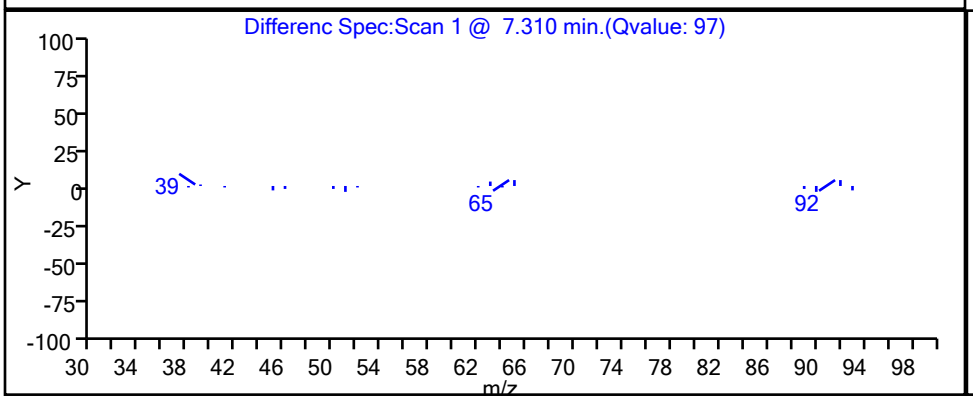


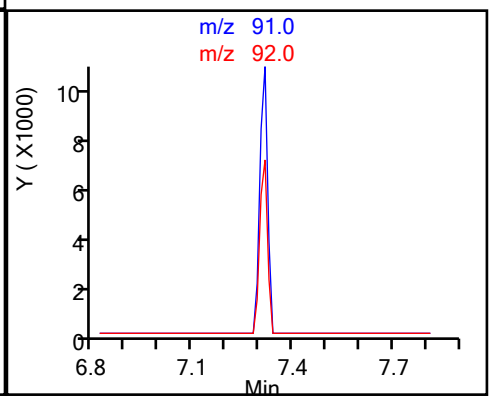








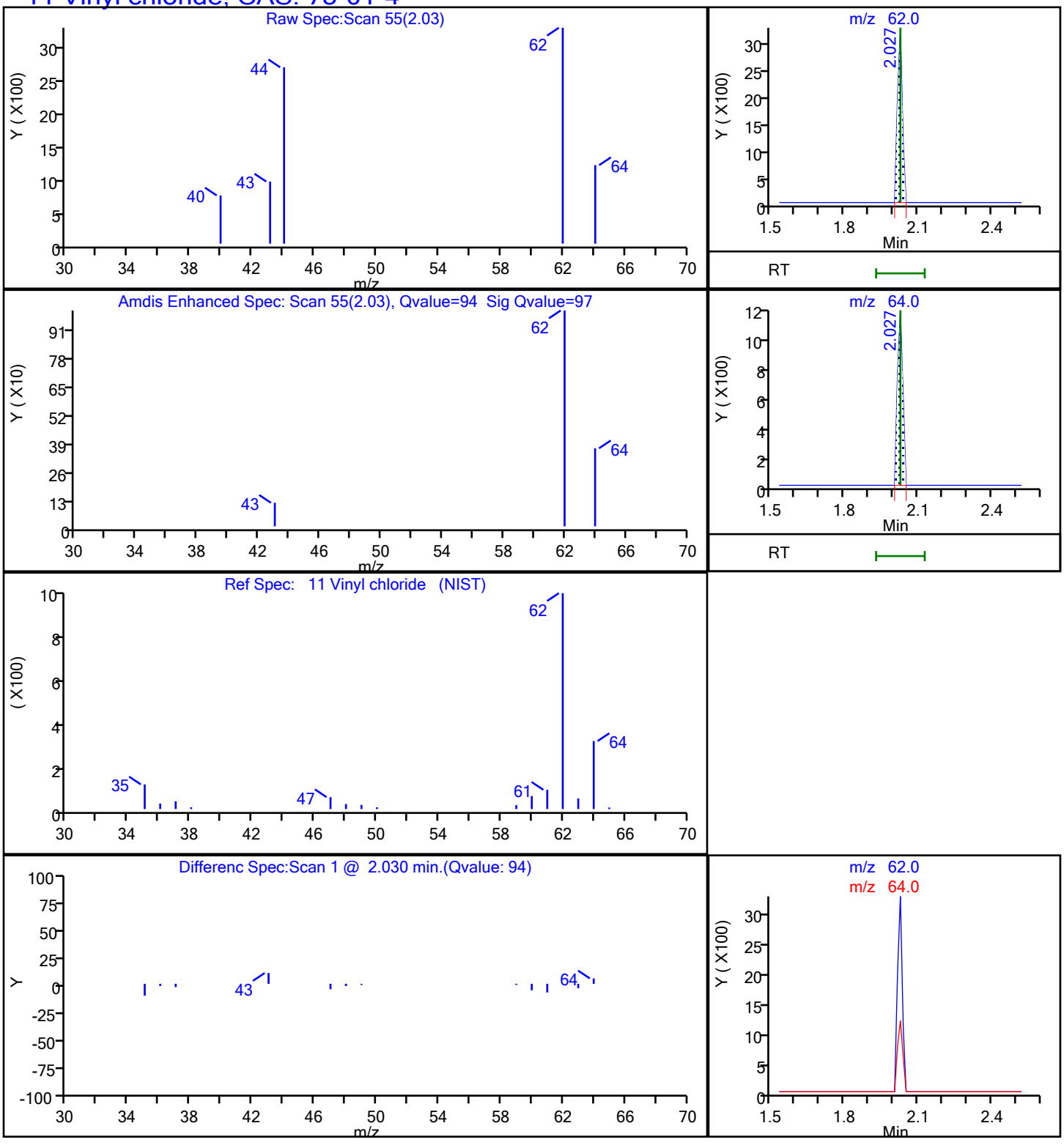




Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35629.D				
Injection Date:	11-Mar-2021 17:54:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-14	Lab Sample ID:	240-145599-14		
Client ID:	MSA-SW41B-030821				
Operator ID:	001765	ALS Bottle#:	24	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41C-030821 Lab Sample ID: 240-145599-15

Matrix: Water Lab File ID: UXM35630.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:39

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41C-030821 Lab Sample ID: 240-145599-15

Matrix: Water Lab File ID: UXM35630.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:39

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.18	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.10	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.26	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41C-030821 Lab Sample ID: 240-145599-15

Matrix: Water Lab File ID: UXM35630.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:39

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.28	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41C-030821 Lab Sample ID: 240-145599-15

Matrix: Water Lab File ID: UXM35630.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:39

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41C-030821 Lab Sample ID: 240-145599-15

Matrix: Water Lab File ID: UXM35630.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:39

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35630.D
Lims ID: 240-145599-B-15
Client ID: MSA-SW41C-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 18:19:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-025
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 09:01:11

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	1042831	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	83	870402	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	478889	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	298683	26.3	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	97	305753	24.8	
$	6 Toluene-d8 (Surr)	98	7.257	7.245	0.012	92	1032793	22.1	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.712	0.011	97	426543	25.3	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	92	2226	0.1262	
	13 Bromomethane	94		2.371				ND	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.296	0.012	95	1659	1.78	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96		4.873				ND	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	95	14224	0.2606	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	95	4426	0.1771	
86 o-Xylene	106	9.190	9.190	0.000	90	2423	0.1015	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.2786	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

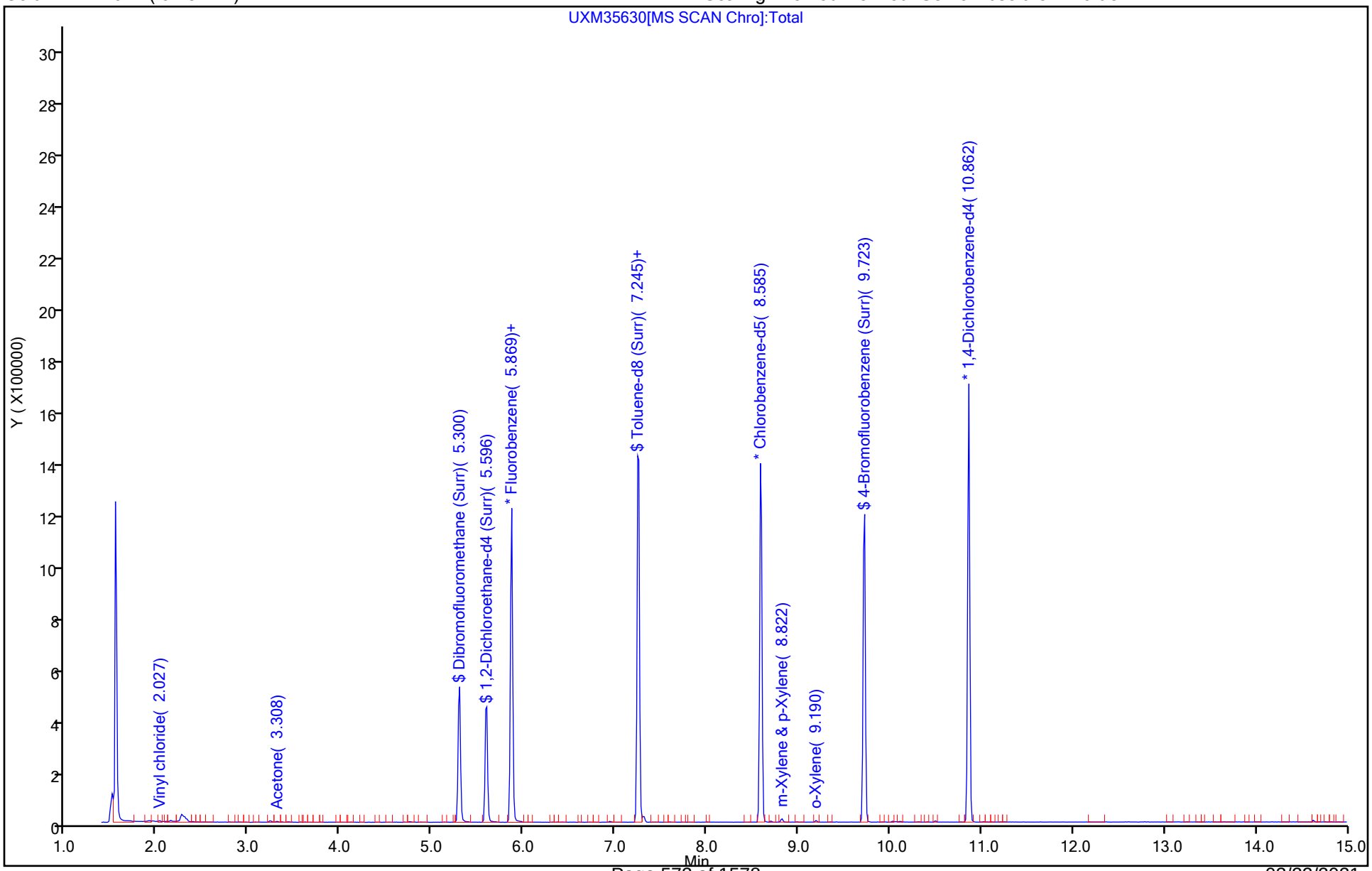
Report Date: 12-Mar-2021 09:01:12 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35630.D

Injection Date:	11-Mar-2021 18:19:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-15	Lab Sample ID:	240-145599-15	Worklist Smp#:	25
Client ID:	MSA-SW41C-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35630.D
Lims ID: 240-145599-B-15
Client ID: MSA-SW41C-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 18:19:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-025
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 09:01:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.3	105.45
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.8	99.72
$ 6 Toluene-d8 (Surr)	24.9	22.1	88.56
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.3	101.33

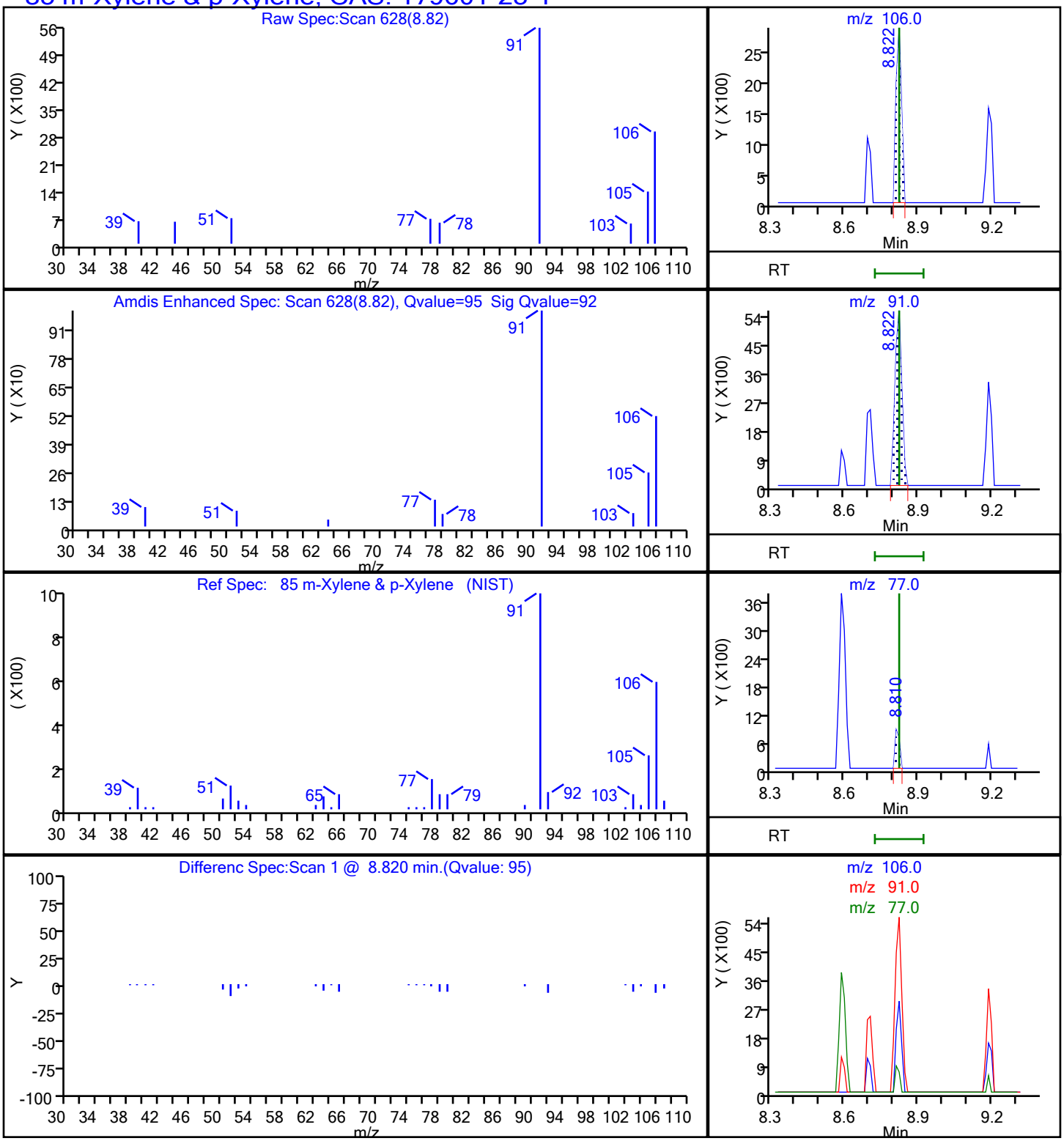
Report Date: 12-Mar-2021 09:01:12 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35630.D

Injection Date:	11-Mar-2021 18:19:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-15	Lab Sample ID:	240-145599-15		
Client ID:	MSA-SW41C-030821				
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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



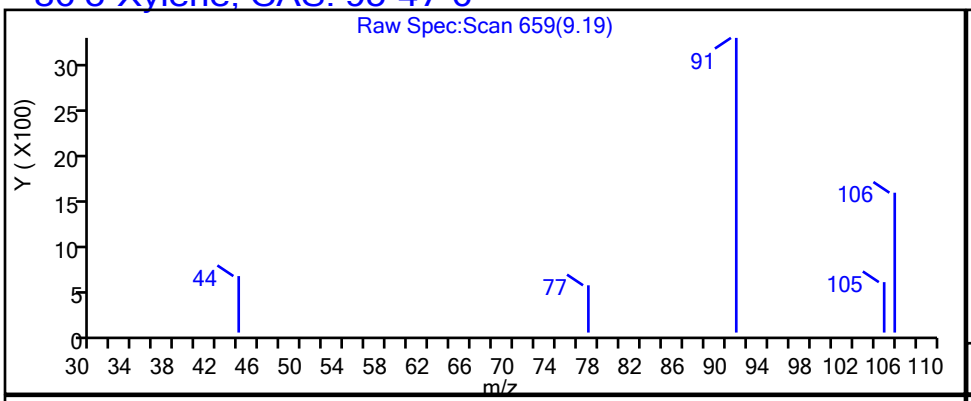
Report Date: 12-Mar-2021 09:01:12 Chrom Revision: 2.3 05-Feb-2021 00:13:28

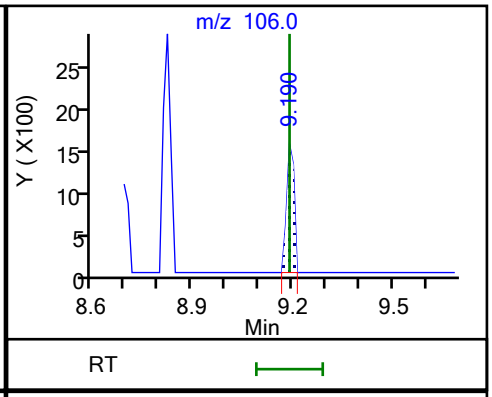
Eurofins TestAmerica, Canton

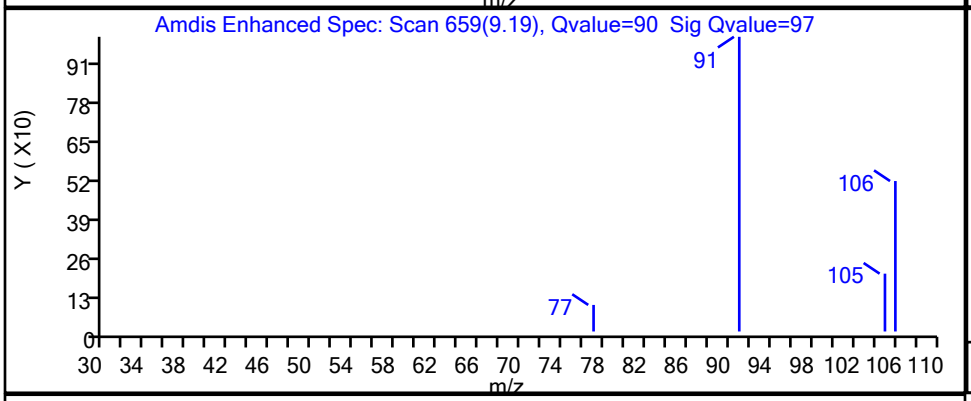
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35630.D

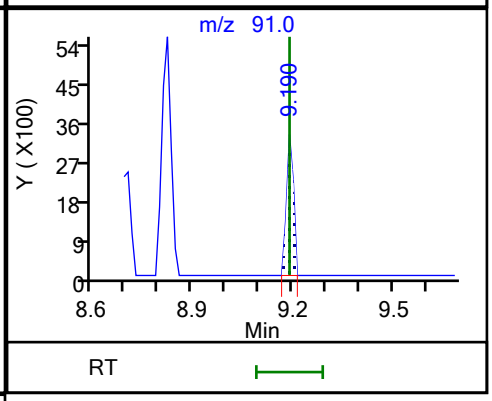
Injection Date:	11-Mar-2021 18:19:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-15	Lab Sample ID:	240-145599-15		
Client ID:	MSA-SW41C-030821				
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

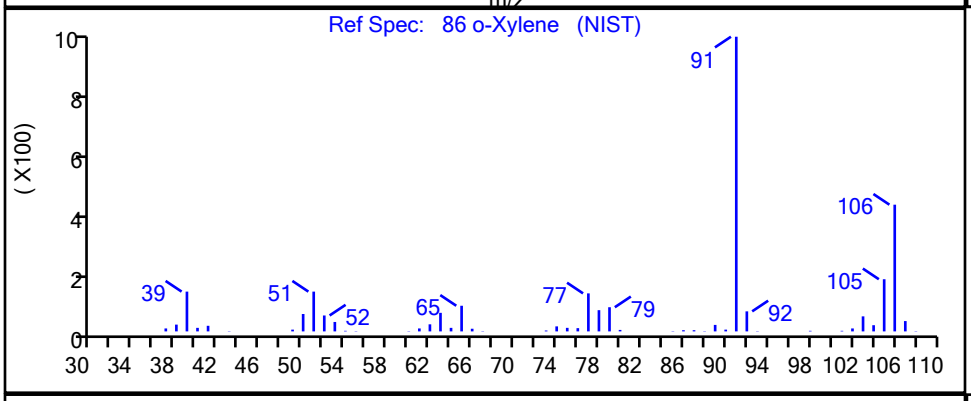
86 o-Xylene, CAS: 95-47-6

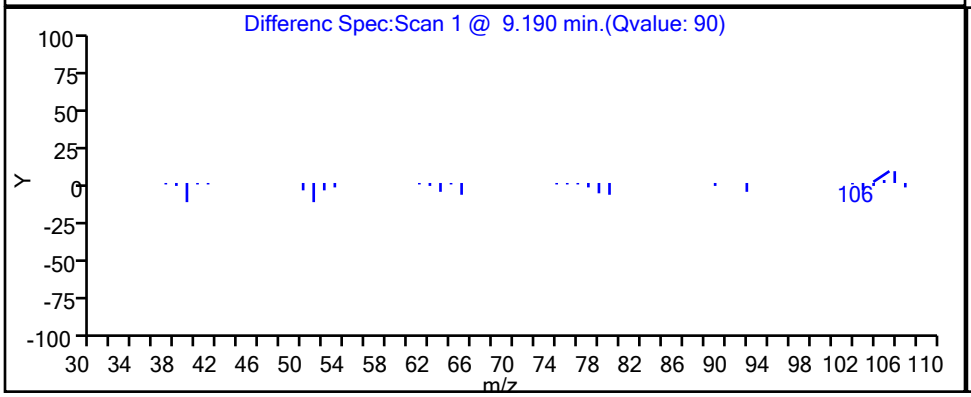


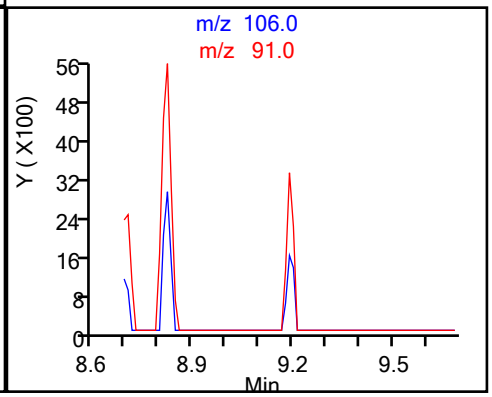










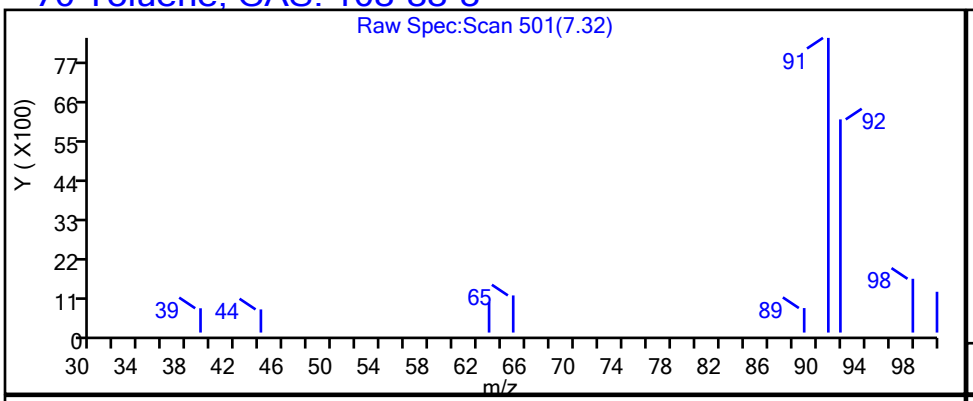


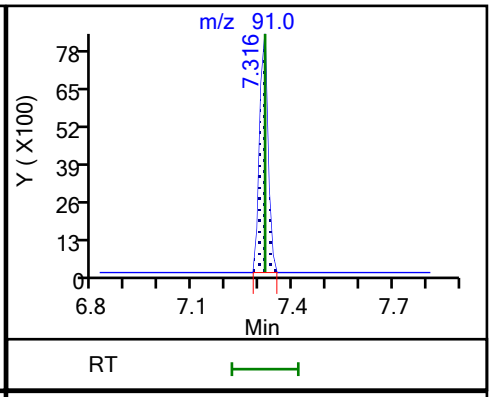
Report Date: 12-Mar-2021 09:01:12 Chrom Revision: 2.3 05-Feb-2021 00:13:28

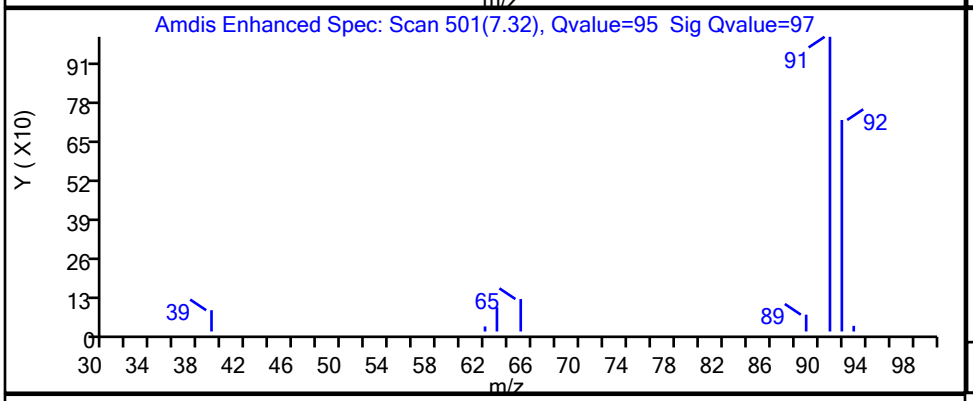
Eurofins TestAmerica, Canton

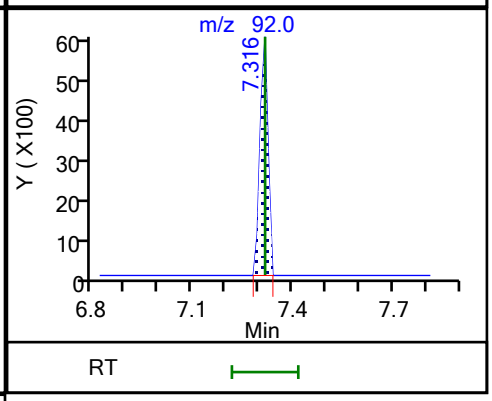
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35630.D				
Injection Date:	11-Mar-2021 18:19:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-15	Lab Sample ID:	240-145599-15		
Client ID:	MSA-SW41C-030821				
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

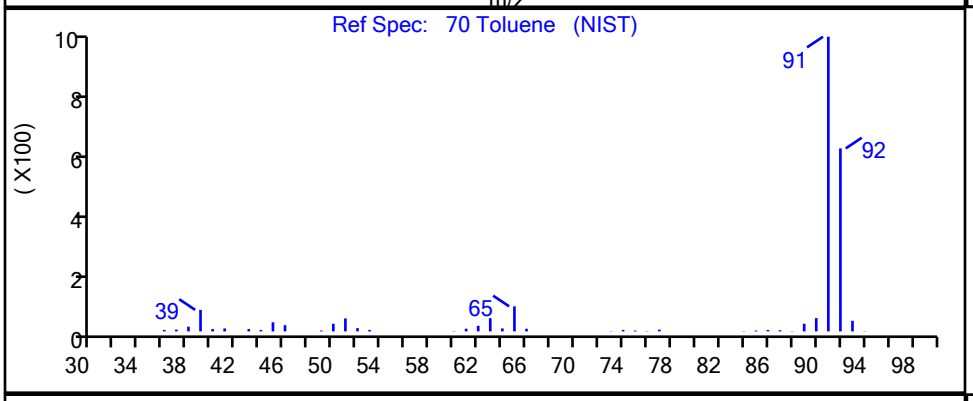
70 Toluene, CAS: 108-88-3

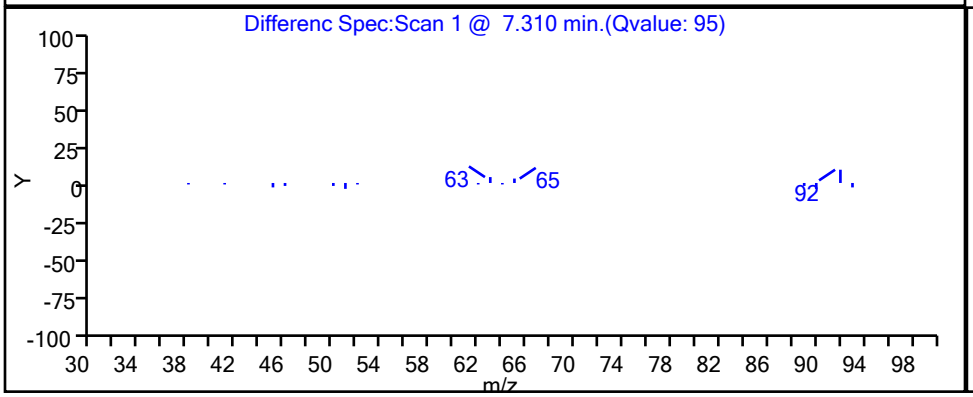


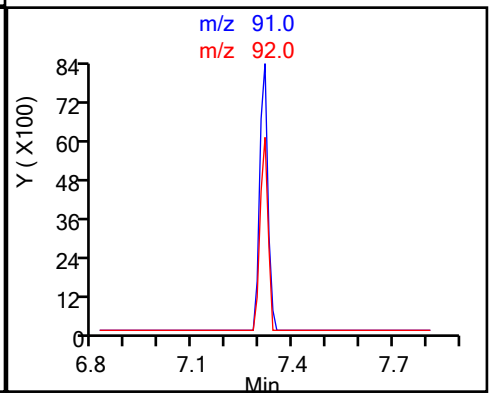












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41D-030821 Lab Sample ID: 240-145599-16

Matrix: Water Lab File ID: UXM35631.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:41

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41D-030821 Lab Sample ID: 240-145599-16

Matrix: Water Lab File ID: UXM35631.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:41

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.25	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41D-030821 Lab Sample ID: 240-145599-16

Matrix: Water Lab File ID: UXM35631.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:41

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		47-134
1868-53-7	Dibromofluoromethane (Surr)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	88		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41D-030821 Lab Sample ID: 240-145599-16

Matrix: Water Lab File ID: UXM35631.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:41

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW41D-030821 Lab Sample ID: 240-145599-16

Matrix: Water Lab File ID: UXM35631.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:41

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 18:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35631.D
Lims ID: 240-145599-B-16
Client ID: MSA-SW41D-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 18:43:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-026
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 09:01:46

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	1057411	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	84	900950	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	482415	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	300205	26.0	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	97	313061	25.1	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1056524	21.8	
$	7 4-Bromofluorobenzene (Surr)	95	9.712	9.712	0.000	96	435129	24.9	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	95	1942	0.1086	
	13 Bromomethane	94	2.371	2.371	0.000	1	1403	0.1221	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.261				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58		3.296				ND	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.850				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96		4.873				ND	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	50 1,1-Dichloropropene	75		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	98	13962	0.2471	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.039				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.621				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.704				ND	
85 m-Xylene & p-Xylene	106		8.822				ND	
86 o-Xylene	106		9.190				ND	7
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.546				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.044				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.779				ND	
107 4-Isopropyltoluene	119		10.803				ND	
108 1,4-Dichlorobenzene	146		10.886				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.218				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

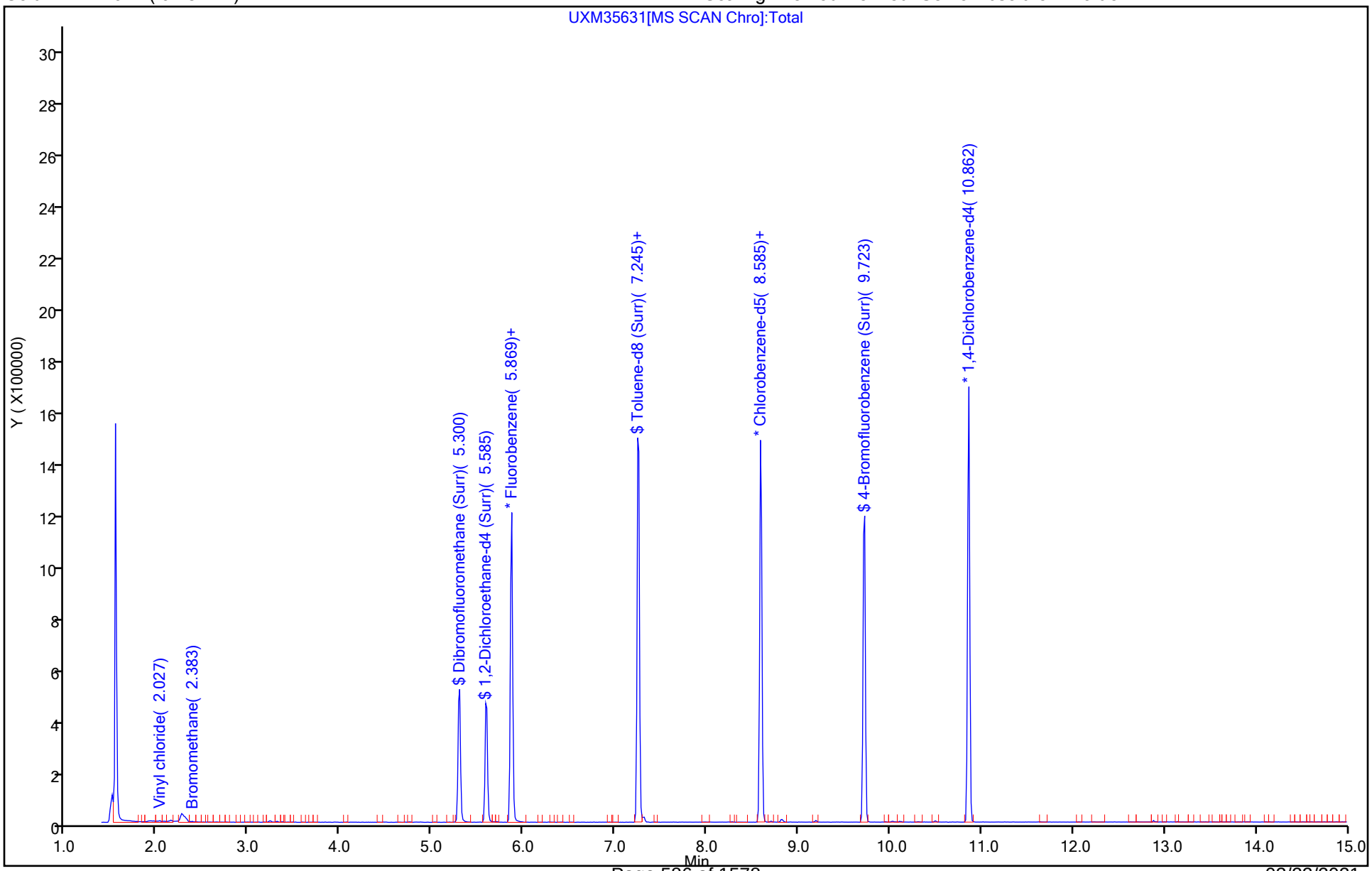
Report Date: 12-Mar-2021 09:01:46 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35631.D

Injection Date:	11-Mar-2021 18:43:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-16	Lab Sample ID:	240-145599-16	Worklist Smp#:	26
Client ID:	MSA-SW41D-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35631.D
Lims ID: 240-145599-B-16
Client ID: MSA-SW41D-030821
Sample Type: Client
Inject. Date: 11-Mar-2021 18:43:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-026
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 21:07:20 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1602

First Level Reviewer: bosworthh Date: 12-Mar-2021 09:01:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.0	104.52
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.1	100.69
$ 6 Toluene-d8 (Surr)	24.9	21.8	87.52
$ 7 4-Bromofluorobenzene (Surr)	24.9	24.9	99.87

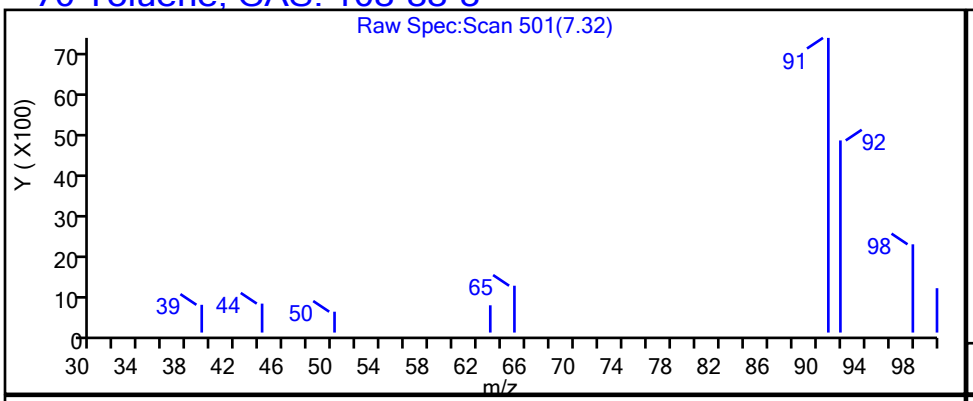
Report Date: 12-Mar-2021 09:01:46 Chrom Revision: 2.3 05-Feb-2021 00:13:28

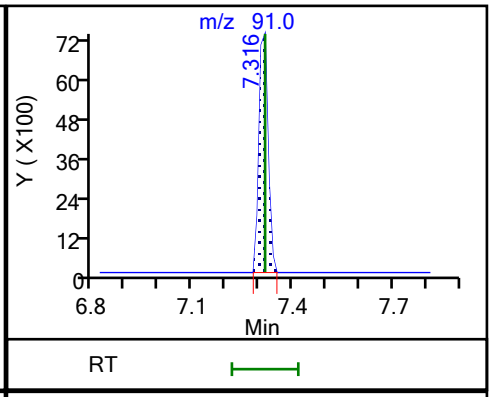
Eurofins TestAmerica, Canton

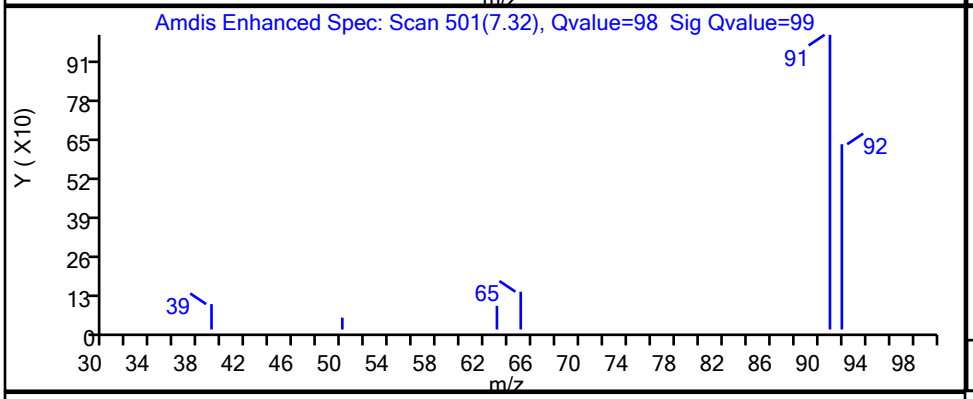
Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35631.D

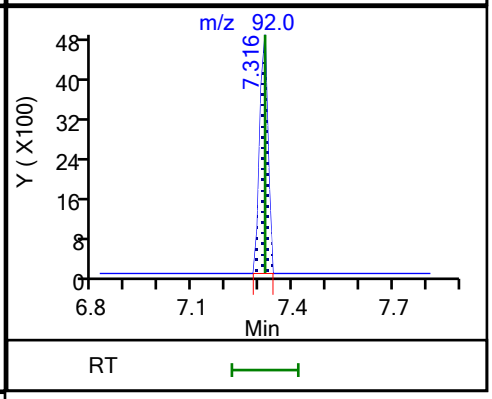
Injection Date:	11-Mar-2021 18:43:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-16	Lab Sample ID:	240-145599-16		
Client ID:	MSA-SW41D-030821				
Operator ID:	001765	ALS Bottle#:	26	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

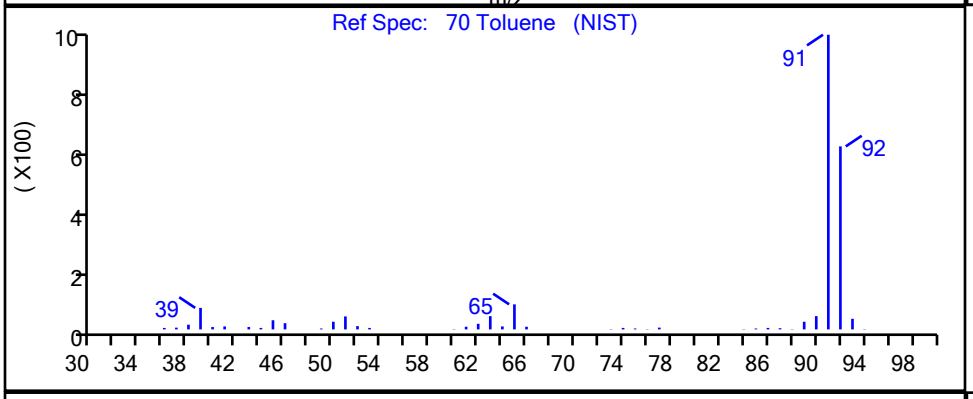
70 Toluene, CAS: 108-88-3

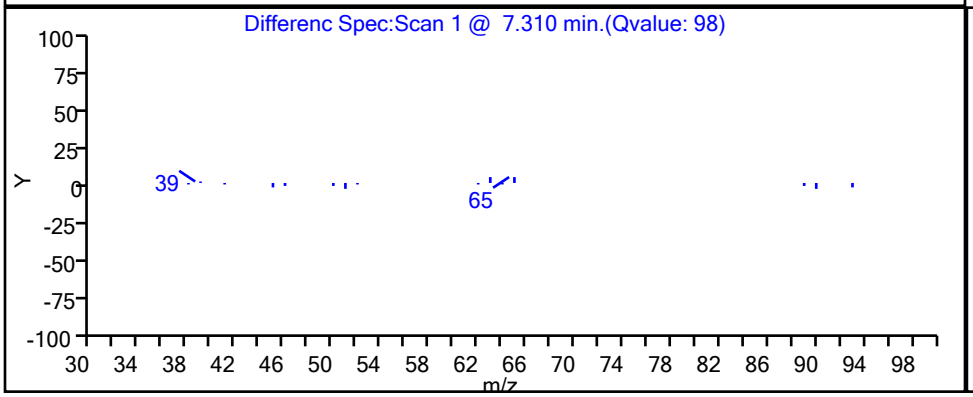


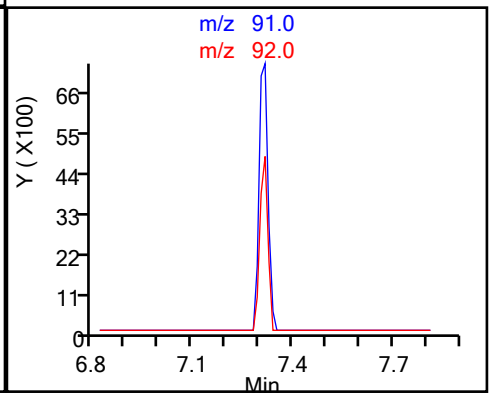












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UXM35689.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.4		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UXM35689.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.29	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.15	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.36	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.14	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
1330-20-7	Xylenes, Total	0.44	J	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UXM35689.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
1868-53-7	Dibromofluoromethane (Surr)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-130
2037-26-5	Toluene-d8 (Surr)	94		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UXM35689.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UXM35689.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35689.D
Lims ID: 240-145599-B-17
Client ID: MSA-SW42A-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 13:57:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-011
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 20:02:51 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 08:08:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1115736	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	86	894670	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	95	462969	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	303704	25.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	337085	25.6	
$ 6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	93	1125410	23.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.712	9.712	0.000	93	464042	26.7	
9 Dichlorodifluoromethane	85		1.719				ND	
10 Chloromethane	50		1.909				ND	U
11 Vinyl chloride	62	2.027	2.027	0.000	98	61625	3.26	
13 Bromomethane	94	2.383	2.383	0.000	83	4762	0.3929	
14 Chloroethane	64		2.490				ND	
16 Trichlorofluoromethane	101		2.751				ND	
19 1,1-Dichloroethene	96		3.260				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
21 Acetone	58	3.308	3.308	0.000	99	2202	2.21	
24 Carbon disulfide	76		3.474				ND	7
28 Methylene Chloride	84		3.735				ND	
29 2-Methyl-2-propanol	59		3.806				ND	U
31 Methyl tert-butyl ether	73		3.960				ND	
32 trans-1,2-Dichloroethene	96		3.984				ND	
35 Vinyl acetate	43		4.363				ND	
34 1,1-Dichloroethane	63		4.375				ND	
36 Isopropyl ether	87		4.387				ND	
38 Tert-butyl ethyl ether	59		4.707				ND	
40 2-Butanone (MEK)	72		4.849				ND	
41 2,2-Dichloropropane	77		4.873				ND	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	77	20884	1.45	
45 Chlorobromomethane	128		5.075				ND	
47 Chloroform	83		5.158				ND	
48 1,1,1-Trichloroethane	97		5.312				ND	
51 Carbon tetrachloride	117		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.442				ND	
54 Benzene	78		5.620				ND	7
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	97	20320	0.3622	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.051				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.620				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.703				ND	
85 m-Xylene & p-Xylene	106	8.810	8.810	0.000	95	7542	0.2936	
86 o-Xylene	106	9.190	9.190	0.000	92	3610	0.1471	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.545				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.043				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	91	6647	0.1443	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.791				ND	
107 4-Isopropyltoluene	119		10.802				ND	
108 1,4-Dichlorobenzene	146		10.885				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.217				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128	13.139	13.139	0.000	88	5133	0.1479	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.4407	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

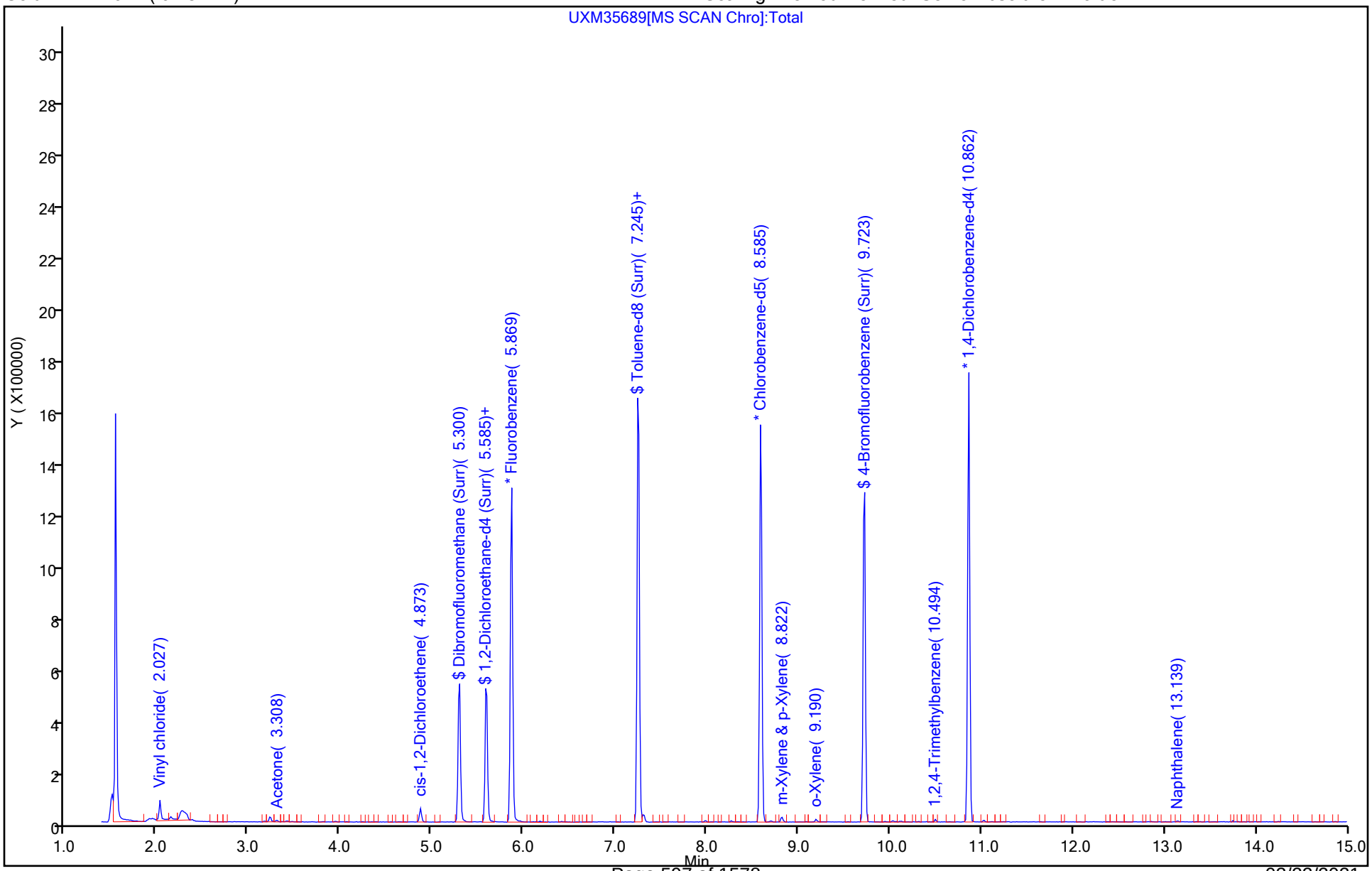
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 17-Mar-2021 08:08:29 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35689.D				
Injection Date:	16-Mar-2021 13:57:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-17	Lab Sample ID:	240-145599-17	Worklist Smp#:	11
Client ID:	MSA-SW42A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35689.D
Lims ID: 240-145599-B-17
Client ID: MSA-SW42A-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 13:57:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-011
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 20:02:51 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 08:08:29

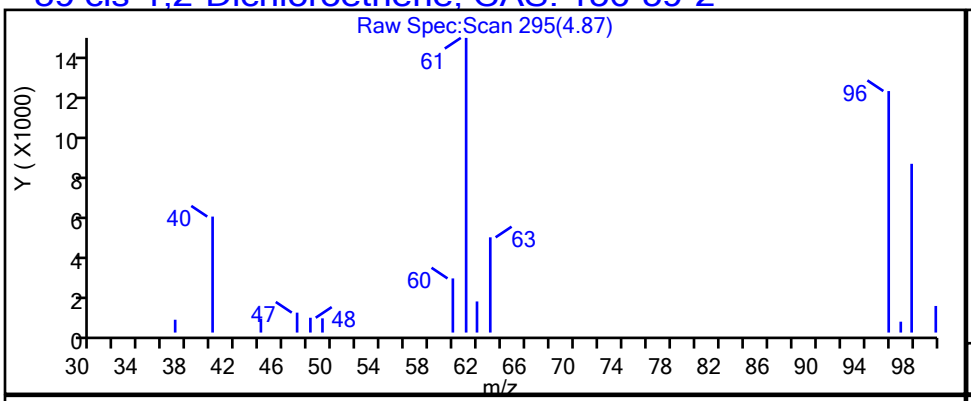
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	25.0	100.21
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.6	102.75
$ 6 Toluene-d8 (Surr)	24.9	23.4	93.88
$ 7 4-Bromofluorobenzene (Surr)	24.9	26.7	107.25

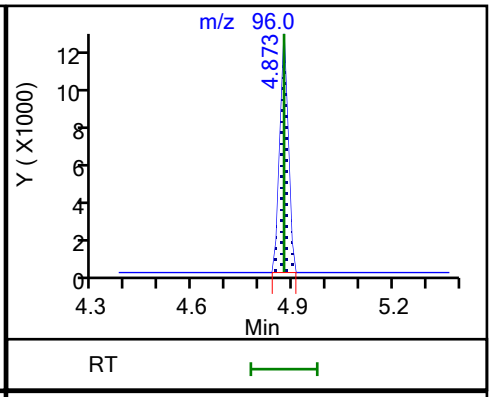
Report Date: 17-Mar-2021 08:08:29 Chrom Revision: 2.3 05-Feb-2021 00:13:28

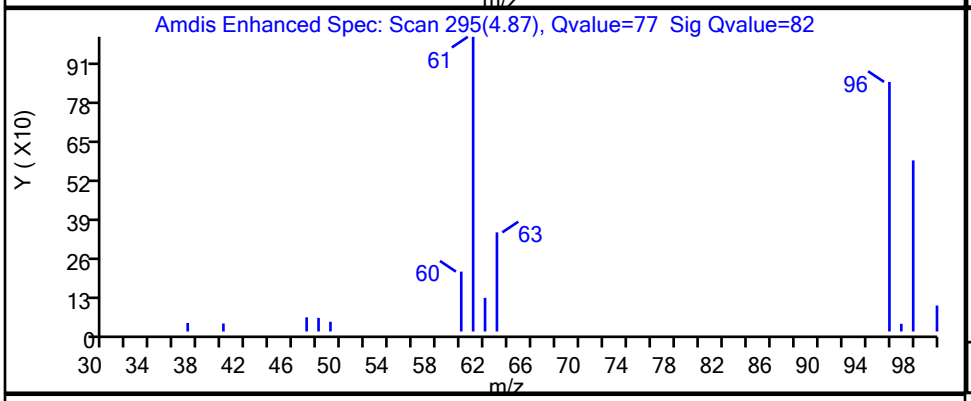
Eurofins TestAmerica, Canton

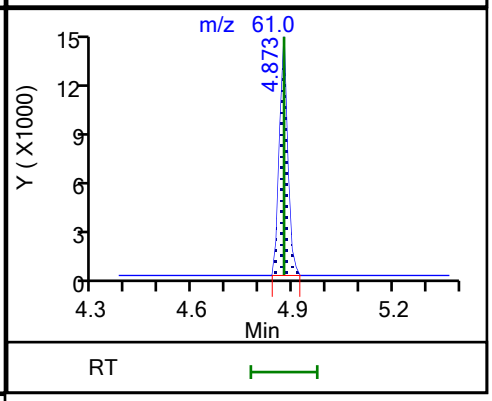
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35689.D				
Injection Date:	16-Mar-2021 13:57:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-17	Lab Sample ID:	240-145599-17		
Client ID:	MSA-SW42A-030821				
Operator ID:	001765	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

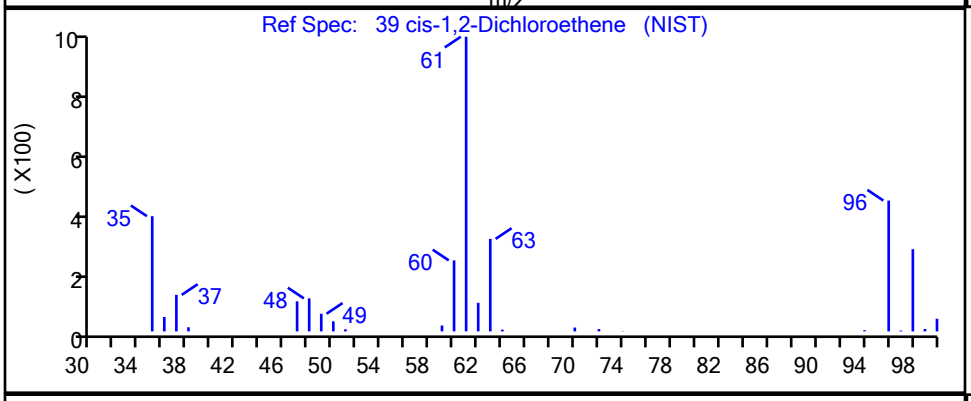
39 cis-1,2-Dichloroethene, CAS: 156-59-2

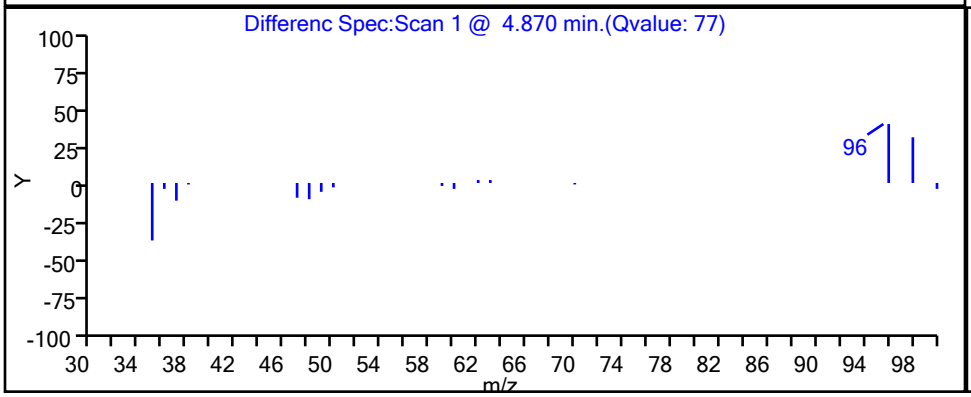


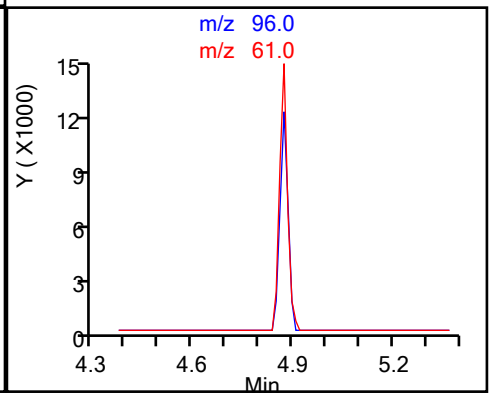












Eurofins TestAmerica, Canton

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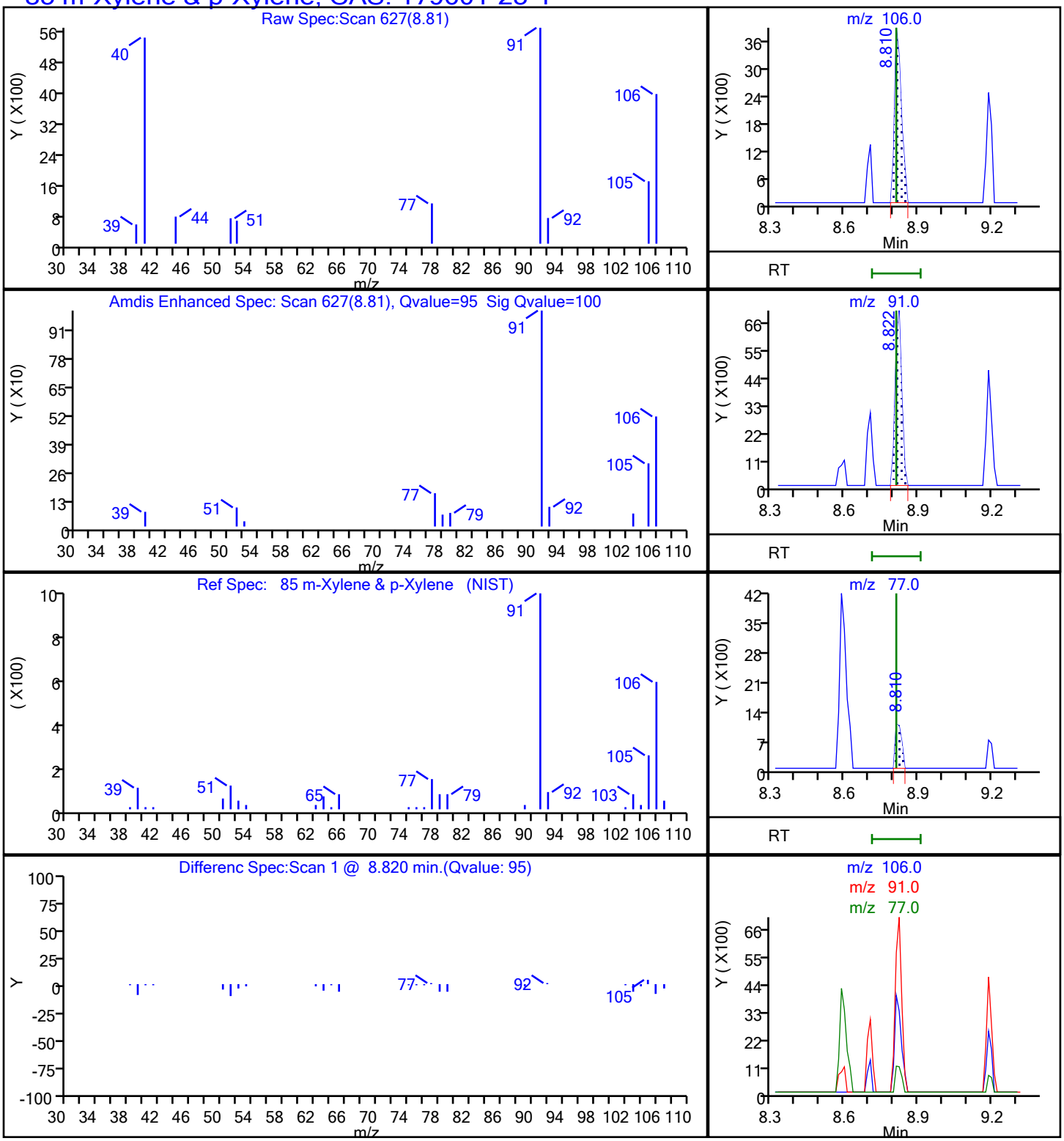
Injection Date:	16-Mar-2021 13:57:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-17	Lab Sample ID:	240-145599-17		
Client ID:	MSA-SW42A-030821				
Operator ID:	001765	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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



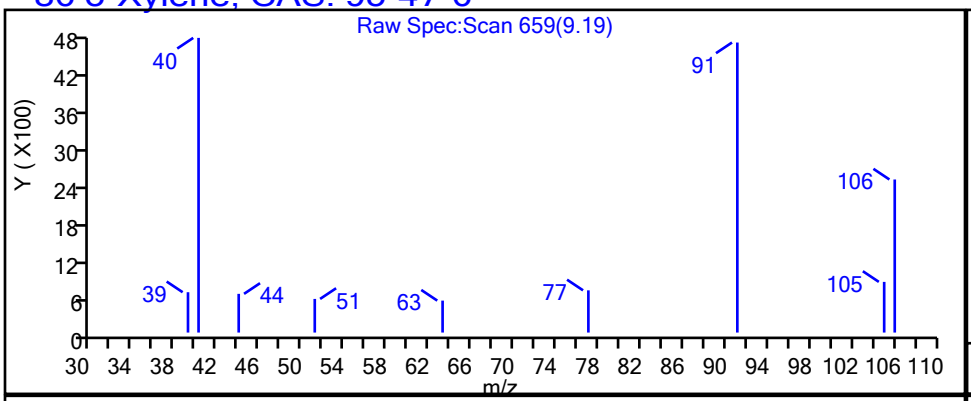
Report Date: 17-Mar-2021 08:08:29 Chrom Revision: 2.3 05-Feb-2021 00:13:28

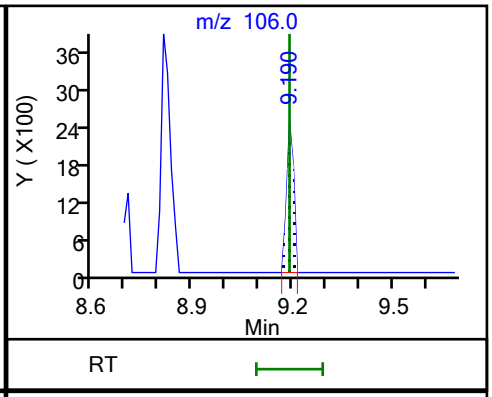
Eurofins TestAmerica, Canton

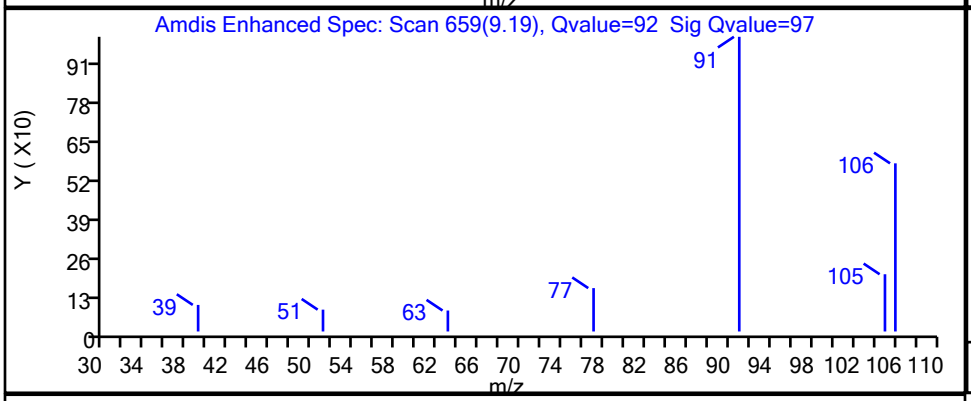
Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35689.D

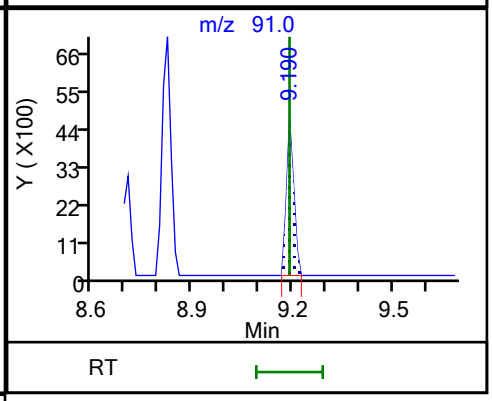
Injection Date:	16-Mar-2021 13:57:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-17	Lab Sample ID:	240-145599-17		
Client ID:	MSA-SW42A-030821				
Operator ID:	001765	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

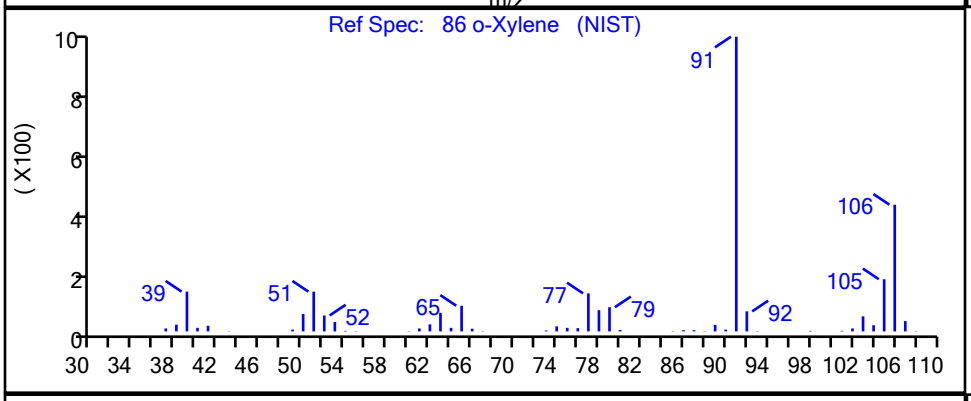
86 o-Xylene, CAS: 95-47-6

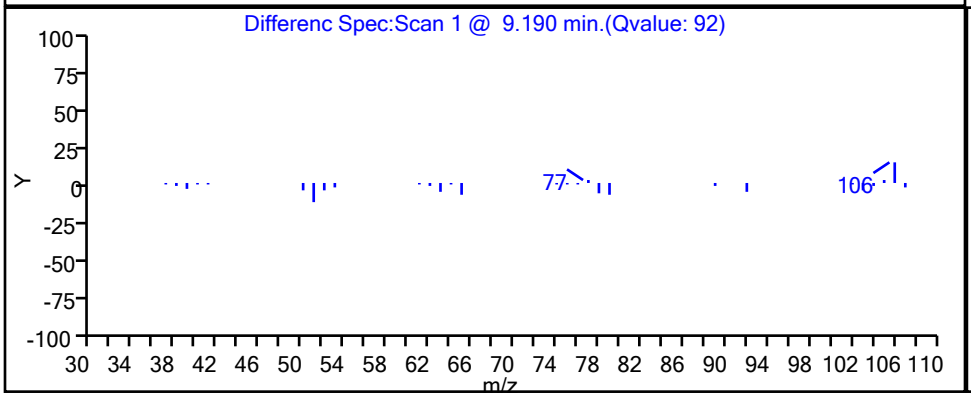


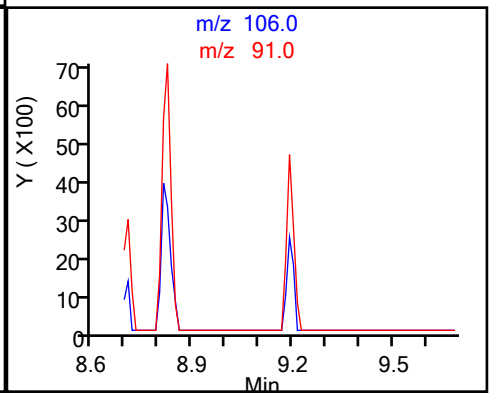








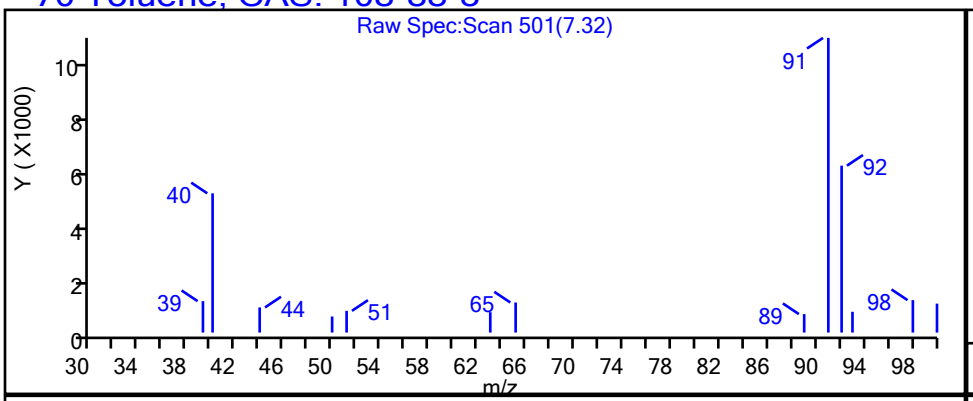


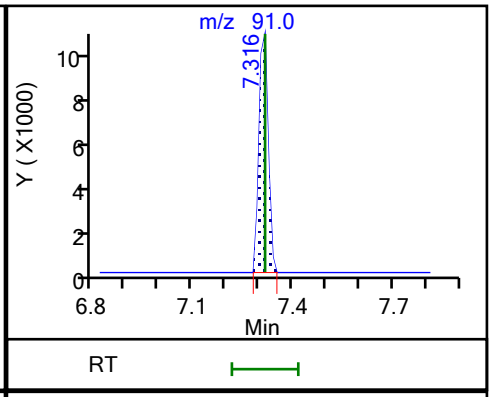


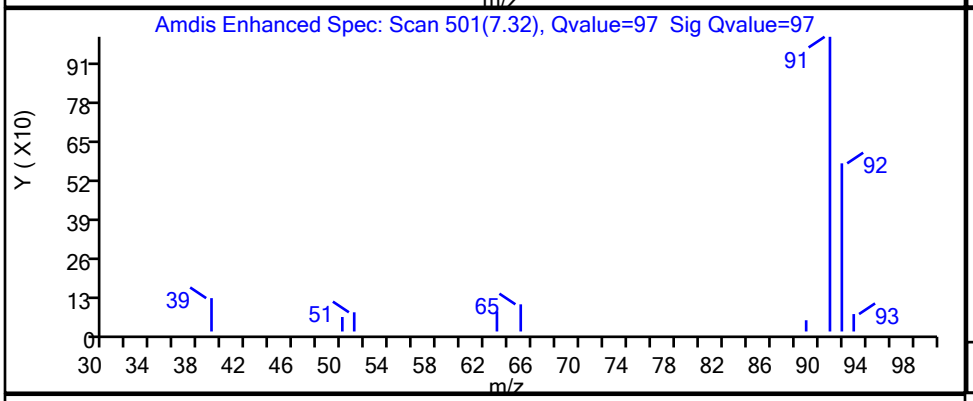
Eurofins TestAmerica, Canton

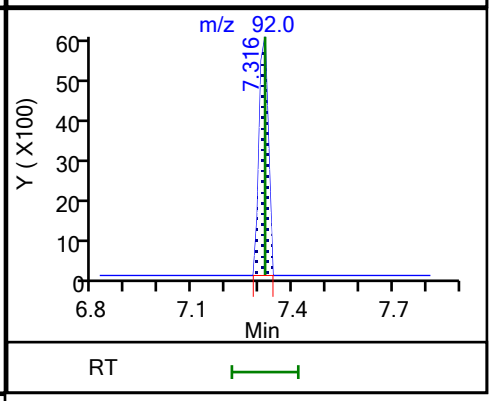
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35689.D				
Injection Date:	16-Mar-2021 13:57:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-17	Lab Sample ID:	240-145599-17		
Client ID:	MSA-SW42A-030821				
Operator ID:	001765	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

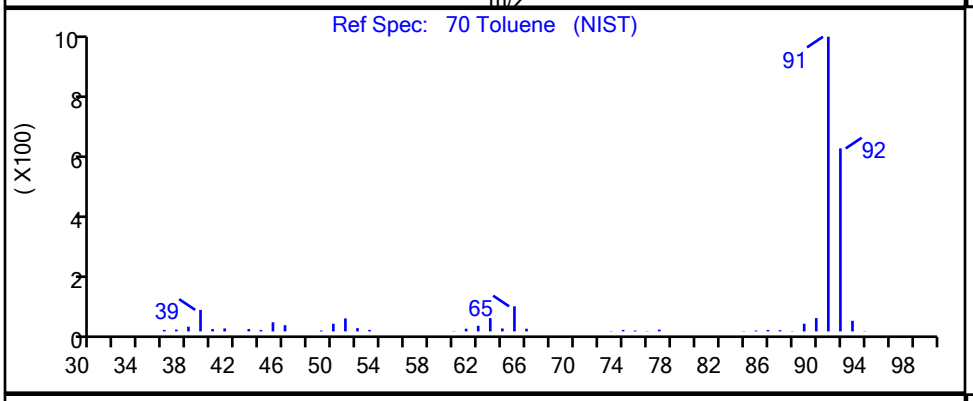
70 Toluene, CAS: 108-88-3

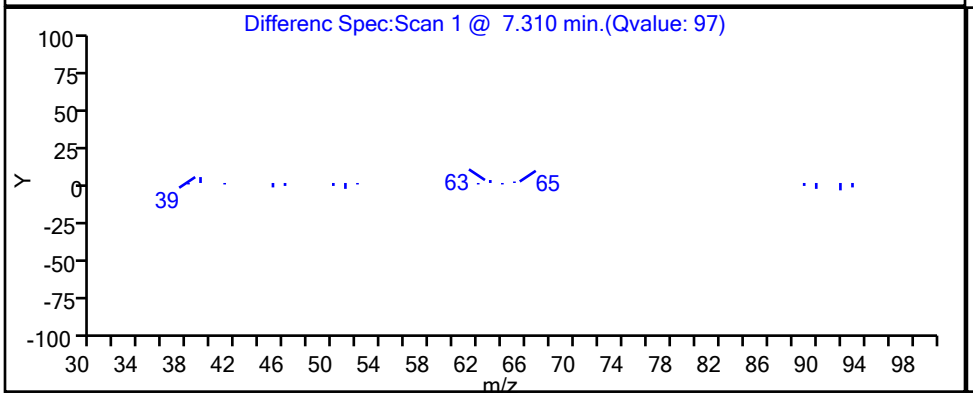


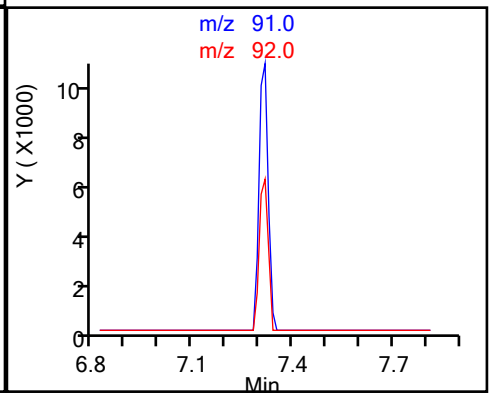








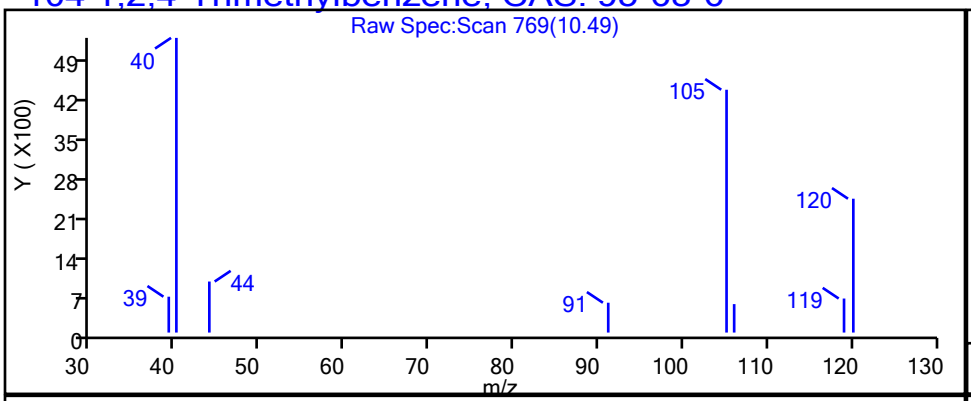


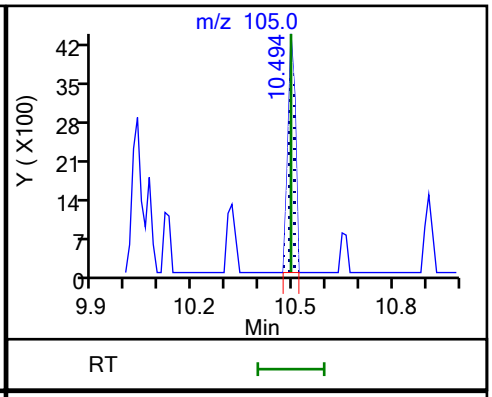


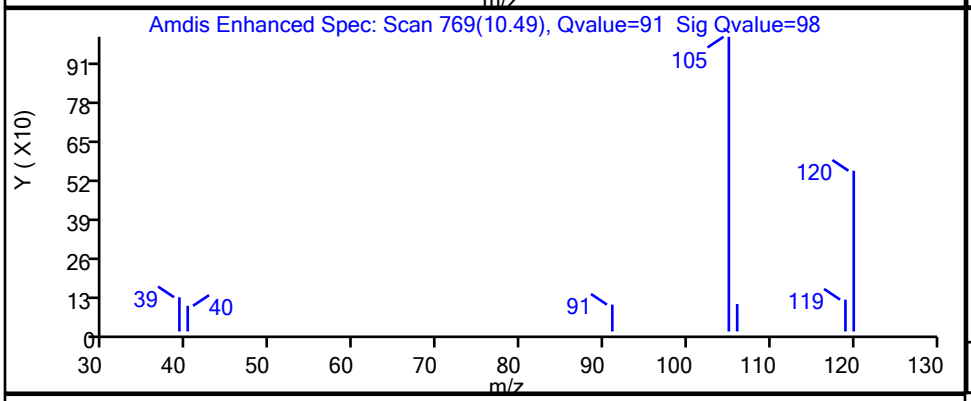
Eurofins TestAmerica, Canton

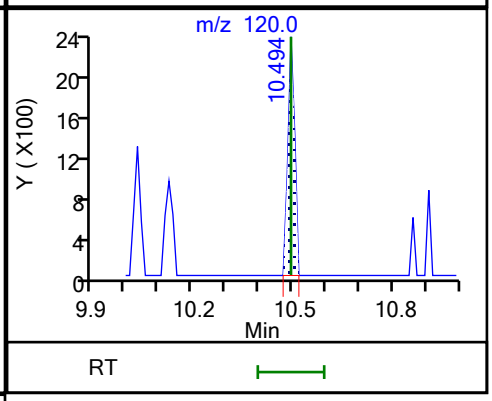
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35689.D				
Injection Date:	16-Mar-2021 13:57:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-17	Lab Sample ID:	240-145599-17		
Client ID:	MSA-SW42A-030821				
Operator ID:	001765	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

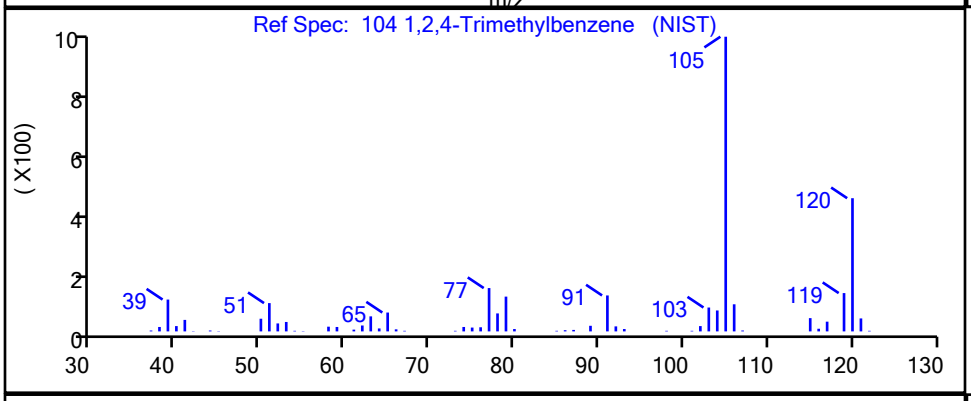
104 1,2,4-Trimethylbenzene, CAS: 95-63-6

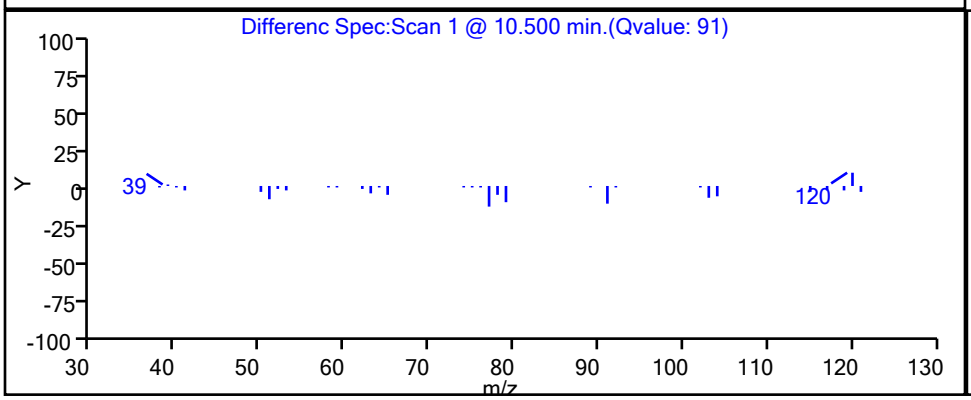


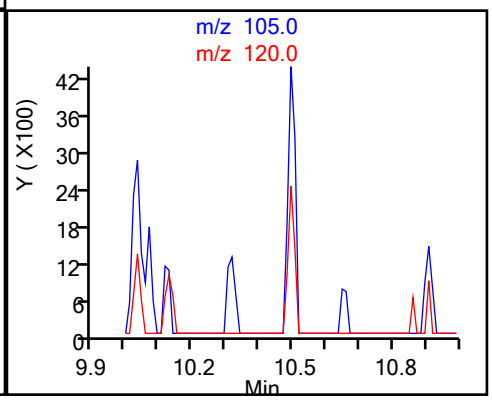












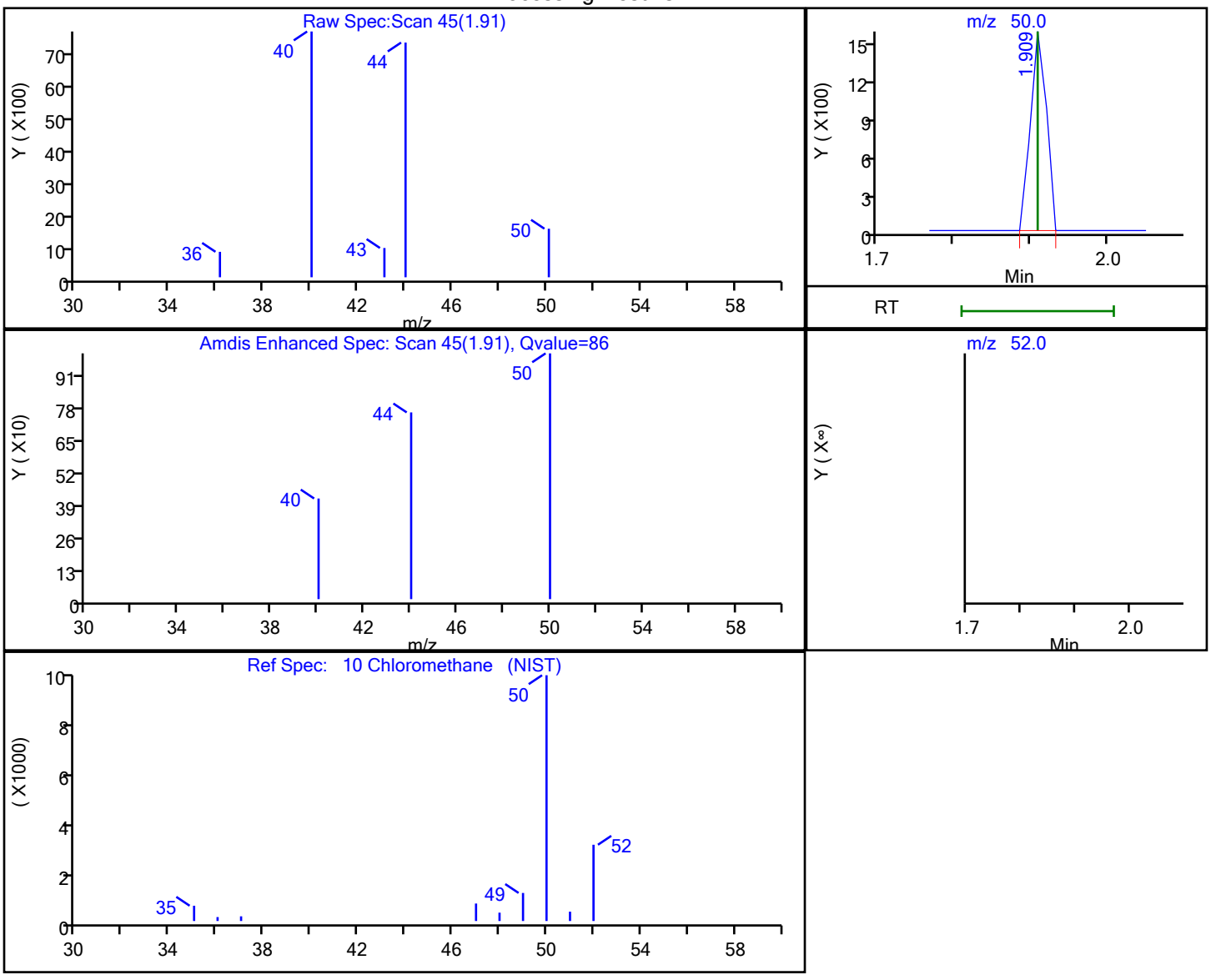
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35689.D				
Injection Date:	16-Mar-2021 13:57:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-17	Lab Sample ID:	240-145599-17		
Client ID:	MSA-SW42A-030821				
Operator ID:	001765	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.91	50.00	2200	0.125051
1.91	52.00	0	

Reviewer: bosworthh, 16-Mar-2021 14:19:01

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

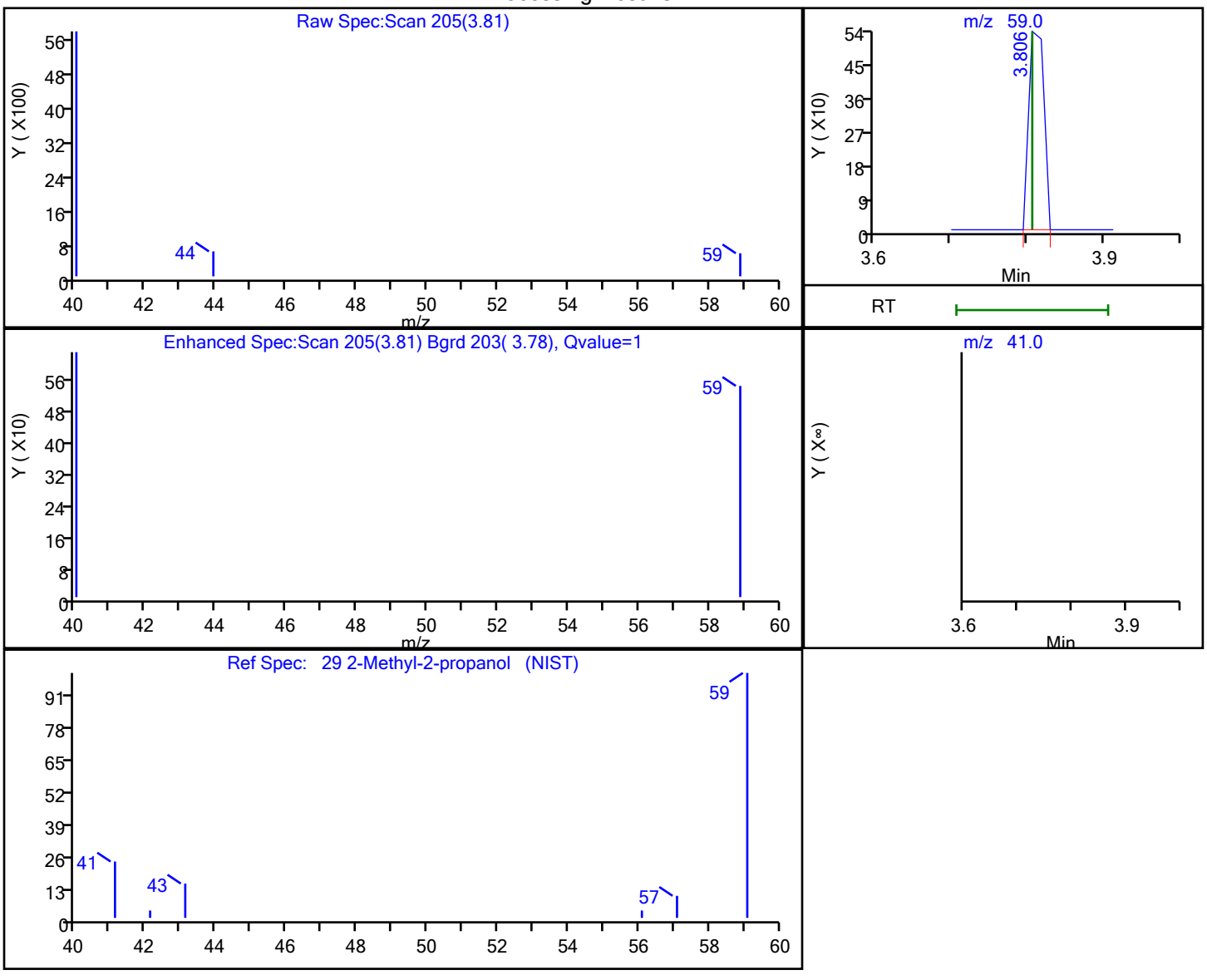
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35689.D				
Injection Date:	16-Mar-2021 13:57:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-17	Lab Sample ID:	240-145599-17		
Client ID:	MSA-SW42A-030821				
Operator ID:	001765	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

29 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results



RT	Mass	Response	Amount
3.81	59.00	751	0.853230
3.81	41.00	0	

Reviewer: bosworthh, 16-Mar-2021 14:19:10

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UX994003.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 12:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.1		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	118		47-134
1868-53-7	Dibromofluoromethane (Surr)	92		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	99		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42A-030821 Lab Sample ID: 240-145599-17

Matrix: Water Lab File ID: UX994003.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:39

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 12:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994003.D
Lims ID: 240-145599-A-17
Client ID: MSA-SW42A-030821
Sample Type: Client
Inject. Date: 17-Mar-2021 12:01:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107352-013
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 17-Mar-2021 15:17:45 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 15:17:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.868	5.866	0.002	99	1452980	20.0	
* 2 Chlorobenzene-d5	117	8.566	8.564	0.002	85	1174507	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.814	10.812	0.002	95	632716	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.274	0.002	94	309408	14.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.572	5.570	0.002	99	380208	14.7	
$ 6 Toluene-d8 (Surr)	98	7.252	7.250	0.002	92	1250125	16.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.678	9.676	0.002	89	521341	19.1	
9 Dichlorodifluoromethane	85		1.772				ND	
10 Chloromethane	50		1.985				ND	
11 Vinyl chloride	62	2.105	2.103	0.002	97	48829	2.08	
13 Bromomethane	94		2.470				ND	
15 Chloroethane	64		2.564				ND	
17 Trichlorofluoromethane	101		2.825				ND	
24 1,1-Dichloroethene	61		3.298				ND	
23 Acetone	58		3.333				ND	
22 112TCTFE	101		3.345				ND	
26 Carbon disulfide	76		3.535				ND	U
30 Methylene Chloride	49		3.736				ND	
31 2-Methyl-2-propanol	59		3.830				ND	
33 Methyl tert-butyl ether	73		3.996				ND	
34 trans-1,2-Dichloroethene	61		3.996				ND	
36 1,1-Dichloroethane	63		4.363				ND	
37 Vinyl acetate	43		4.398				ND	
38 Isopropyl ether	87		4.433				ND	
40 Tert-butyl ethyl ether	59		4.740				ND	
43 cis-1,2-Dichloroethene	96	4.874	4.872	0.002	79	28404	1.16	
41 2-Butanone (MEK)	72		4.872				ND	
42 2,2-Dichloropropane	77		4.884				ND	
47 Chlorobromomethane	49		5.073				ND	
49 Chloroform	83		5.132				ND	
50 1,1,1-Trichloroethane	97		5.321				ND	
52 1,1-Dichloropropene	75		5.452				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.463				ND	
56 1,2-Dichloroethane	62		5.629				ND	
55 Benzene	78		5.641				ND	7
57 Tert-amyl methyl ether	73		5.722				ND	
60 Trichloroethene	130		6.185				ND	7
63 1,2-Dichloropropane	63		6.375				ND	
66 Dibromomethane	174		6.481				ND	
67 Dichlorobromomethane	83		6.599				ND	
69 2-Chloroethyl vinyl ether	63		6.848				ND	
71 cis-1,3-Dichloropropene	75		6.990				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.108				ND	
73 Toluene	91	7.312	7.309	0.003	98	30457	0.3384	
74 trans-1,3-Dichloropropene	75		7.475				ND	
77 1,3-Dichloropropane	76		7.806				ND	
78 Tetrachloroethene	166	7.809	7.806	0.002	82	2421	0.1137	
80 2-Hexanone	43		7.854				ND	U
82 Chlorodibromomethane	129		8.019				ND	
83 Ethylene Dibromide	107		8.138				ND	
85 Chlorobenzene	112		8.599				ND	7
86 1,1,1,2-Tetrachloroethane	131		8.658				ND	
87 Ethylbenzene	106		8.682				ND	7
88 m-Xylene & p-Xylene	106	8.791	8.800	-0.009	97	9859	0.2638	
89 o-Xylene	106	9.181	9.179	0.002	91	4966	0.1293	
90 Styrene	104		9.179				ND	
91 Bromoform	173		9.368				ND	
92 Isopropylbenzene	105		9.522				ND	
94 1,1,2,2-Tetrachloroethane	83		9.794				ND	
95 Bromobenzene	156		9.842				ND	
97 1,2,3-Trichloropropane	110		9.842				ND	
98 N-Propylbenzene	120		9.924				ND	U
100 2-Chlorotoluene	126		10.019				ND	
102 4-Chlorotoluene	126		10.126				ND	
104 tert-Butylbenzene	119		10.421				ND	
106 1,2,4-Trimethylbenzene	105	10.459	10.457	0.002	90	10491	0.1387	
107 sec-Butylbenzene	134		10.634				ND	
108 1,3-Dichlorobenzene	146		10.753				ND	
109 4-Isopropyltoluene	119		10.764				ND	
110 1,4-Dichlorobenzene	146		10.835				ND	
111 1,2,3-Trimethylbenzene	105		10.881				ND	7
113 n-Butylbenzene	91		11.179				ND	
114 1,2-Dichlorobenzene	146		11.214				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.971				ND	
117 1,2,4-Trichlorobenzene	180		12.823				ND	
118 Hexachlorobutadiene	225		13.001				ND	
119 Naphthalene	128		13.084				ND	7
120 1,2,3-Trichlorobenzene	180		13.356				ND	
S 131 Xylenes, Total	106				0		0.3932	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm100ss_stk_00033	Amount Added:	0.81	Units: uL	Run Reagent

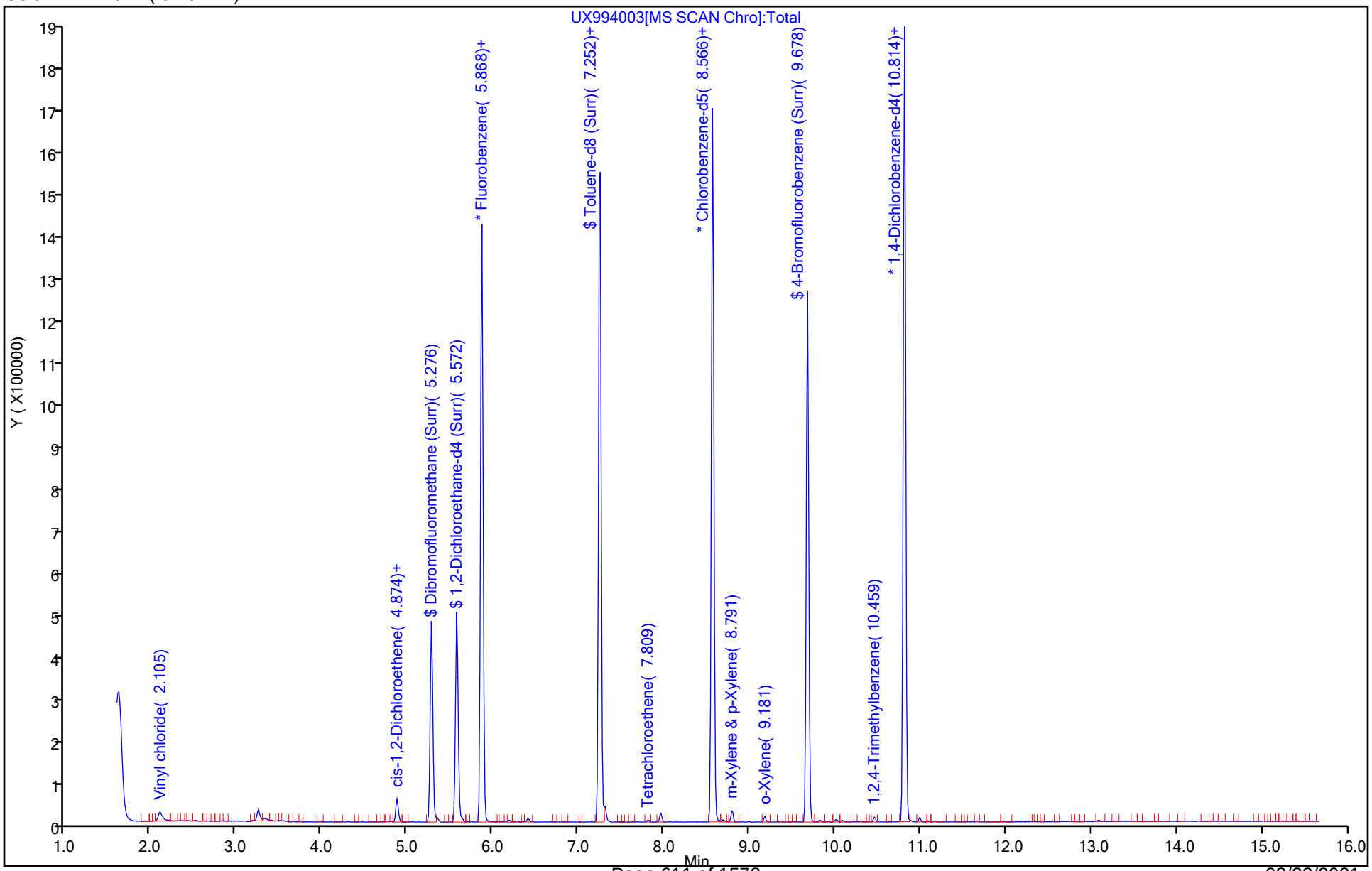
Report Date: 17-Mar-2021 15:17:46 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994003.D

Injection Date:	17-Mar-2021 12:01:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-145599-A-17	Lab Sample ID:	240-145599-17	Worklist Smp#:	13
Client ID:	MSA-SW42A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994003.D
Lims ID: 240-145599-A-17
Client ID: MSA-SW42A-030821
Sample Type: Client
Inject. Date: 17-Mar-2021 12:01:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107352-013
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 17-Mar-2021 15:17:45 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 15:17:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	16.2	14.9	91.93
$ 5 1,2-Dichloroethane-d4 (Surr)	16.2	14.7	90.50
$ 6 Toluene-d8 (Surr)	16.2	16.0	98.65
$ 7 4-Bromofluorobenzene (Surr)	16.2	19.1	117.77

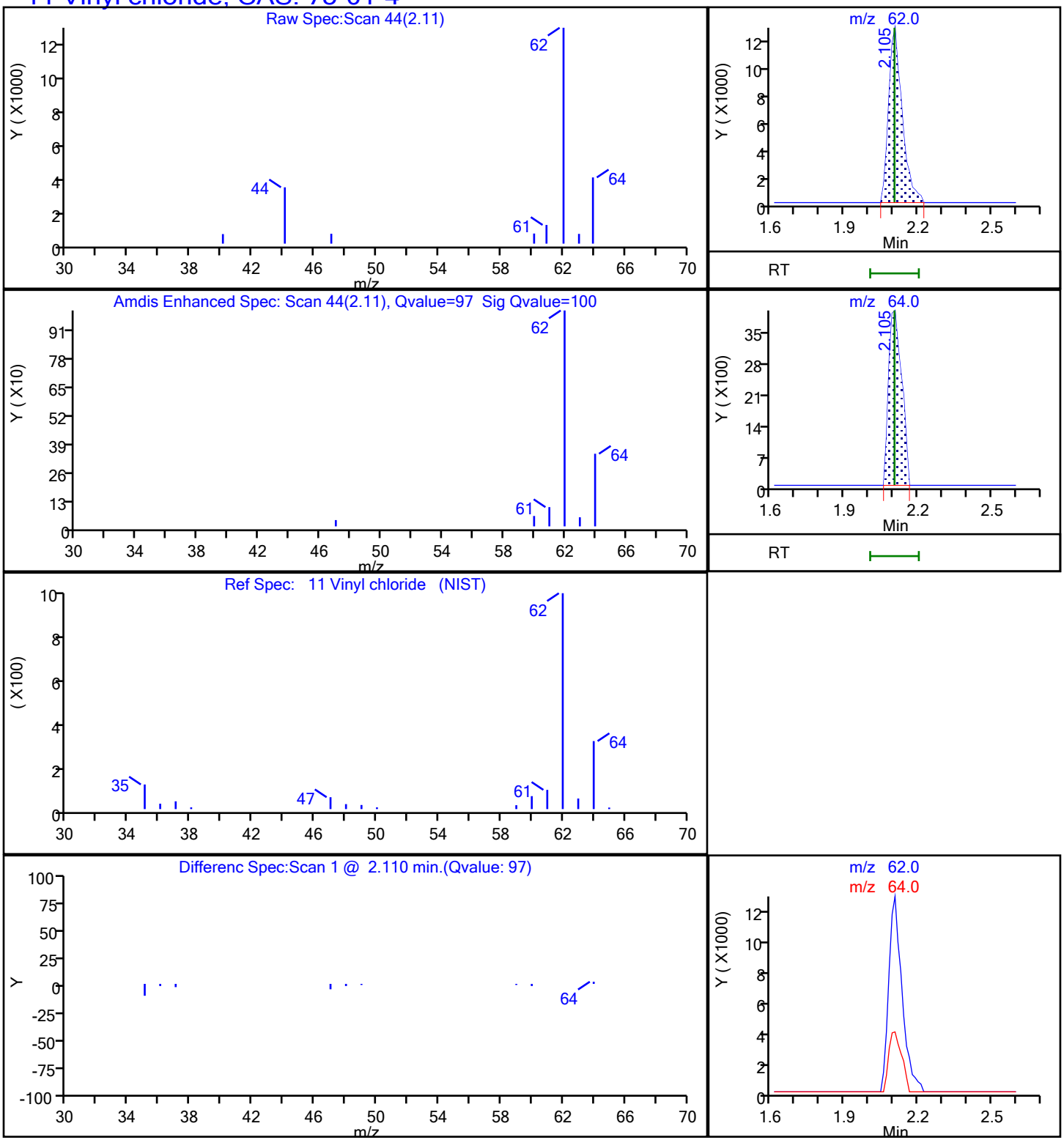
Report Date: 17-Mar-2021 15:17:46 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994003.D

Injection Date:	17-Mar-2021 12:01:30	Instrument ID:	A3UX9		
Lims ID:	240-145599-A-17	Lab Sample ID:	240-145599-17		
Client ID:	MSA-SW42A-030821				
Operator ID:	001765	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UXM35690.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.55	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UXM35690.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.41	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.16	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.44	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.19	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
1330-20-7	Xylenes, Total	0.57	J	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UXM35690.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	99		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		75-130
2037-26-5	Toluene-d8 (Surr)	94		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UXM35690.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UXM35690.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35690.D
Lims ID: 240-145599-B-18
Client ID: MSA-SW42B-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 14:21:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-012
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 20:02:51 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 08:04:37

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	1094195	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	87	879495	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	470607	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	294775	24.7	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	328043	25.4	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	93	1106360	23.4	
$	7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	93	459376	26.9	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	97	26316	1.42	
	13 Bromomethane	94	2.383	2.383	0.000	79	3279	0.2758	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.260				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.308	0.000	98	2323	2.38	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.849				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	76	7774	0.5490	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	51 Carbon tetrachloride	117		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	98	24163	0.4382	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.051				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.620				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.703				ND	7
85 m-Xylene & p-Xylene	106	8.822	8.810	0.012	97	10469	0.4146	
86 o-Xylene	106	9.190	9.190	0.000	95	3886	0.1611	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.545				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.043				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	7
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	93	8944	0.1910	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.791				ND	
107 4-Isopropyltoluene	119		10.802				ND	
108 1,4-Dichlorobenzene	146		10.885				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	7
111 n-Butylbenzene	91		11.217				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.5757	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

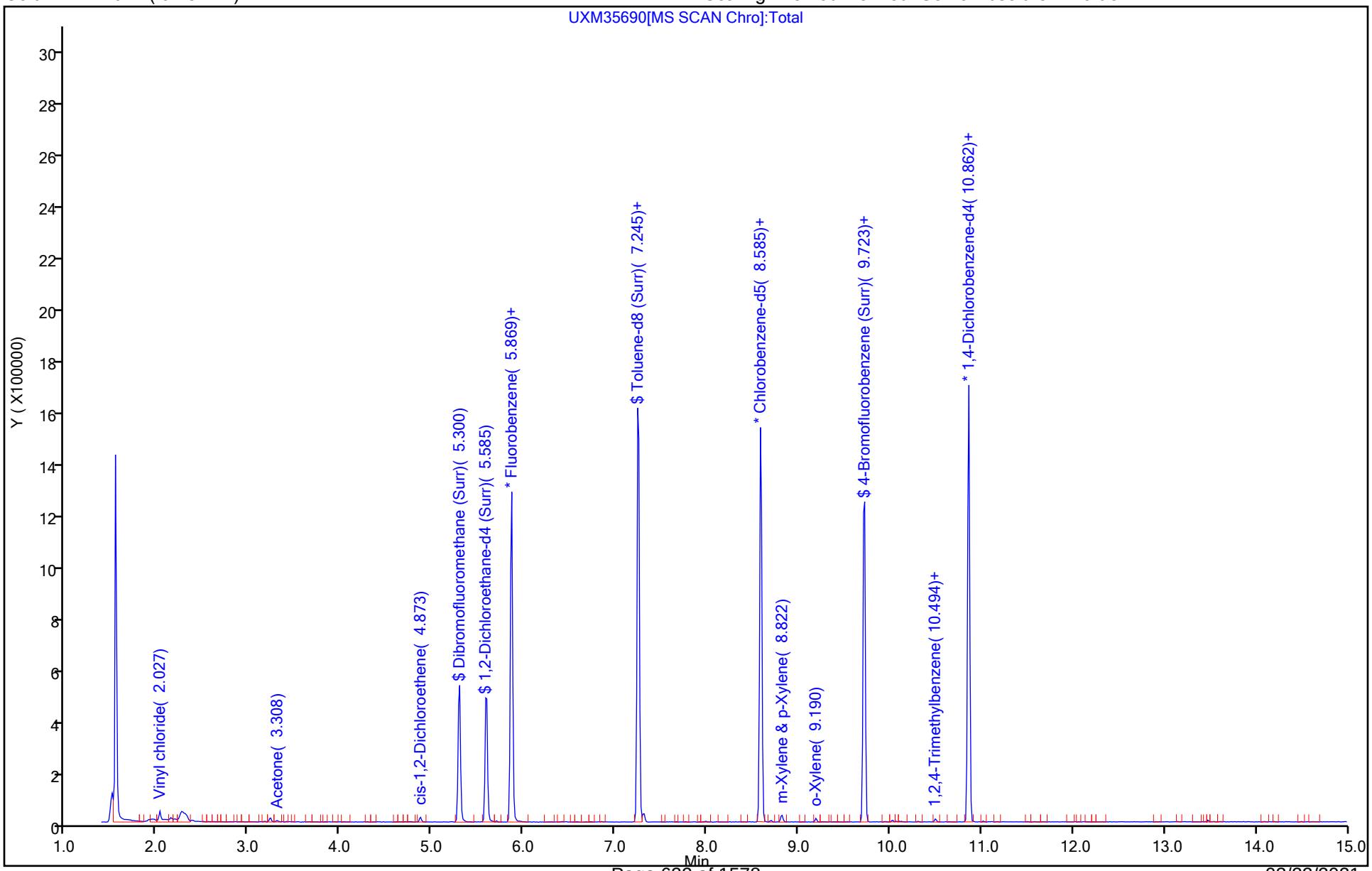
Report Date: 17-Mar-2021 08:08:43 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35690.D

Injection Date:	16-Mar-2021 14:21:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-18	Lab Sample ID:	240-145599-18	Worklist Smp#:	12
Client ID:	MSA-SW42B-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35690.D				
Lims ID:	240-145599-B-18				
Client ID:	MSA-SW42B-030821				
Sample Type:	Client				
Inject. Date:	16-Mar-2021 14:21:30	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107315-012				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	16-Mar-2021 20:02:51	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1658				

First Level Reviewer: bosworthh Date: 17-Mar-2021 08:04:37

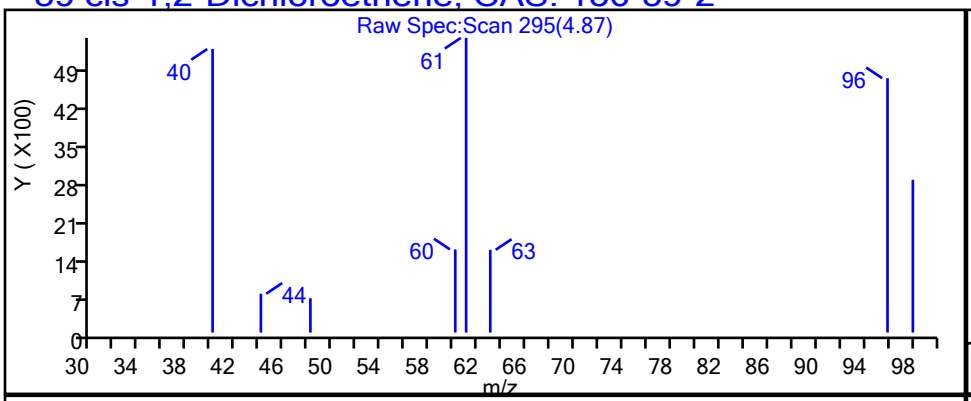
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	24.7	99.18
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.4	101.97
$ 6 Toluene-d8 (Surr)	24.9	23.4	93.89
$ 7 4-Bromofluorobenzene (Surr)	24.9	26.9	108.00

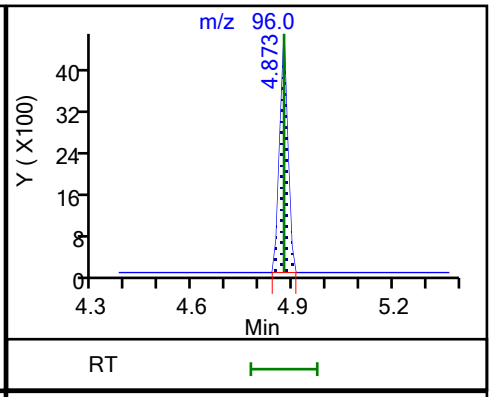
Eurofins TestAmerica, Canton

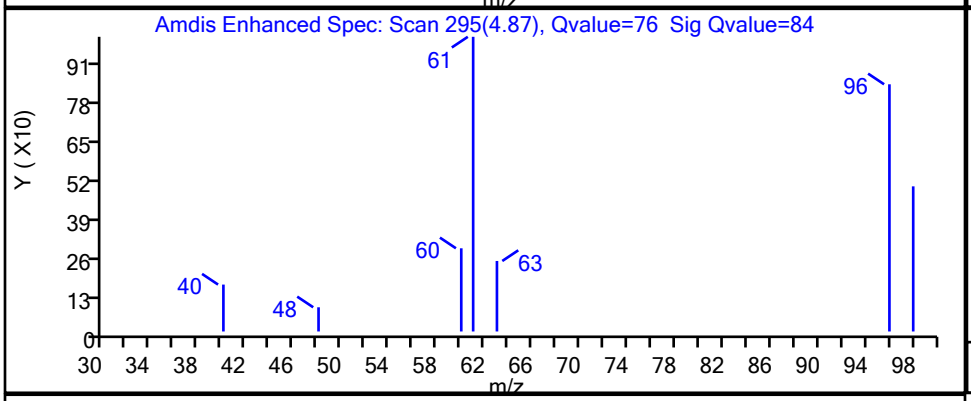
Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35690.D

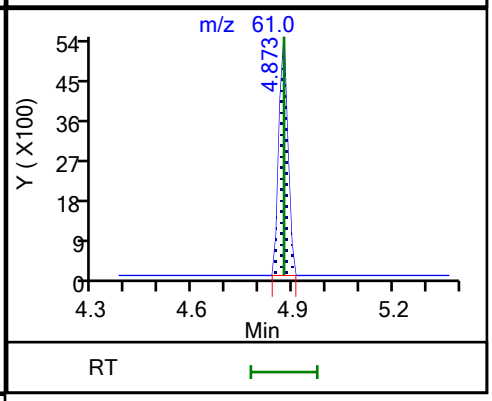
Injection Date:	16-Mar-2021 14:21:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-18	Lab Sample ID:	240-145599-18		
Client ID:	MSA-SW42B-030821				
Operator ID:	001765	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

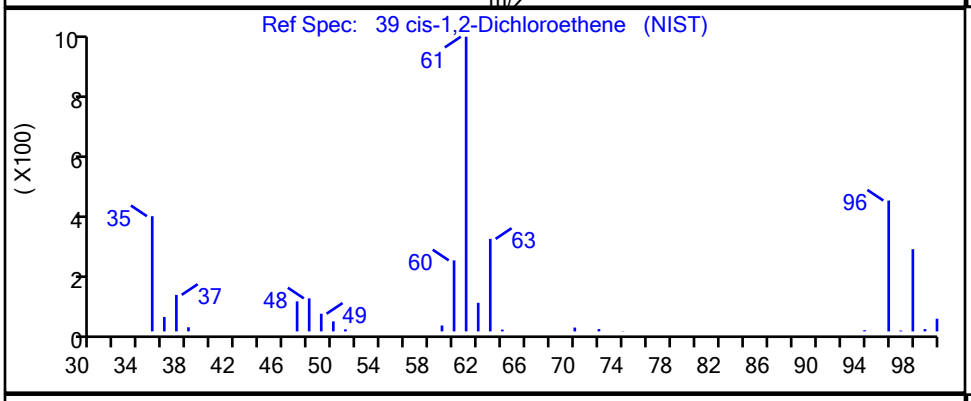
39 cis-1,2-Dichloroethene, CAS: 156-59-2

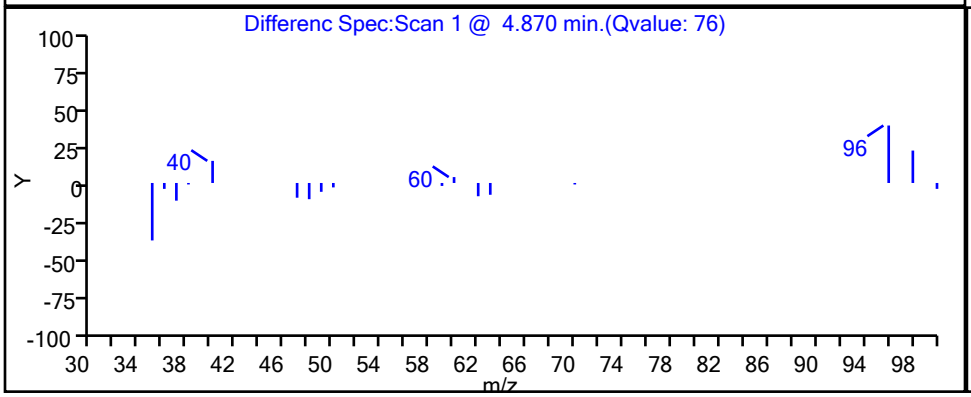


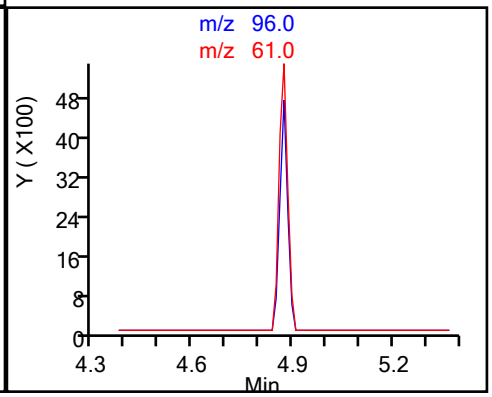








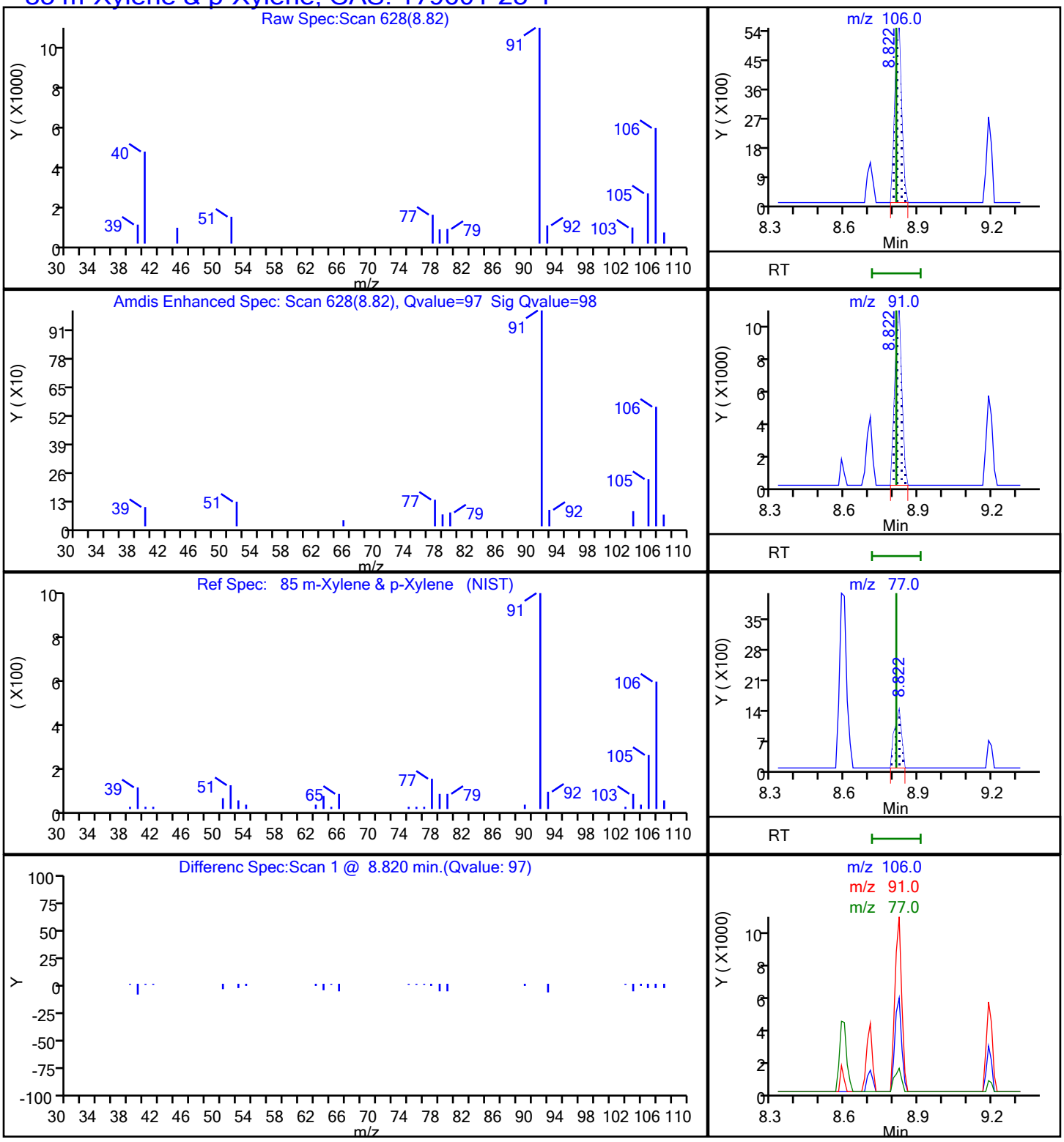




Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35690.D				
Injection Date:	16-Mar-2021 14:21:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-18	Lab Sample ID:	240-145599-18		
Client ID:	MSA-SW42B-030821				
Operator ID:	001765	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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

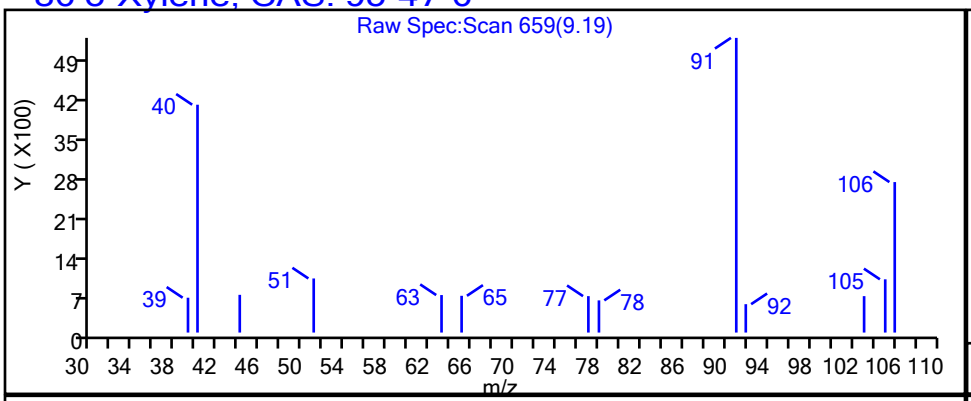


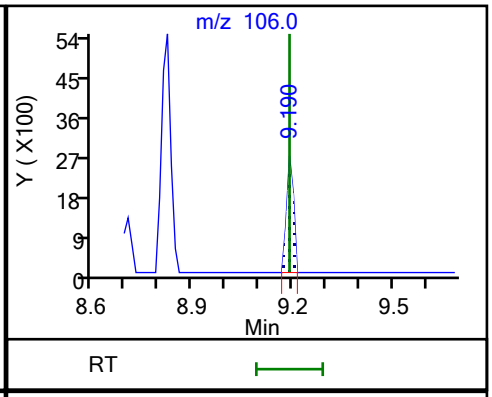
Report Date: 17-Mar-2021 08:08:43 Chrom Revision: 2.3 05-Feb-2021 00:13:28

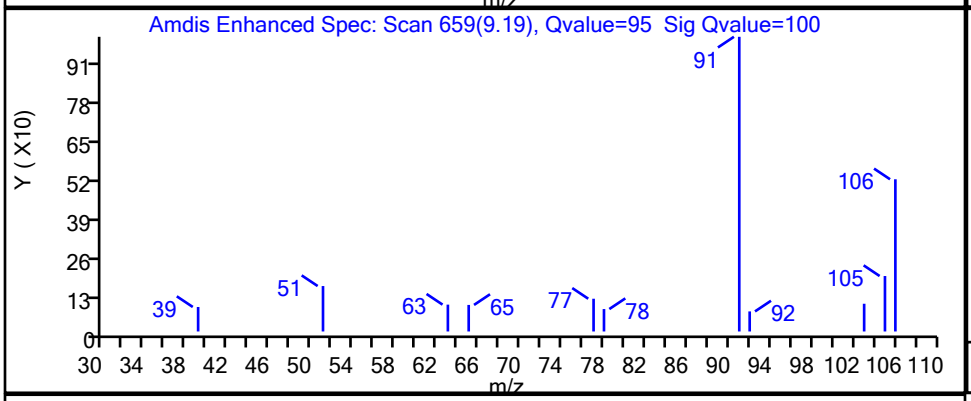
Eurofins TestAmerica, Canton

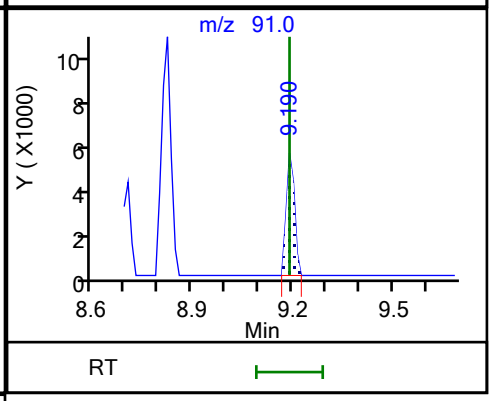
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35690.D				
Injection Date:	16-Mar-2021 14:21:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-18	Lab Sample ID:	240-145599-18		
Client ID:	MSA-SW42B-030821				
Operator ID:	001765	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

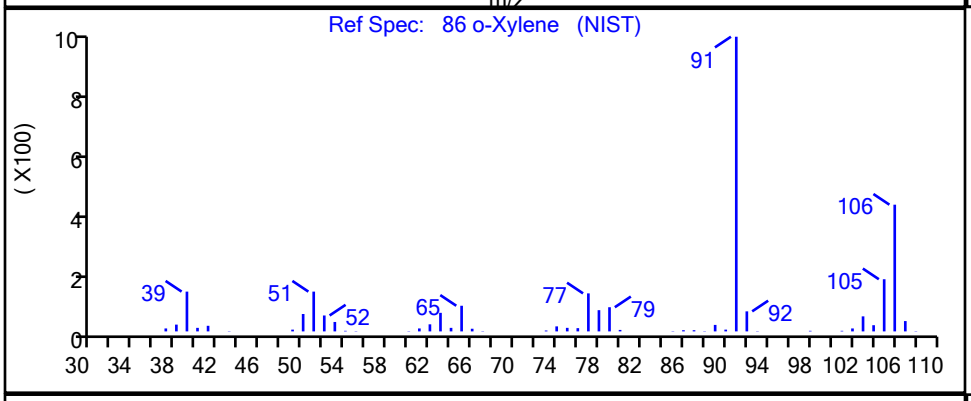
86 o-Xylene, CAS: 95-47-6

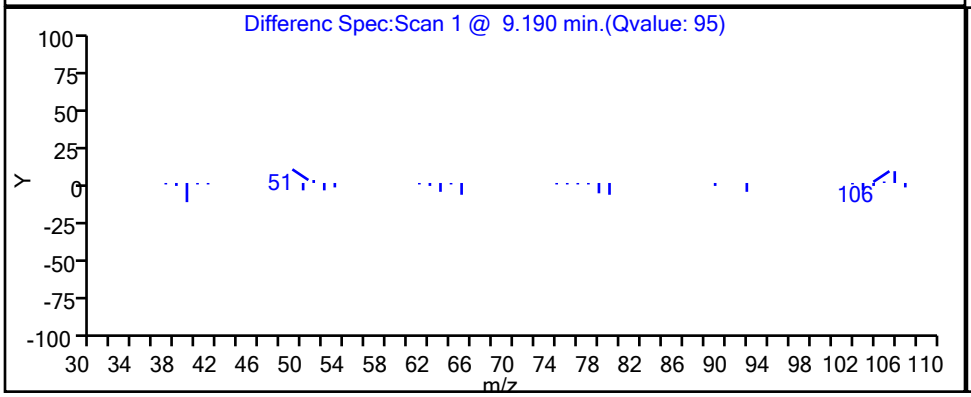


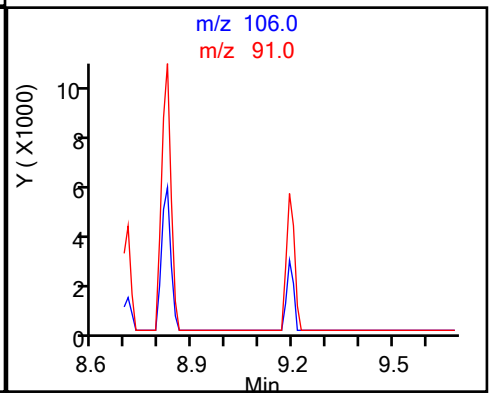










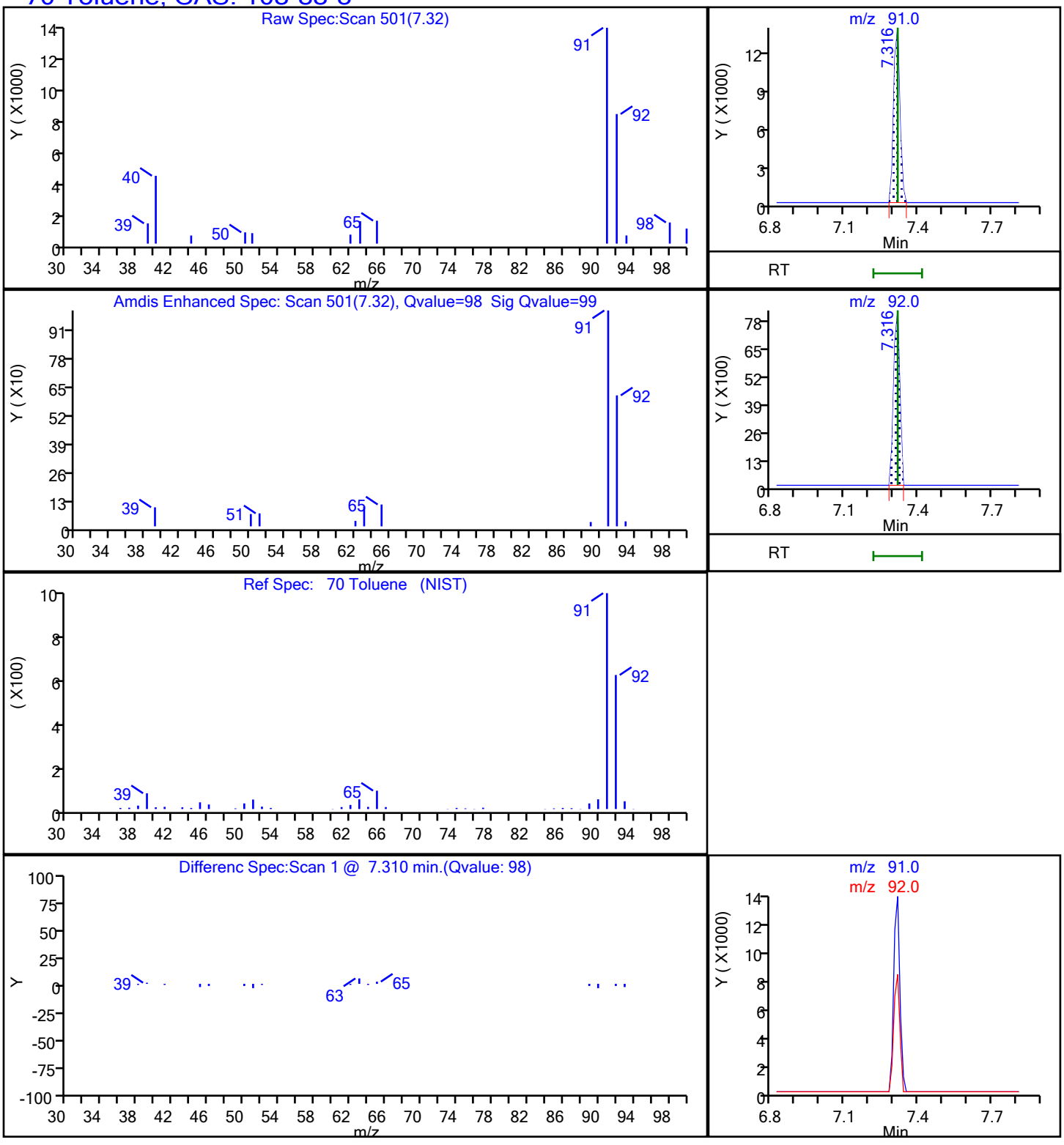


Report Date: 17-Mar-2021 08:08:43 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35690.D				
Injection Date:	16-Mar-2021 14:21:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-18	Lab Sample ID:	240-145599-18		
Client ID:	MSA-SW42B-030821				
Operator ID:	001765	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

70 Toluene, CAS: 108-88-3

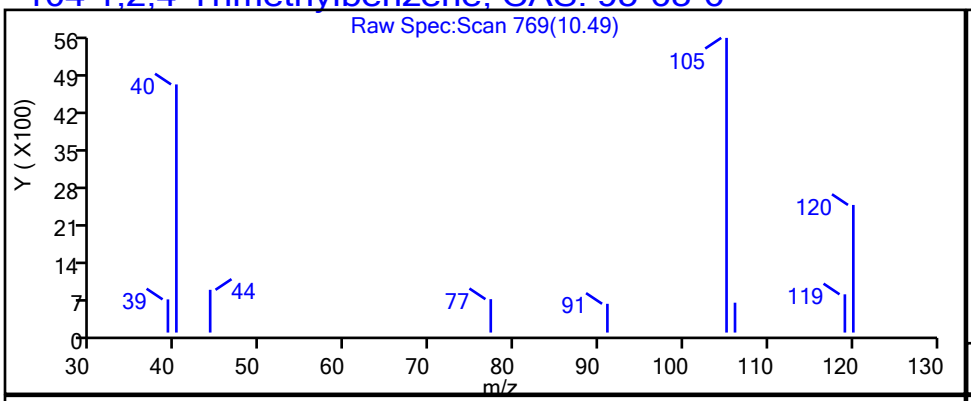


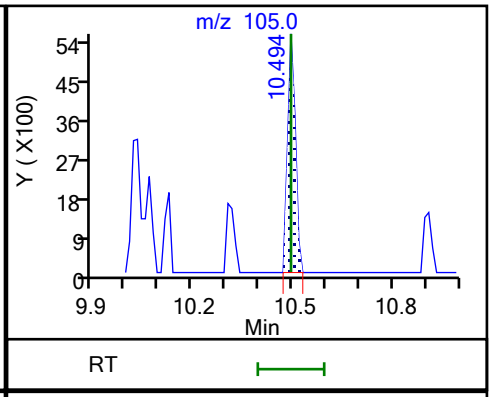
Report Date: 17-Mar-2021 08:08:43 Chrom Revision: 2.3 05-Feb-2021 00:13:28

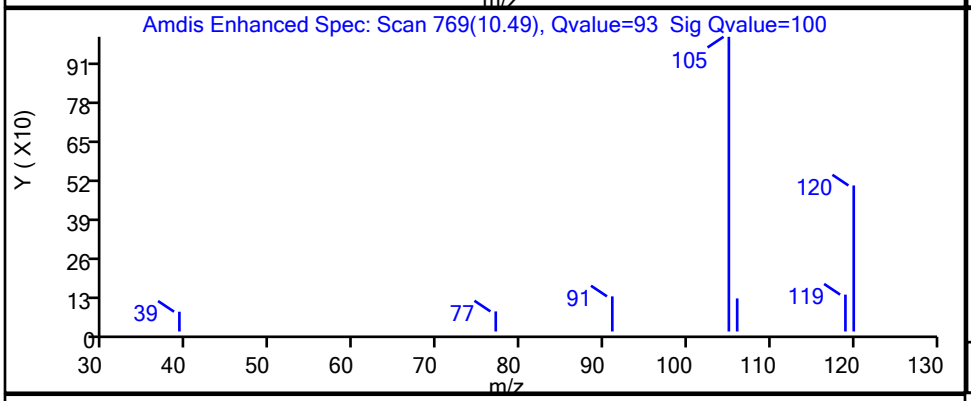
Eurofins TestAmerica, Canton

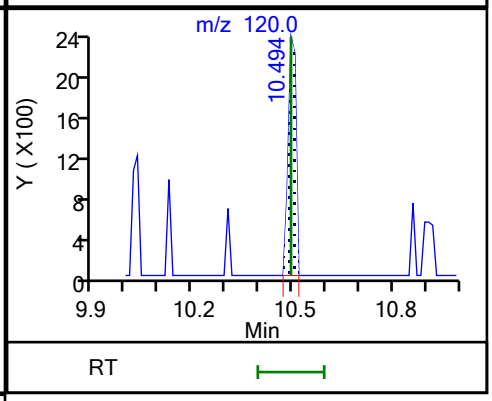
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35690.D				
Injection Date:	16-Mar-2021 14:21:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-18	Lab Sample ID:	240-145599-18		
Client ID:	MSA-SW42B-030821				
Operator ID:	001765	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

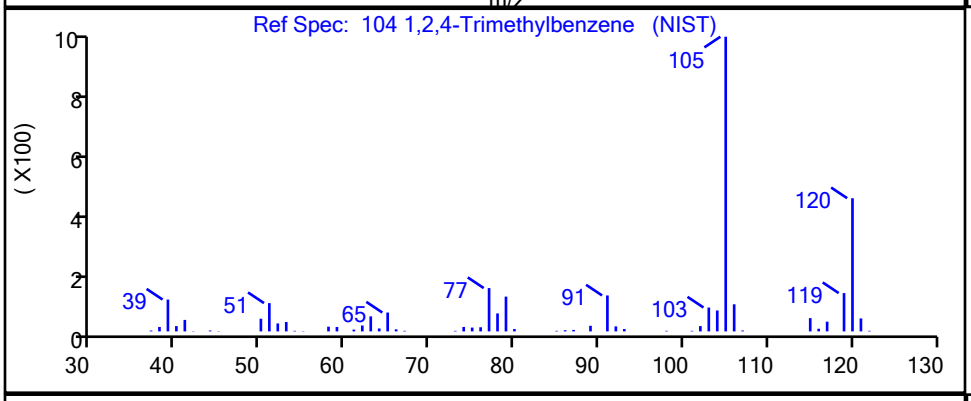
104 1,2,4-Trimethylbenzene, CAS: 95-63-6

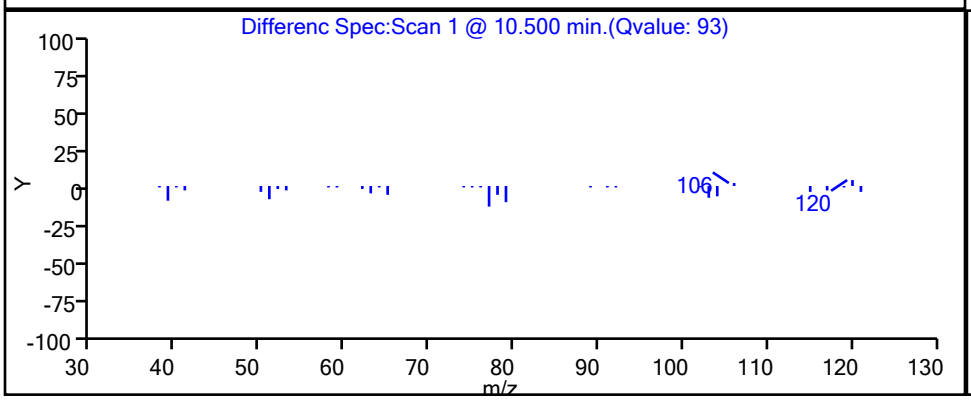


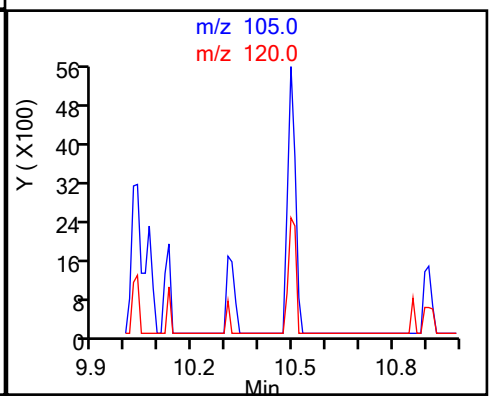












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UX994004.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 12:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.88	J	1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	120		47-134
1868-53-7	Dibromofluoromethane (Surr)	93		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42B-030821 Lab Sample ID: 240-145599-18

Matrix: Water Lab File ID: UX994004.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:42

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 12:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994004.D
Lims ID: 240-145599-A-18
Client ID: MSA-SW42B-030821
Sample Type: Client
Inject. Date: 17-Mar-2021 12:23:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107352-014
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 17-Mar-2021 15:17:45 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 15:18:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.868	5.866	0.002	99	1399744	20.0	
* 2 Chlorobenzene-d5	117	8.566	8.564	0.002	85	1135366	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.814	10.812	0.002	95	616753	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.274	0.002	93	302489	15.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.572	5.570	0.002	100	380827	15.3	
$ 6 Toluene-d8 (Surr)	98	7.252	7.250	0.002	93	1231804	16.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.678	9.676	0.002	90	511838	19.4	
9 Dichlorodifluoromethane	85		1.772				ND	
10 Chloromethane	50		1.985				ND	
11 Vinyl chloride	62	2.105	2.103	0.002	93	19871	0.8778	
13 Bromomethane	94		2.470				ND	
15 Chloroethane	64		2.564				ND	
17 Trichlorofluoromethane	101		2.825				ND	
24 1,1-Dichloroethene	61		3.298				ND	
23 Acetone	58		3.333				ND	
22 112TCTFE	101		3.345				ND	
26 Carbon disulfide	76		3.535				ND	7
30 Methylene Chloride	49		3.736				ND	
31 2-Methyl-2-propanol	59		3.830				ND	
33 Methyl tert-butyl ether	73		3.996				ND	
34 trans-1,2-Dichloroethene	61		3.996				ND	
36 1,1-Dichloroethane	63		4.363				ND	
37 Vinyl acetate	43		4.398				ND	
38 Isopropyl ether	87		4.433				ND	
40 Tert-butyl ethyl ether	59		4.740				ND	
43 cis-1,2-Dichloroethene	96	4.874	4.872	0.002	79	10096	0.4291	
41 2-Butanone (MEK)	72		4.872				ND	
42 2,2-Dichloropropane	77		4.884				ND	
47 Chlorobromomethane	49		5.073				ND	
49 Chloroform	83		5.132				ND	
50 1,1,1-Trichloroethane	97		5.321				ND	
52 1,1-Dichloropropene	75		5.452				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.463				ND	
56 1,2-Dichloroethane	62		5.629				ND	
55 Benzene	78		5.641				ND	7
57 Tert-amyl methyl ether	73		5.722				ND	
60 Trichloroethene	130		6.185				ND	
63 1,2-Dichloropropane	63		6.375				ND	
66 Dibromomethane	174		6.481				ND	
67 Dichlorobromomethane	83		6.599				ND	
69 2-Chloroethyl vinyl ether	63		6.848				ND	
71 cis-1,3-Dichloropropene	75		6.990				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.108				ND	
73 Toluene	91	7.311	7.309	0.002	96	36600	0.4206	
74 trans-1,3-Dichloropropene	75		7.475				ND	
77 1,3-Dichloropropane	76		7.806				ND	
78 Tetrachloroethene	166		7.806				ND	
80 2-Hexanone	43		7.854				ND	
82 Chlorodibromomethane	129		8.019				ND	
83 Ethylene Dibromide	107		8.138				ND	
85 Chlorobenzene	112		8.599				ND	
86 1,1,1,2-Tetrachloroethane	131		8.658				ND	
87 Ethylbenzene	106		8.682				ND	7
88 m-Xylene & p-Xylene	106	8.790	8.800	-0.010	97	12048	0.3335	
89 o-Xylene	106	9.181	9.179	0.002	91	6522	0.1757	
90 Styrene	104		9.179				ND	
91 Bromoform	173		9.368				ND	
92 Isopropylbenzene	105		9.522				ND	
94 1,1,2,2-Tetrachloroethane	83		9.794				ND	
95 Bromobenzene	156		9.842				ND	
97 1,2,3-Trichloropropane	110		9.842				ND	
98 N-Propylbenzene	120	10.009	9.924	0.085	45	3320	0.1440	
100 2-Chlorotoluene	126		10.019				ND	
102 4-Chlorotoluene	126		10.126				ND	
104 tert-Butylbenzene	119		10.421				ND	7
106 1,2,4-Trimethylbenzene	105	10.459	10.457	0.002	93	14852	0.2014	
107 sec-Butylbenzene	134		10.634				ND	
108 1,3-Dichlorobenzene	146		10.753				ND	
109 4-Isopropyltoluene	119		10.764				ND	
110 1,4-Dichlorobenzene	146		10.835				ND	
111 1,2,3-Trimethylbenzene	105		10.881				ND	7
113 n-Butylbenzene	91		11.179				ND	
114 1,2-Dichlorobenzene	146		11.214				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.971				ND	
117 1,2,4-Trichlorobenzene	180		12.823				ND	
118 Hexachlorobutadiene	225		13.001				ND	
119 Naphthalene	128		13.084				ND	7
120 1,2,3-Trichlorobenzene	180		13.356				ND	
S 131 Xylenes, Total	106				0		0.5092	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm100ss_stk_00033	Amount Added:	0.81	Units: uL	Run Reagent

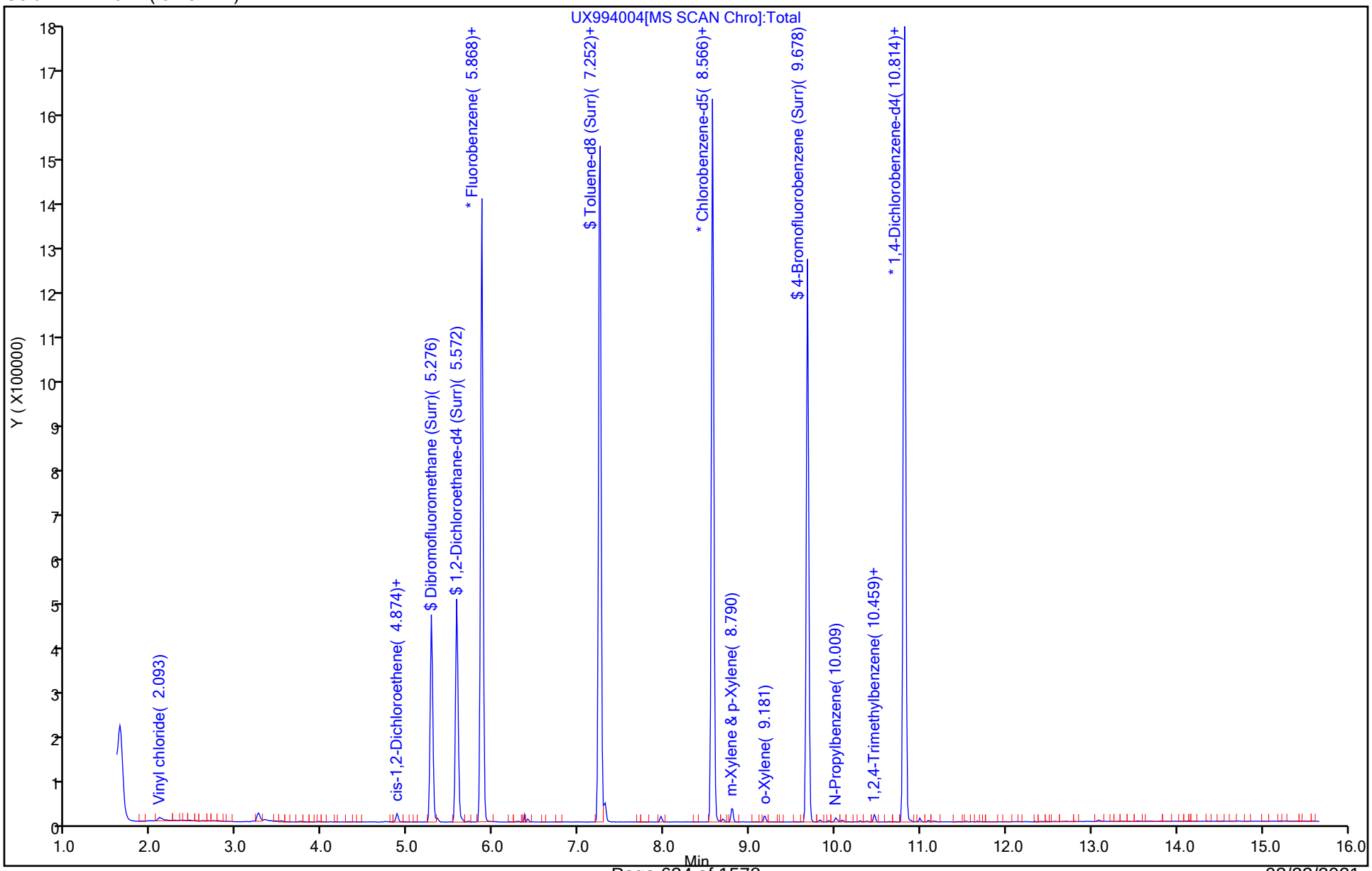
Report Date: 17-Mar-2021 15:18:26 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994004.D

Injection Date:	17-Mar-2021 12:23:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-145599-A-18	Lab Sample ID:	240-145599-18	Worklist Smp#:	14
Client ID:	MSA-SW42B-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994004.D				
Lims ID:	240-145599-A-18				
Client ID:	MSA-SW42B-030821				
Sample Type:	Client				
Inject. Date:	17-Mar-2021 12:23:30	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107352-014				
Operator ID:	001765	Instrument ID:	A3UX9		
Method:	\\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	17-Mar-2021 15:17:45	Calib Date:	07-Jan-2021 18:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1658				

First Level Reviewer: bosworthh Date: 17-Mar-2021 15:18:26

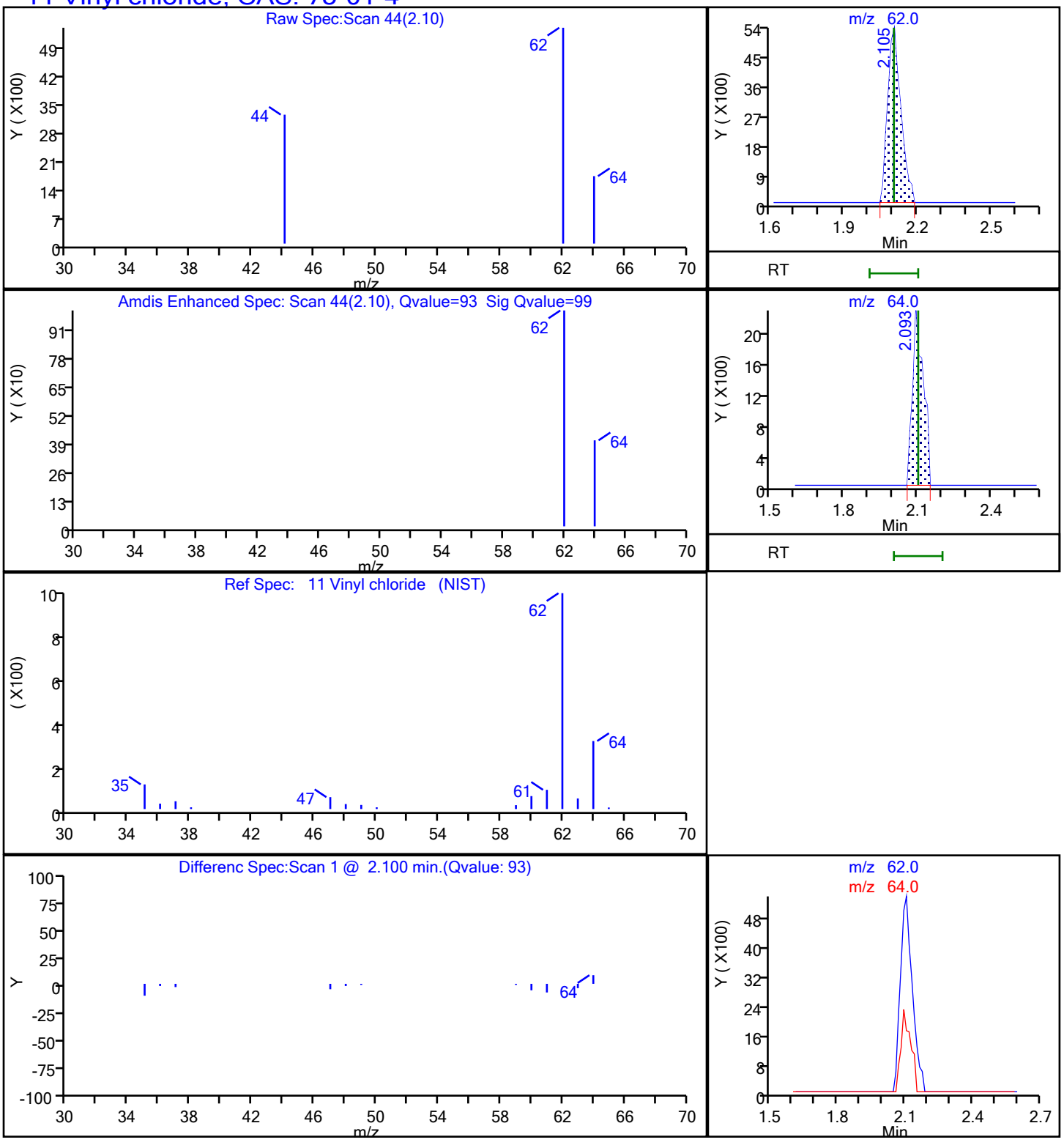
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	16.2	15.1	93.29
$ 5 1,2-Dichloroethane-d4 (Surr)	16.2	15.3	94.10
$ 6 Toluene-d8 (Surr)	16.2	16.3	100.56
$ 7 4-Bromofluorobenzene (Surr)	16.2	19.4	119.61

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994004.D

Injection Date:	17-Mar-2021 12:23:30	Instrument ID:	A3UX9
Lims ID:	240-145599-A-18	Lab Sample ID:	240-145599-18
Client ID:	MSA-SW42B-030821		
Operator ID:	001765	ALS Bottle#:	14 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_9	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UXM35691.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.55	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UXM35691.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.30	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.13	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.35	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.16	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
1330-20-7	Xylenes, Total	0.43	J	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UXM35691.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	105		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	91		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UXM35691.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UXM35691.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 14:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35691.D
Lims ID: 240-145599-B-19
Client ID: MSA-SW42C-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 14:46:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-013
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 20:02:51 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 08:05:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1000957	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	87	820783	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	95	434777	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	284182	26.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	297771	25.2	
$ 6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	93	1000770	22.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.712	0.011	97	430521	27.0	
9 Dichlorodifluoromethane	85		1.719				ND	
10 Chloromethane	50		1.909				ND	7
11 Vinyl chloride	62	2.027	2.027	0.000	97	25218	1.49	
13 Bromomethane	94	2.383	2.383	0.000	84	3880	0.3568	
14 Chloroethane	64		2.490				ND	
16 Trichlorofluoromethane	101		2.751				ND	
19 1,1-Dichloroethene	96		3.260				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
21 Acetone	58	3.308	3.308	0.000	94	1053	1.18	
24 Carbon disulfide	76		3.474				ND	
28 Methylene Chloride	84		3.735				ND	
29 2-Methyl-2-propanol	59		3.806				ND	
31 Methyl tert-butyl ether	73		3.960				ND	
32 trans-1,2-Dichloroethene	96		3.984				ND	
35 Vinyl acetate	43		4.363				ND	
34 1,1-Dichloroethane	63		4.375				ND	
36 Isopropyl ether	87		4.387				ND	
38 Tert-butyl ethyl ether	59		4.707				ND	
40 2-Butanone (MEK)	72		4.849				ND	
41 2,2-Dichloropropane	77		4.873				ND	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	75	7076	0.5463	
45 Chlorobromomethane	128		5.075				ND	
47 Chloroform	83		5.158				ND	
48 1,1,1-Trichloroethane	97		5.312				ND	
51 Carbon tetrachloride	117		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	99	17765	0.3452	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.051				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.620				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.703				ND	
85 m-Xylene & p-Xylene	106	8.822	8.810	0.012	96	7058	0.2995	
86 o-Xylene	106	9.190	9.190	0.000	90	3007	0.1336	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.545				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.043				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	91	6752	0.1561	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.791				ND	
107 4-Isopropyltoluene	119		10.802				ND	
108 1,4-Dichlorobenzene	146		10.885				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.217				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.4331	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

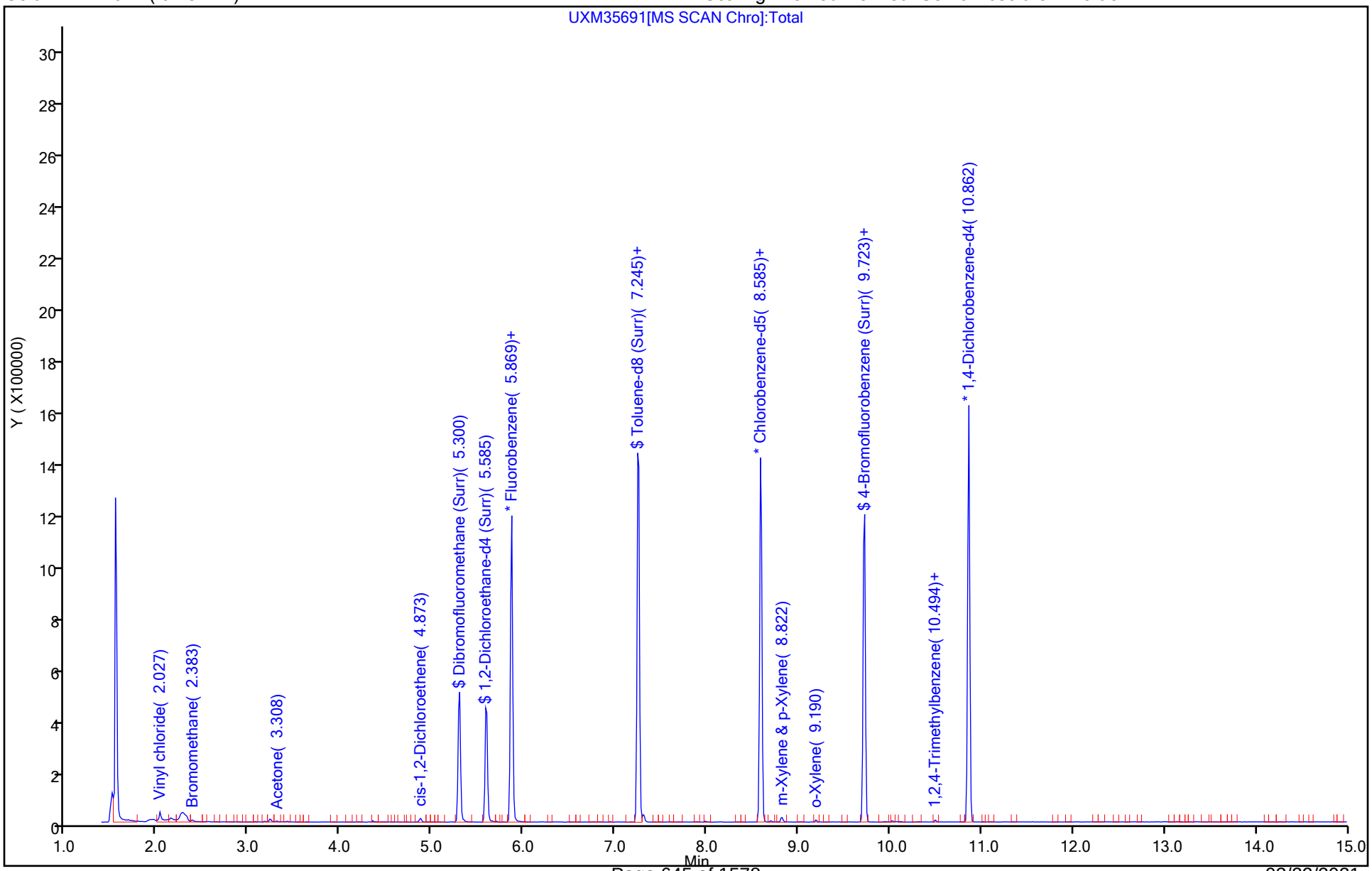
Report Date: 17-Mar-2021 08:09:00 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35691.D

Injection Date:	16-Mar-2021 14:46:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-19	Lab Sample ID:	240-145599-19	Worklist Smp#:	13
Client ID:	MSA-SW42C-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35691.D
Lims ID: 240-145599-B-19
Client ID: MSA-SW42C-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 14:46:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-013
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 20:02:51 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 08:05:24

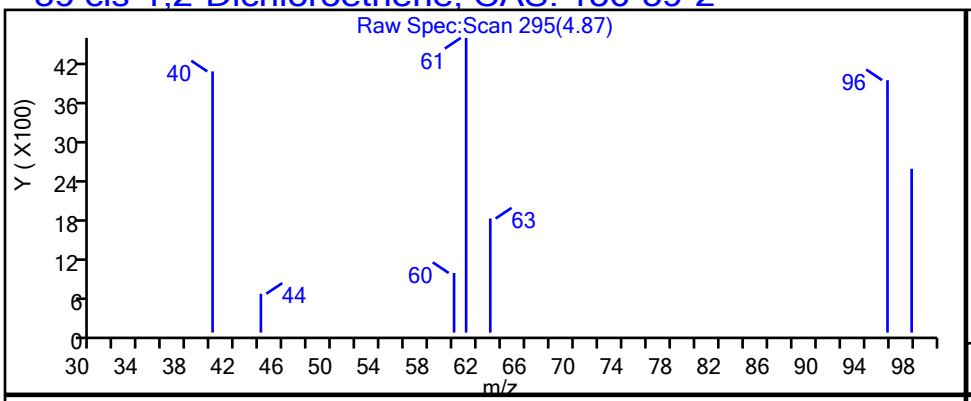
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.0	104.52
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.2	101.18
$ 6 Toluene-d8 (Surr)	24.9	22.7	91.00
$ 7 4-Bromofluorobenzene (Surr)	24.9	27.0	108.46

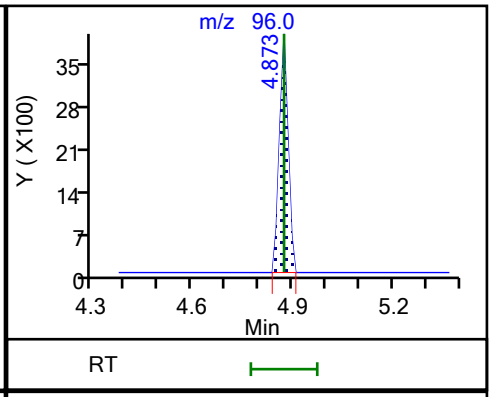
Report Date: 17-Mar-2021 08:09:01 Chrom Revision: 2.3 05-Feb-2021 00:13:28

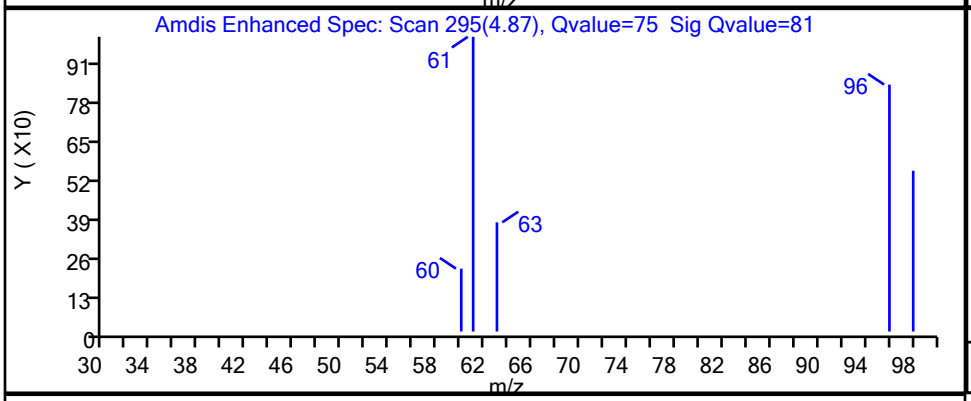
Eurofins TestAmerica, Canton

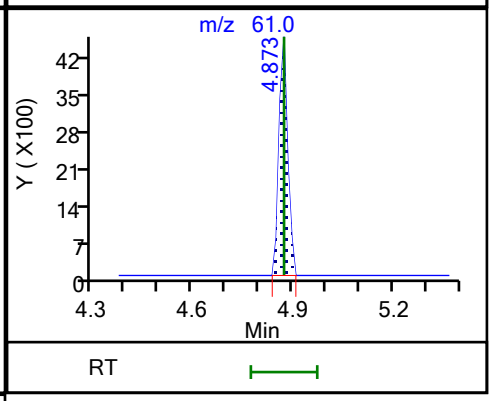
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35691.D				
Injection Date:	16-Mar-2021 14:46:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-19	Lab Sample ID:	240-145599-19		
Client ID:	MSA-SW42C-030821				
Operator ID:	001765	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

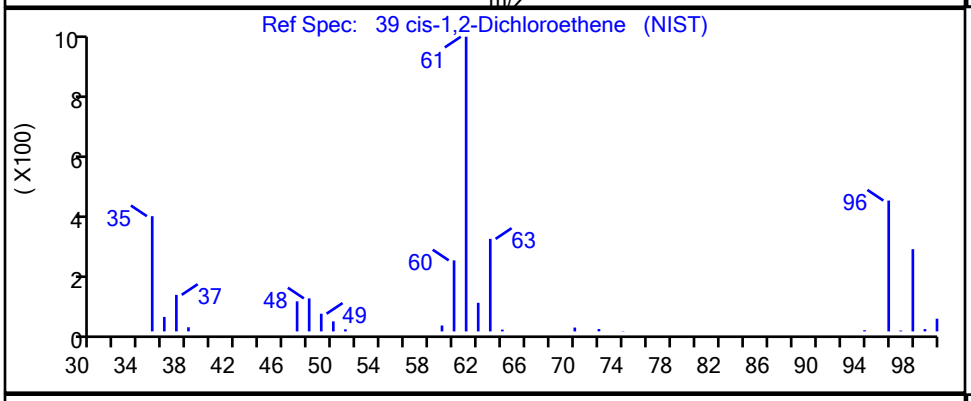
39 cis-1,2-Dichloroethene, CAS: 156-59-2

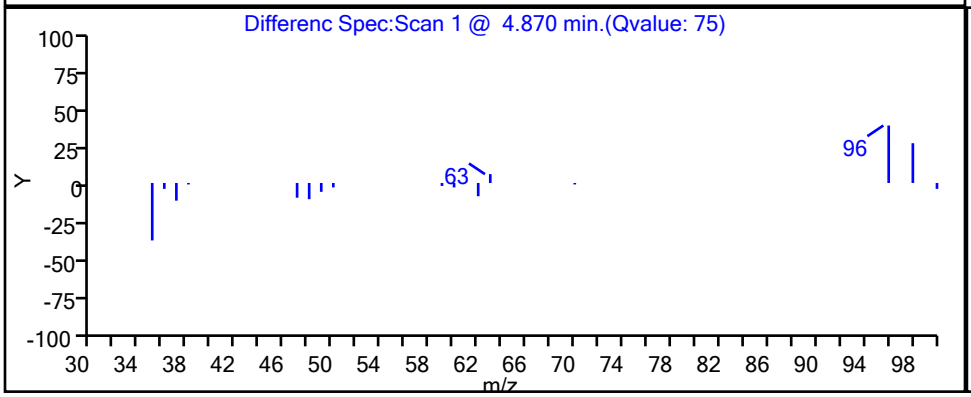


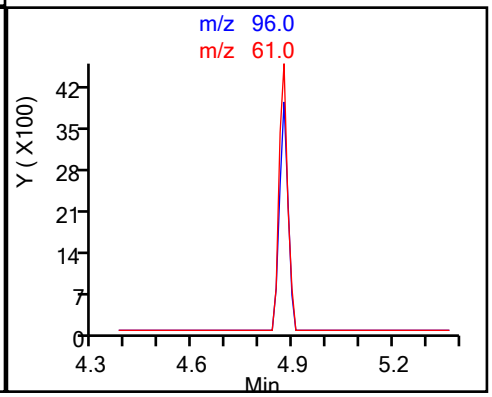








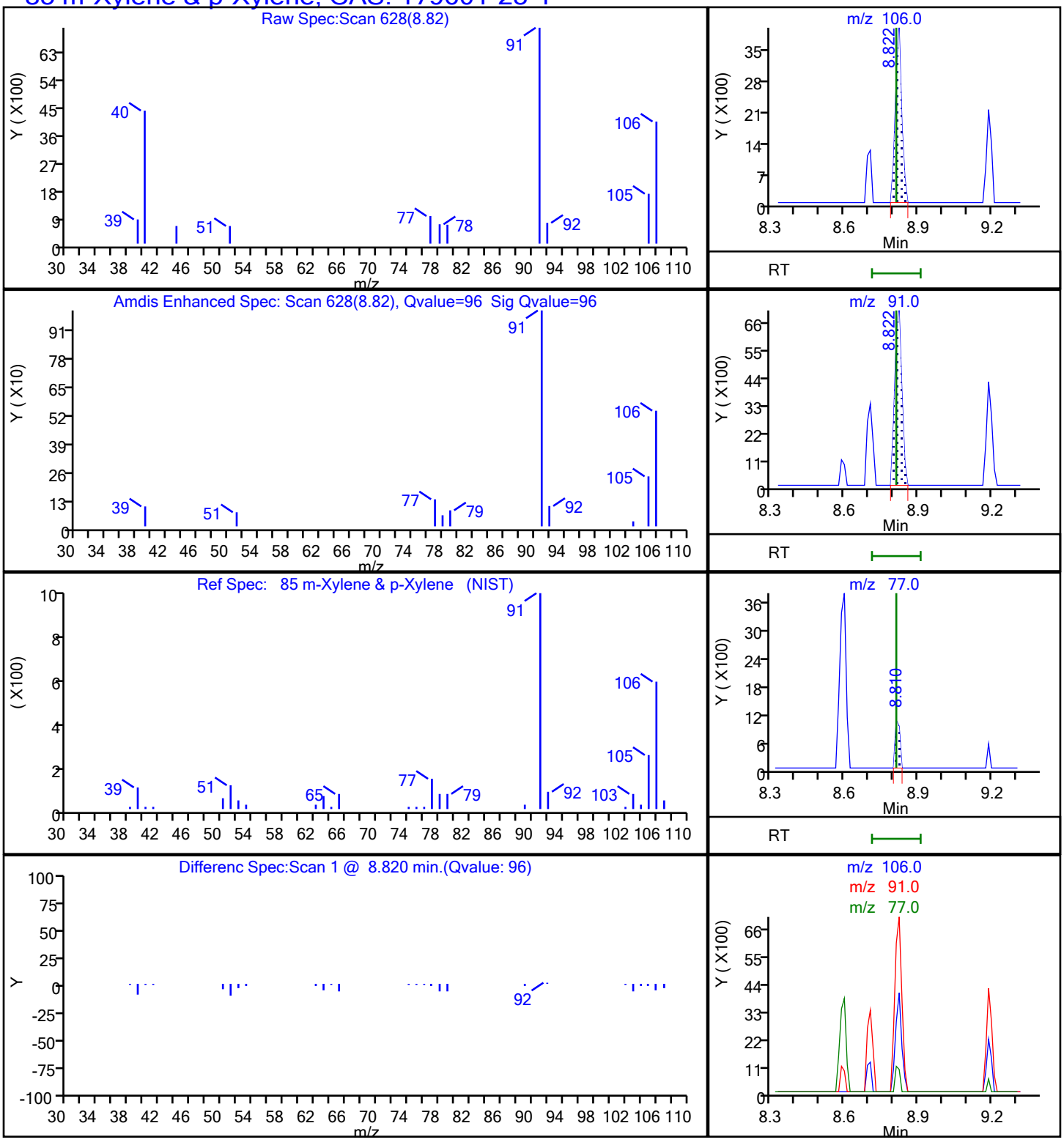




Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35691.D				
Injection Date:	16-Mar-2021 14:46:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-19	Lab Sample ID:	240-145599-19		
Client ID:	MSA-SW42C-030821				
Operator ID:	001765	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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

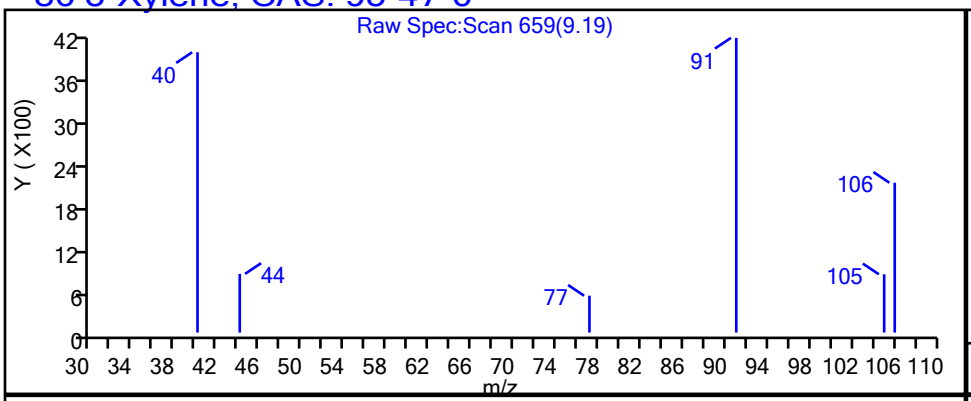


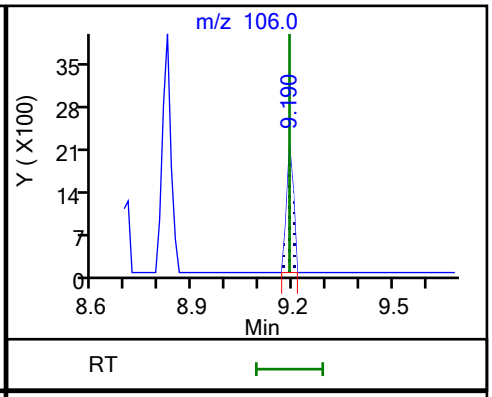
Eurofins TestAmerica, Canton

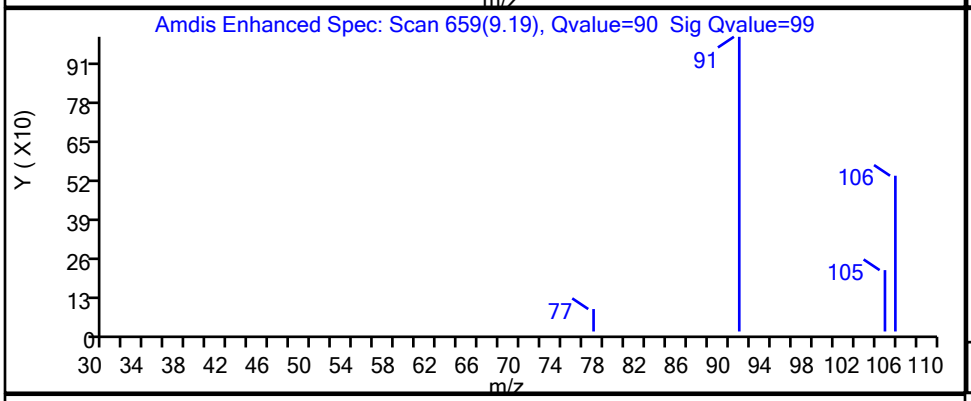
Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35691.D

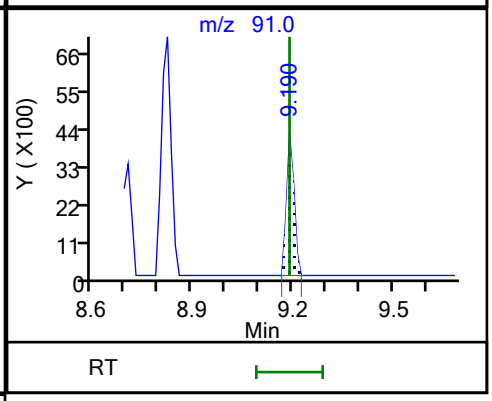
Injection Date:	16-Mar-2021 14:46:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-19	Lab Sample ID:	240-145599-19		
Client ID:	MSA-SW42C-030821				
Operator ID:	001765	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

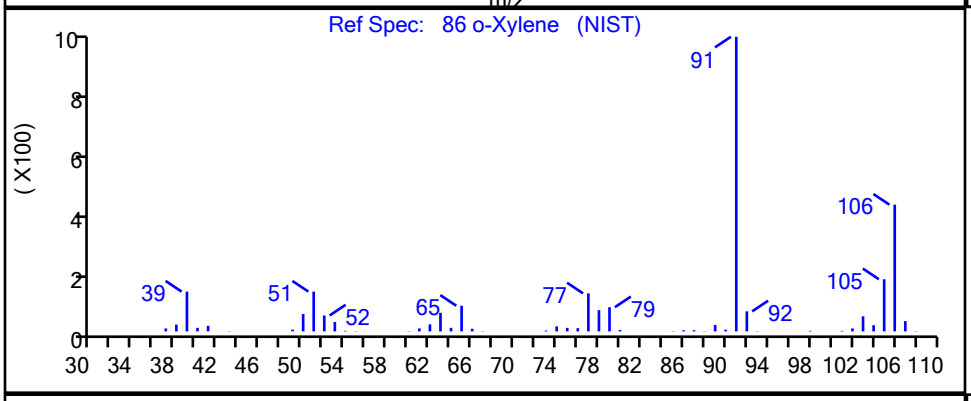
86 o-Xylene, CAS: 95-47-6

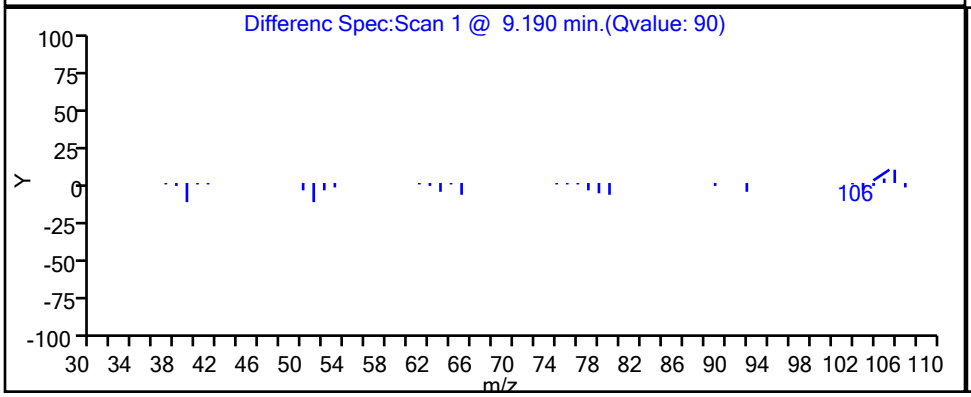


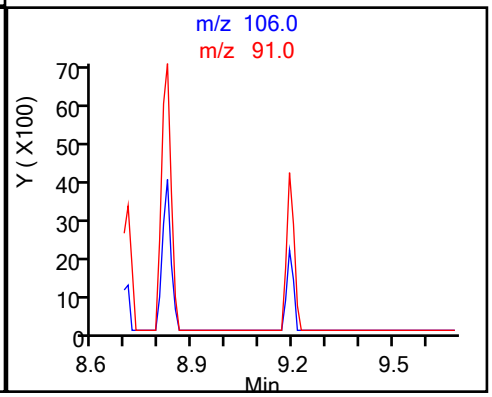








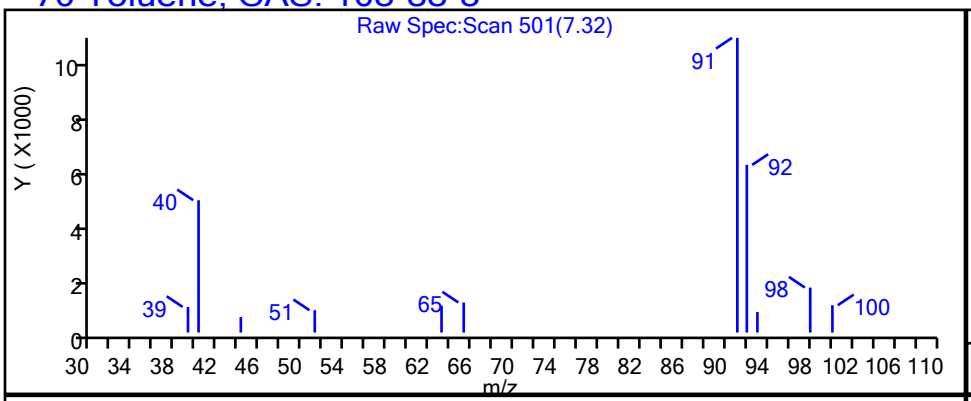


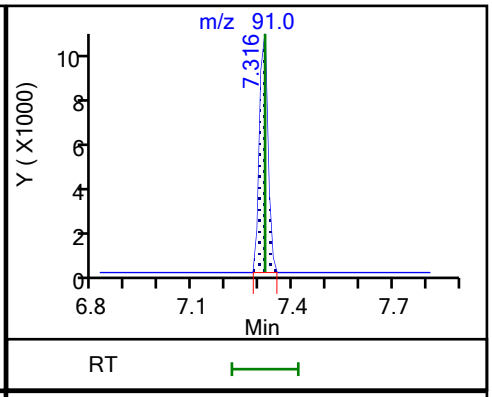


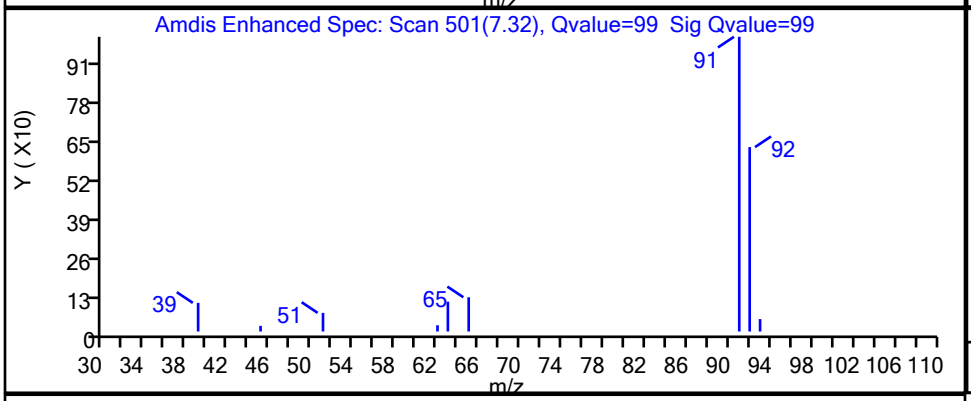
Eurofins TestAmerica, Canton

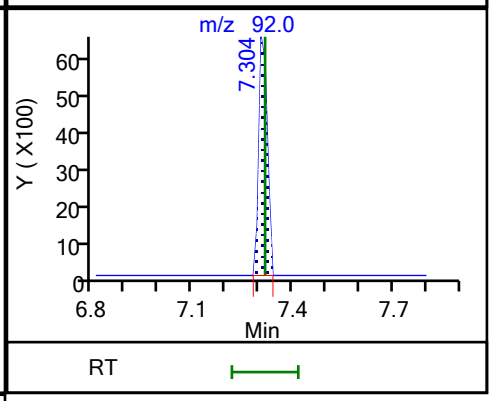
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35691.D		
Injection Date:	16-Mar-2021 14:46:30	Instrument ID:	A3UX16
Lims ID:	240-145599-B-19	Lab Sample ID:	240-145599-19
Client ID:	MSA-SW42C-030821		
Operator ID:	001765	ALS Bottle#:	13 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

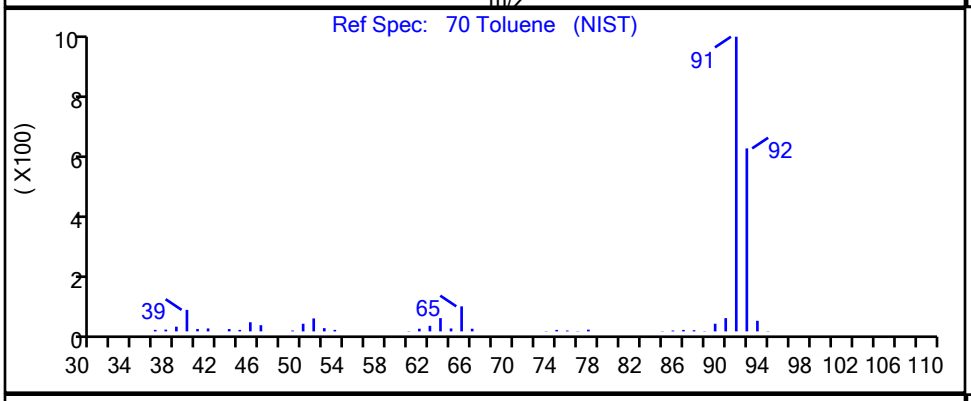
70 Toluene, CAS: 108-88-3

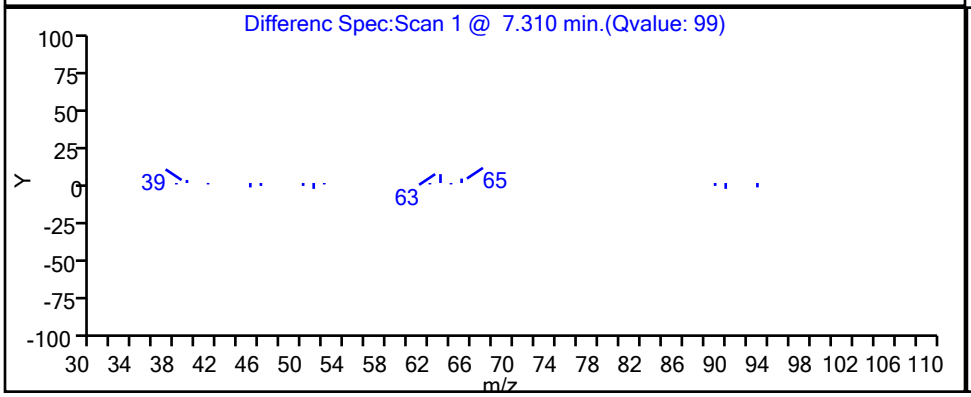


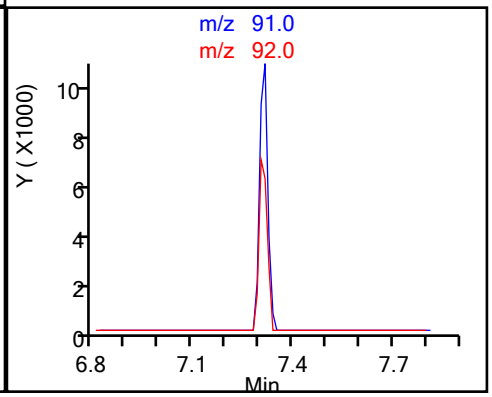








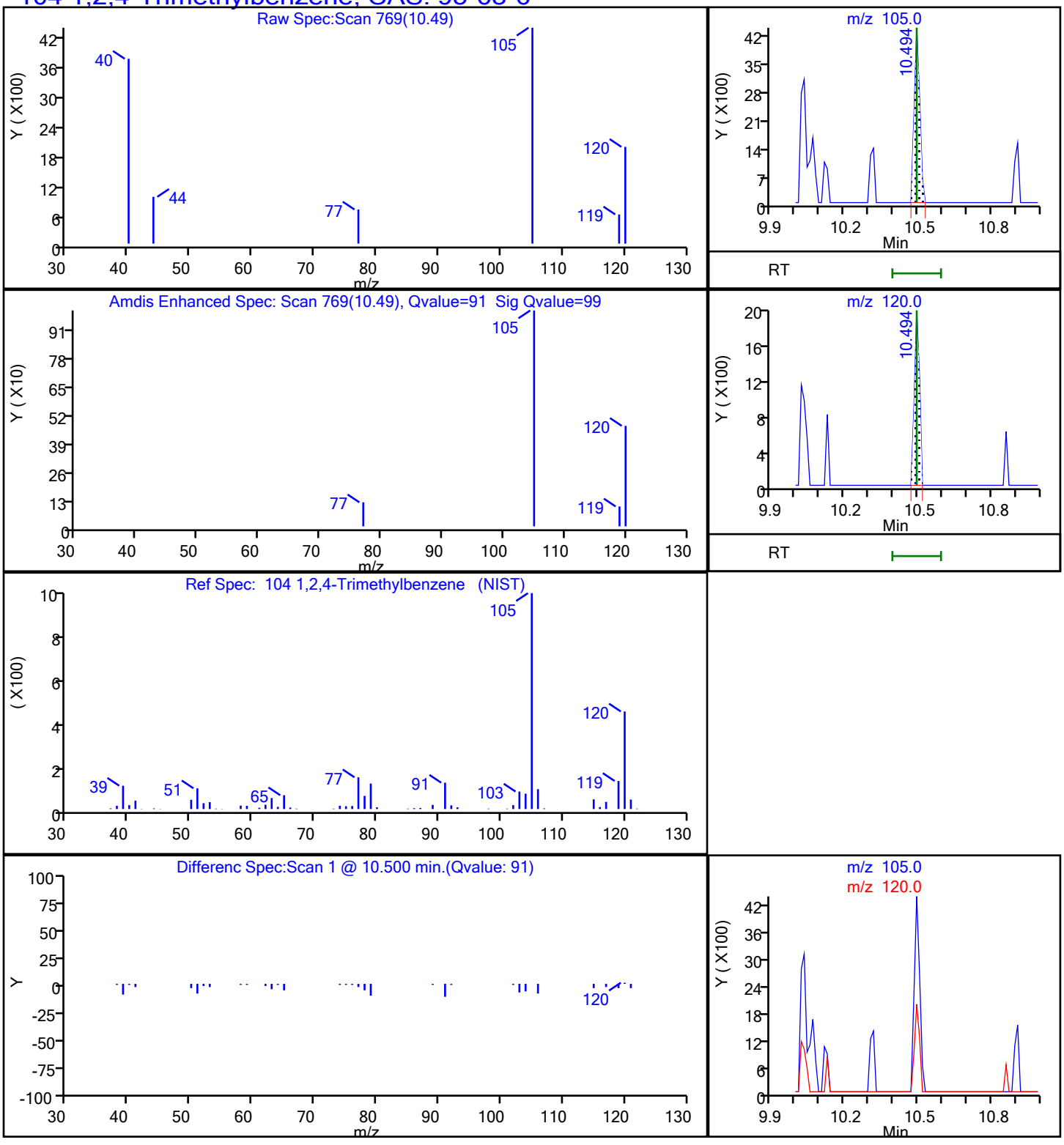




Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35691.D				
Injection Date:	16-Mar-2021 14:46:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-19	Lab Sample ID:	240-145599-19		
Client ID:	MSA-SW42C-030821				
Operator ID:	001765	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

104 1,2,4-Trimethylbenzene, CAS: 95-63-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UX994005.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 12:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.86	J	1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	120		47-134
1868-53-7	Dibromofluoromethane (Surr)	93		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42C-030821 Lab Sample ID: 240-145599-19

Matrix: Water Lab File ID: UX994005.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 12:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994005.D
Lims ID: 240-145599-A-19
Client ID: MSA-SW42C-030821
Sample Type: Client
Inject. Date: 17-Mar-2021 12:46:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107352-015
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 18-Mar-2021 09:21:32 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: bosworthh Date: 18-Mar-2021 09:21:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.867	5.866	0.001	99	1416005	20.0	
* 2 Chlorobenzene-d5	117	8.564	8.564	0.000	85	1132246	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.813	10.812	0.001	95	622521	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.275	5.274	0.001	94	305770	15.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.571	5.570	0.001	100	377864	15.0	
$ 6 Toluene-d8 (Surr)	98	7.251	7.250	0.001	92	1229671	16.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.677	9.676	0.001	90	510063	19.4	
9 Dichlorodifluoromethane	85		1.772				ND	
10 Chloromethane	50		1.985				ND	
11 Vinyl chloride	62	2.104	2.103	0.001	95	19759	0.8628	
13 Bromomethane	94		2.470				ND	
15 Chloroethane	64		2.564				ND	
17 Trichlorofluoromethane	101		2.825				ND	
24 1,1-Dichloroethene	61		3.298				ND	
23 Acetone	58	3.346	3.333	0.013	91	11802	4.37	
22 112TCTFE	101		3.345				ND	
26 Carbon disulfide	76		3.535				ND	7
30 Methylene Chloride	49		3.736				ND	
31 2-Methyl-2-propanol	59		3.830				ND	
33 Methyl tert-butyl ether	73		3.996				ND	
34 trans-1,2-Dichloroethene	61		3.996				ND	
36 1,1-Dichloroethane	63		4.363				ND	
37 Vinyl acetate	43		4.398				ND	
38 Isopropyl ether	87		4.433				ND	
40 Tert-butyl ethyl ether	59		4.740				ND	
43 cis-1,2-Dichloroethene	96	4.873	4.872	0.001	78	9834	0.4132	
41 2-Butanone (MEK)	72		4.872				ND	
42 2,2-Dichloropropane	77		4.884				ND	
47 Chlorobromomethane	49		5.073				ND	
49 Chloroform	83		5.132				ND	
50 1,1,1-Trichloroethane	97		5.321				ND	
52 1,1-Dichloropropene	75		5.452				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.463				ND	
56 1,2-Dichloroethane	62		5.629				ND	
55 Benzene	78		5.641				ND	7
57 Tert-amyl methyl ether	73		5.722				ND	
60 Trichloroethene	130		6.185				ND	
63 1,2-Dichloropropane	63		6.375				ND	
66 Dibromomethane	174		6.481				ND	
67 Dichlorobromomethane	83		6.599				ND	
69 2-Chloroethyl vinyl ether	63		6.848				ND	
71 cis-1,3-Dichloropropene	75		6.990				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.108				ND	
73 Toluene	91	7.310	7.309	0.001	99	29565	0.3407	
74 trans-1,3-Dichloropropene	75		7.475				ND	
77 1,3-Dichloropropane	76		7.806				ND	
78 Tetrachloroethene	166		7.806				ND	
80 2-Hexanone	43		7.854				ND	
82 Chlorodibromomethane	129		8.019				ND	
83 Ethylene Dibromide	107		8.138				ND	
85 Chlorobenzene	112		8.599				ND	
86 1,1,1,2-Tetrachloroethane	131		8.658				ND	
87 Ethylbenzene	106		8.682				ND	7
88 m-Xylene & p-Xylene	106	8.789	8.800	-0.011	99	11028	0.3061	
89 o-Xylene	106	9.180	9.179	0.001	92	4802	0.1297	
90 Styrene	104		9.179				ND	
91 Bromoform	173		9.368				ND	
92 Isopropylbenzene	105		9.522				ND	
94 1,1,2,2-Tetrachloroethane	83		9.794				ND	
95 Bromobenzene	156		9.842				ND	
97 1,2,3-Trichloropropane	110		9.842				ND	
98 N-Propylbenzene	120		9.924				ND	U
100 2-Chlorotoluene	126		10.019				ND	
102 4-Chlorotoluene	126		10.126				ND	
104 tert-Butylbenzene	119		10.421				ND	7
106 1,2,4-Trimethylbenzene	105	10.458	10.457	0.001	92	11678	0.1569	
107 sec-Butylbenzene	134		10.634				ND	
108 1,3-Dichlorobenzene	146		10.753				ND	
109 4-Isopropyltoluene	119		10.764				ND	
110 1,4-Dichlorobenzene	146		10.835				ND	
111 1,2,3-Trimethylbenzene	105		10.881				ND	7
113 n-Butylbenzene	91		11.179				ND	
114 1,2-Dichlorobenzene	146		11.214				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.971				ND	
117 1,2,4-Trichlorobenzene	180		12.823				ND	
118 Hexachlorobutadiene	225		13.001				ND	
119 Naphthalene	128		13.084				ND	7
120 1,2,3-Trichlorobenzene	180		13.356				ND	
S 131 Xylenes, Total	106				0		0.4359	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm100ss_stk_00033	Amount Added:	0.81	Units: uL	Run Reagent

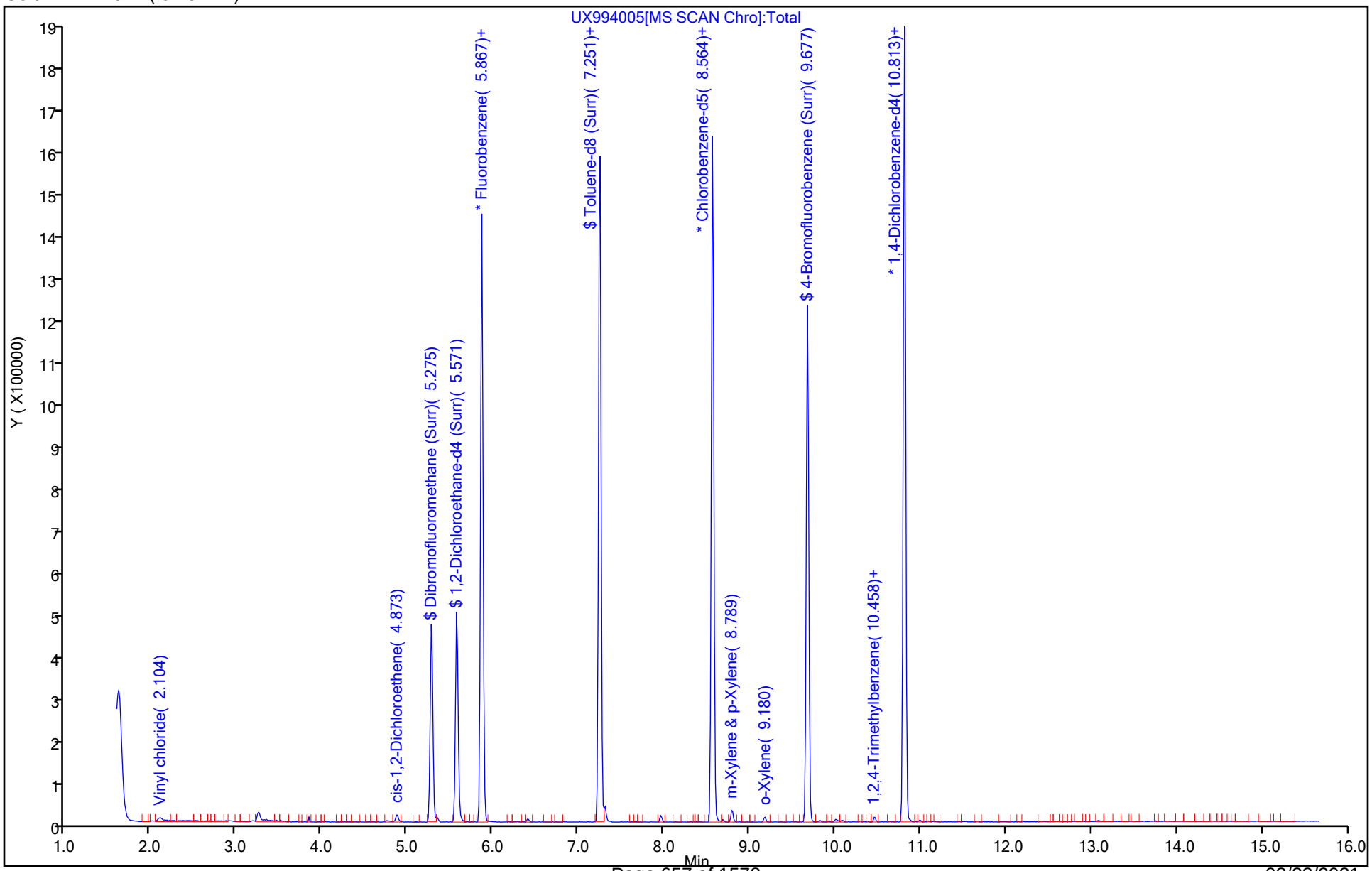
Report Date: 18-Mar-2021 09:21:32 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994005.D

Injection Date:	17-Mar-2021 12:46:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-145599-A-19	Lab Sample ID:	240-145599-19	Worklist Smp#:	15
Client ID:	MSA-SW42C-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994005.D
Lims ID: 240-145599-A-19
Client ID: MSA-SW42C-030821
Sample Type: Client
Inject. Date: 17-Mar-2021 12:46:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107352-015
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 18-Mar-2021 09:21:32 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: bosworthh Date: 18-Mar-2021 09:21:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	16.2	15.1	93.22
$ 5 1,2-Dichloroethane-d4 (Surr)	16.2	15.0	92.29
$ 6 Toluene-d8 (Surr)	16.2	16.3	100.66
$ 7 4-Bromofluorobenzene (Surr)	16.2	19.4	119.52

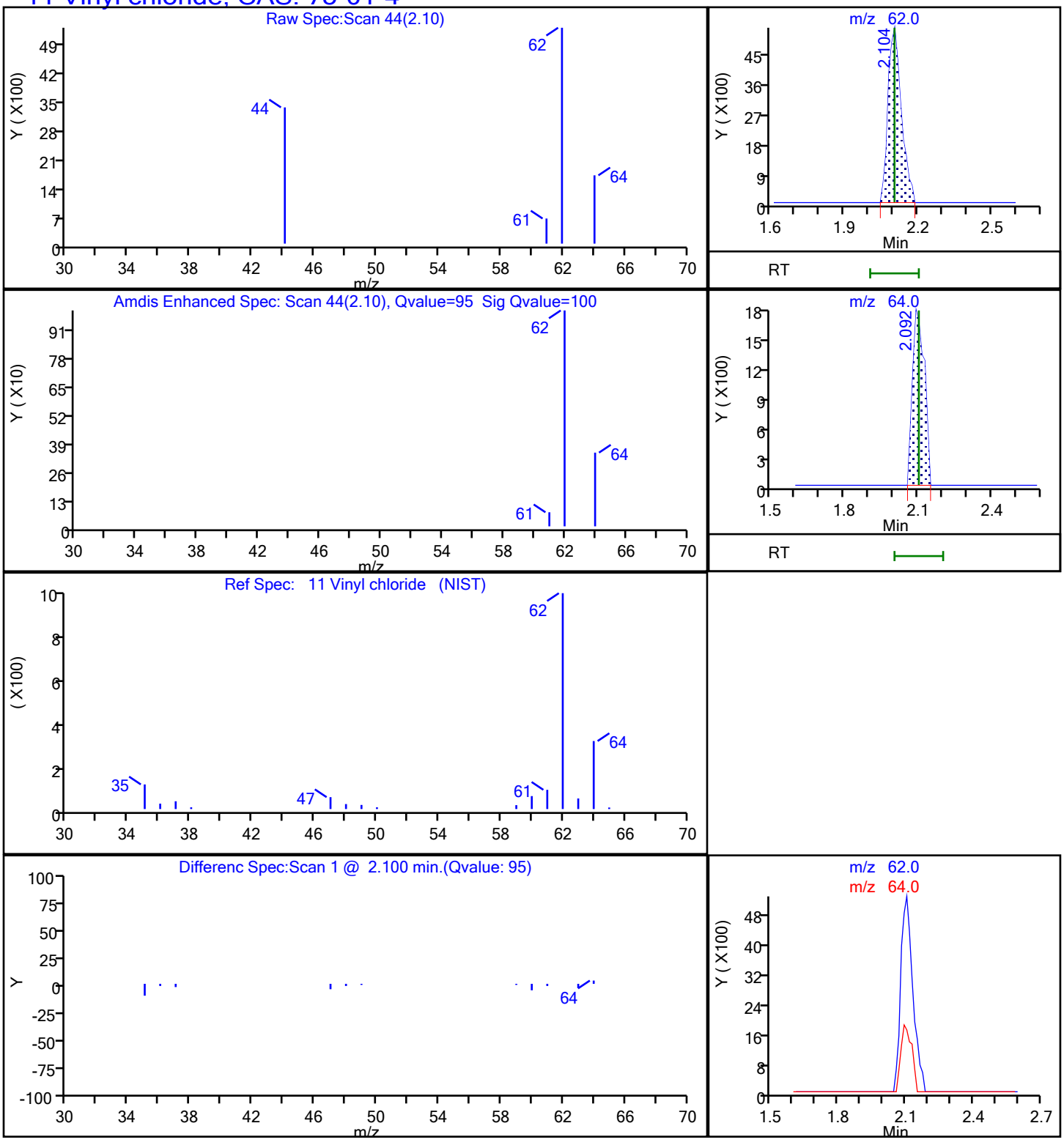
Report Date: 18-Mar-2021 09:21:32 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994005.D

Injection Date:	17-Mar-2021 12:46:30	Instrument ID:	A3UX9		
Lims ID:	240-145599-A-19	Lab Sample ID:	240-145599-19		
Client ID:	MSA-SW42C-030821				
Operator ID:	001765	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42D-030821 Lab Sample ID: 240-145599-20

Matrix: Water Lab File ID: U1920973.d

Analysis Method: 8260C Date Collected: 03/08/2021 10:49

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.31	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42D-030821 Lab Sample ID: 240-145599-20

Matrix: Water Lab File ID: U1920973.d

Analysis Method: 8260C Date Collected: 03/08/2021 10:49

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.28	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.12	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.33	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.13	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.78	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42D-030821 Lab Sample ID: 240-145599-20

Matrix: Water Lab File ID: U1920973.d

Analysis Method: 8260C Date Collected: 03/08/2021 10:49

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.40	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		47-134
1868-53-7	Dibromofluoromethane (Surr)	110		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	124		75-130
2037-26-5	Toluene-d8 (Surr)	105		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42D-030821 Lab Sample ID: 240-145599-20

Matrix: Water Lab File ID: U1920973.d

Analysis Method: 8260C Date Collected: 03/08/2021 10:49

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW42D-030821 Lab Sample ID: 240-145599-20

Matrix: Water Lab File ID: U1920973.d

Analysis Method: 8260C Date Collected: 03/08/2021 10:49

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920973.d
Lims ID: 240-145599-B-20
Client ID: MSA-SW42D-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 01:05:14 ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-017
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:33:39 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:34:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.666	5.666	0.000	98	824119	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	88	667834	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	97	315851	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.049	5.049	0.000	92	244605	22.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	97	315015	24.7	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	840140	21.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.686	9.686	0.000	87	302125	20.0	
9 Dichlorodifluoromethane	85		1.610				ND	
10 Chloromethane	50		1.811				ND	
12 Vinyl chloride	62	1.906	1.918	-0.012	97	9578	0.7801	
13 Bromomethane	94		2.238				ND	
15 Chloroethane	64		2.310				ND	
17 Trichlorofluoromethane	101		2.594				ND	
20 1,1-Dichloroethene	61		3.033				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.069				ND	
22 Acetone	43	3.069	3.080	-0.011	98	7355	2.28	
25 Carbon disulfide	76		3.246				ND	7
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59		3.578				ND	
32 trans-1,2-Dichloroethene	61		3.733				ND	
33 Methyl tert-butyl ether	73		3.744				ND	7
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.148				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
42 2,2-Dichloropropane	77		4.634				ND	
41 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	84	3725	0.3127	
40 2-Butanone (MEK)	72	4.634	4.634	0.000	30	259	0.1331	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.084				ND	
52 Carbon tetrachloride	117		5.239				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		5.239				ND	
54 Benzene	78		5.417				ND	
55 1,2-Dichloroethane	62		5.428				ND	7
56 Tert-amyl methyl ether	73		5.511				ND	
59 Trichloroethene	130		5.998				ND	
62 1,2-Dichloropropane	63		6.199				ND	
64 Dibromomethane	174		6.306				ND	
66 Dichlorobromomethane	83		6.436				ND	
68 2-Chloroethyl vinyl ether	63		6.697				ND	
69 cis-1,3-Dichloropropene	75		6.851				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
71 Toluene	91	7.172	7.172	0.000	98	15079	0.3341	
72 trans-1,3-Dichloropropene	75		7.361				ND	
75 Tetrachloroethene	166		7.705				ND	7
76 1,3-Dichloropropane	76		7.705				ND	
77 2-Hexanone	43		7.776				ND	7
79 Chlorodibromomethane	129		7.931				ND	
81 Ethylene Dibromide	107		8.049				ND	
83 Chlorobenzene	112		8.535				ND	
84 1,1,1,2-Tetrachloroethane	131		8.606				ND	
85 Ethylbenzene	106		8.630				ND	7
86 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	5491	0.2792	
87 o-Xylene	106	9.152	9.152	0.000	94	2179	0.1166	
88 Styrene	104		9.164				ND	
89 Bromoform	173		9.354				ND	
90 Isopropylbenzene	105		9.531				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.852				ND	
96 1,2,3-Trichloropropane	110		9.875				ND	
98 N-Propylbenzene	120		9.947				ND	7
100 2-Chlorotoluene	126		10.041				ND	
102 4-Chlorotoluene	126		10.160				ND	
103 tert-Butylbenzene	119		10.480				ND	7
105 1,2,4-Trimethylbenzene	105	10.528	10.528	0.000	95	4456	0.1250	
106 sec-Butylbenzene	105		10.705				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	7
108 4-Isopropyltoluene	119		10.860				ND	
109 1,4-Dichlorobenzene	146		10.919				ND	7
110 1,2,3-Trimethylbenzene	105		10.966				ND	
112 n-Butylbenzene	91		11.287				ND	
113 1,2-Dichlorobenzene	146		11.310				ND	
114 1,2-Dibromo-3-Chloropropane	157		12.129				ND	
116 1,2,4-Trichlorobenzene	180		13.018				ND	
117 Hexachlorobutadiene	225		13.208				ND	
118 Naphthalene	128		13.279				ND	7
119 1,2,3-Trichlorobenzene	180		13.540				ND	
S 128 Xylenes, Total	106				0		0.3958	
T 131 Chlorodifluoromethane TIC	51		1.640				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL	Run Reagent

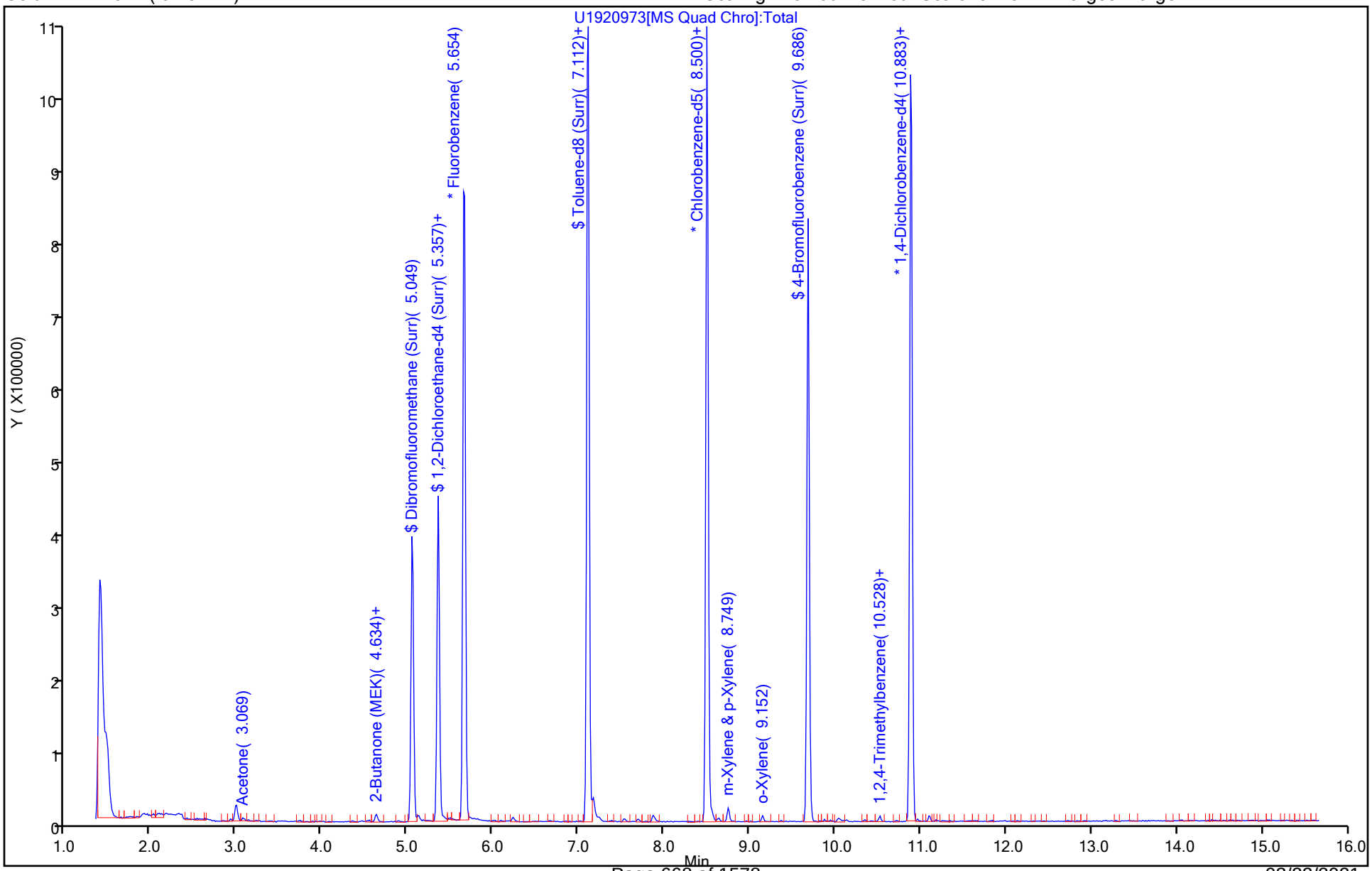
Report Date: 16-Mar-2021 14:34:51 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920973.d

Injection Date:	16-Mar-2021 01:05:14	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-145599-B-20	Lab Sample ID:	240-145599-20	Worklist Smp#:	17
Client ID:	MSA-SW42D-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920973.d
Lims ID: 240-145599-B-20
Client ID: MSA-SW42D-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 01:05:14 ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-017
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:33:39 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:34:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.1	110.25
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	24.7	123.62
$ 6 Toluene-d8 (Surr)	20.0	21.0	104.90
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.0	100.25

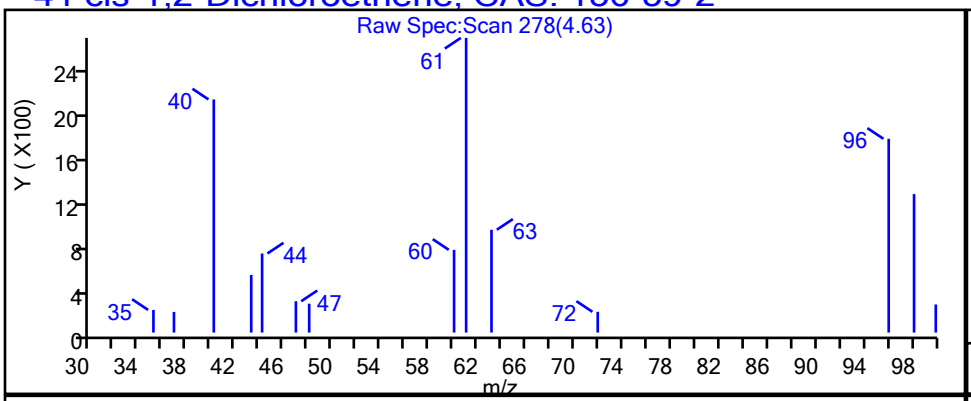
Report Date: 16-Mar-2021 14:34:52 Chrom Revision: 2.3 05-Feb-2021 00:13:28

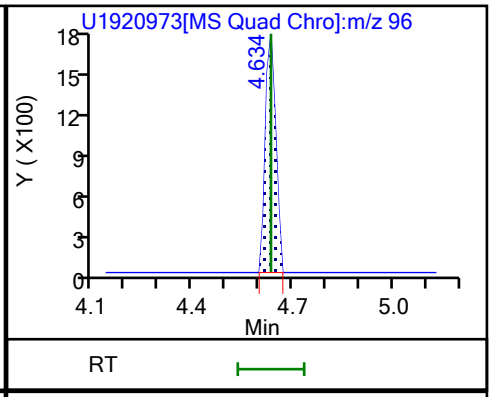
Eurofins TestAmerica, Canton

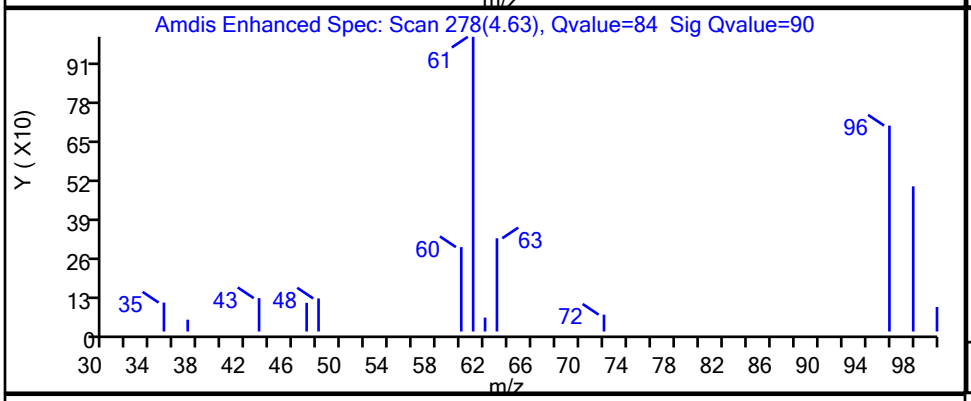
Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920973.d

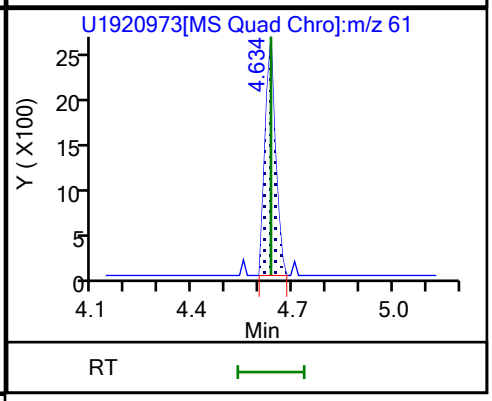
Injection Date:	16-Mar-2021 01:05:14	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-20	Lab Sample ID:	240-145599-20		
Client ID:	MSA-SW42D-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

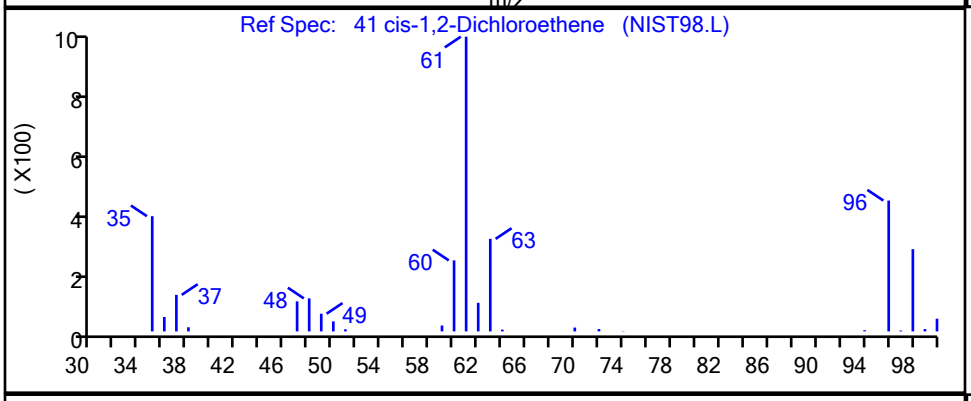
41 cis-1,2-Dichloroethene, CAS: 156-59-2

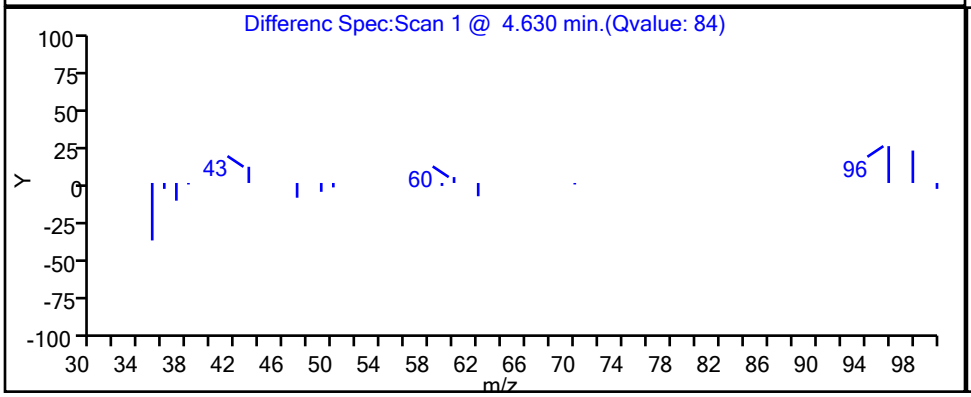


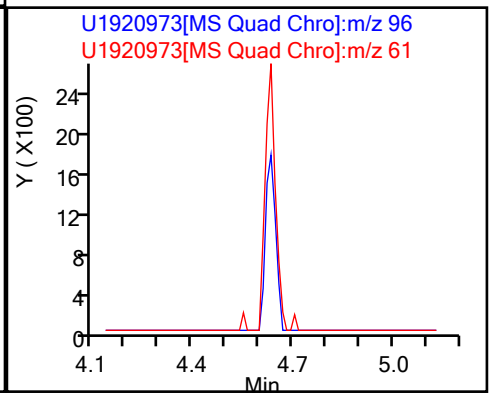












Eurofins TestAmerica, Canton

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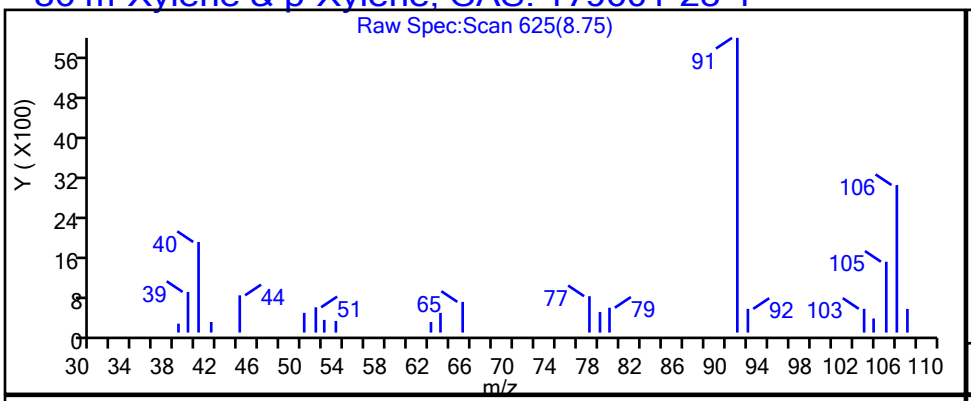
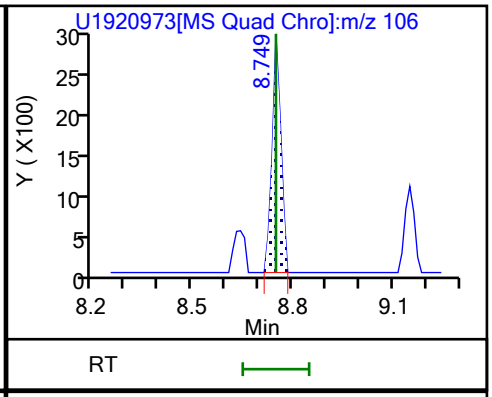
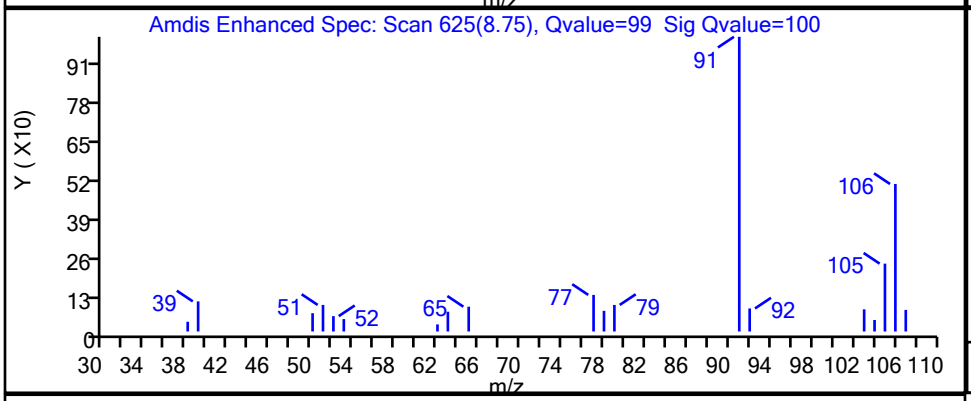
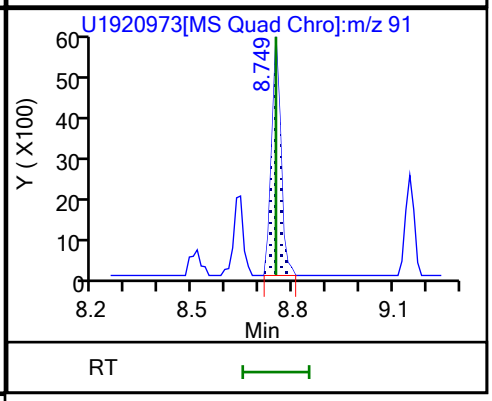
Injection Date:	16-Mar-2021 01:05:14	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-20	Lab Sample ID:	240-145599-20		
Client ID:	MSA-SW42D-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

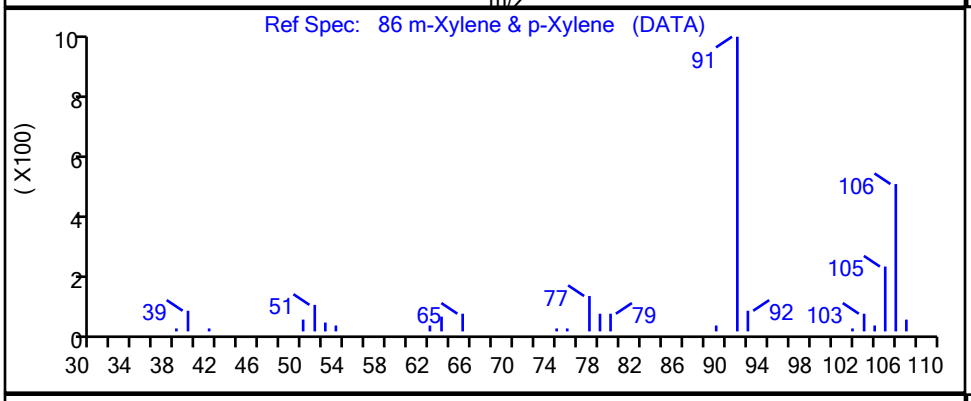
86 m-Xylene & p-Xylene, CAS: 179601-23-1

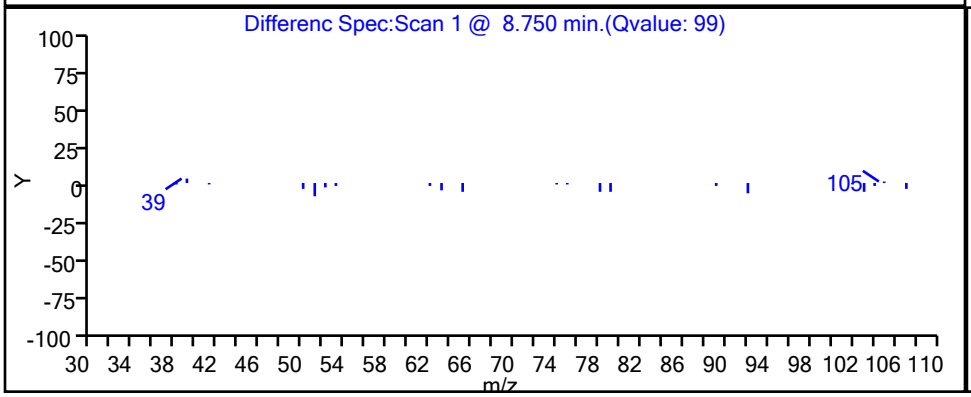


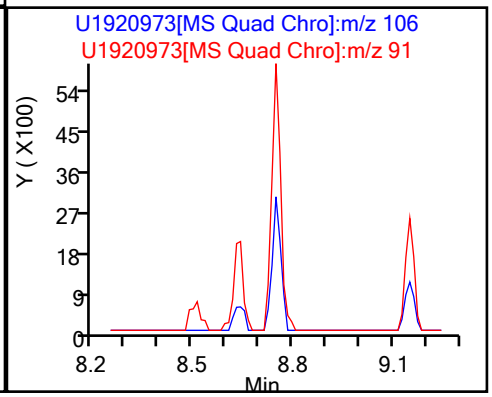








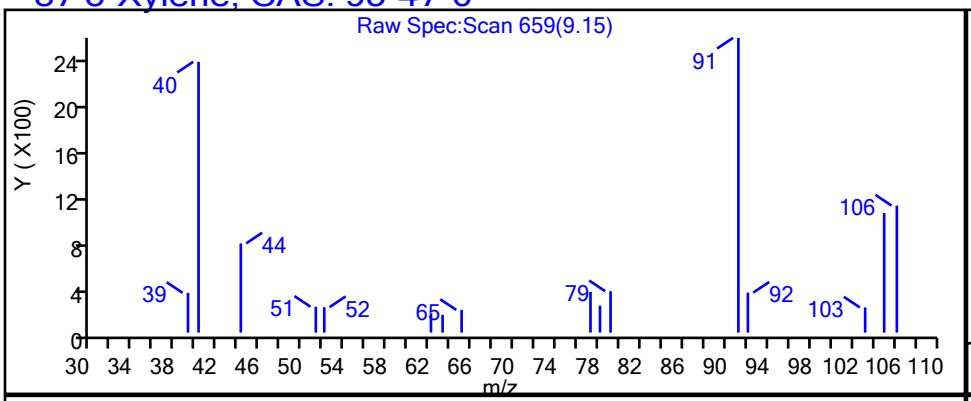


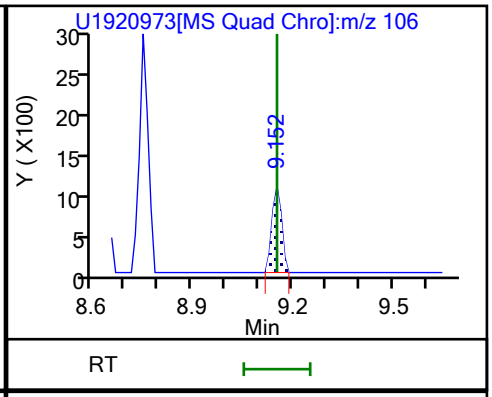


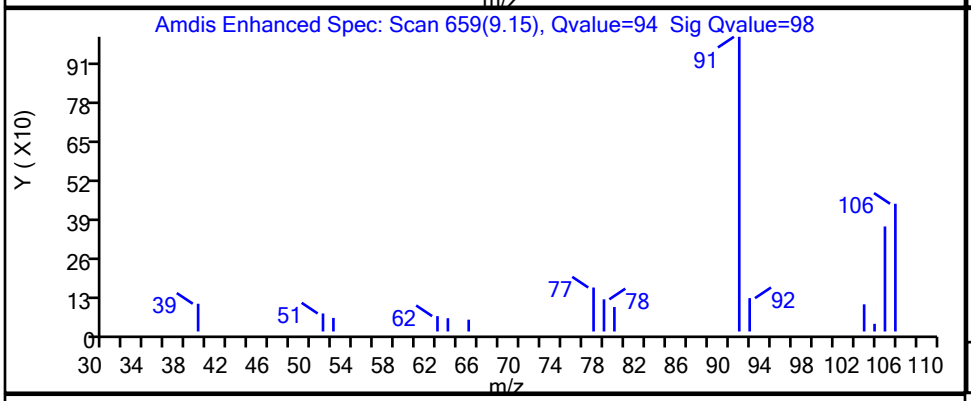
Eurofins TestAmerica, Canton

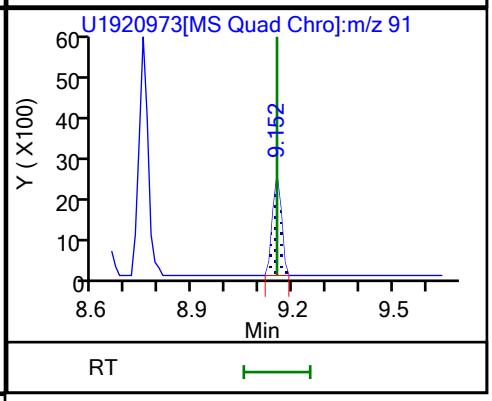
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920973.d		
Injection Date:	16-Mar-2021 01:05:14	Instrument ID:	A3UX19
Lims ID:	240-145599-B-20	Lab Sample ID:	240-145599-20
Client ID:	MSA-SW42D-030821		
Operator ID:	001904	ALS Bottle#:	0 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_19	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

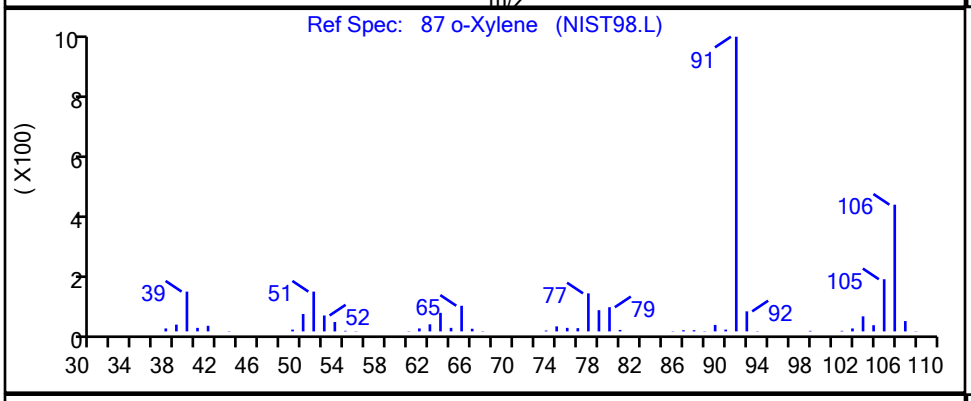
87 o-Xylene, CAS: 95-47-6

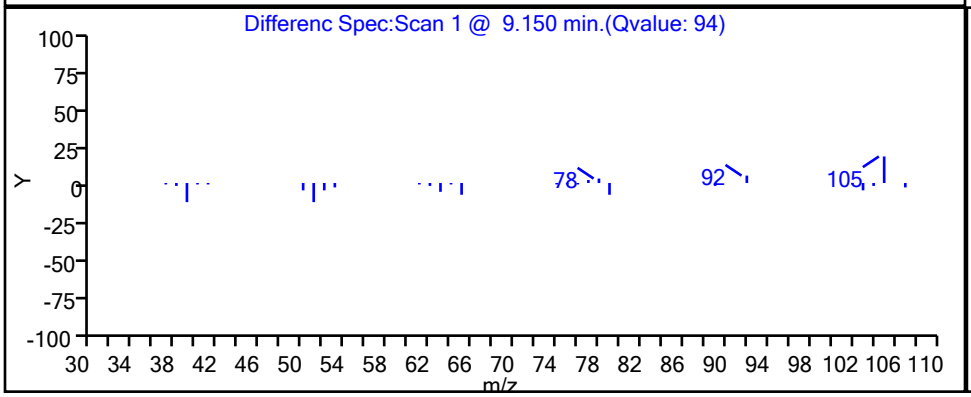


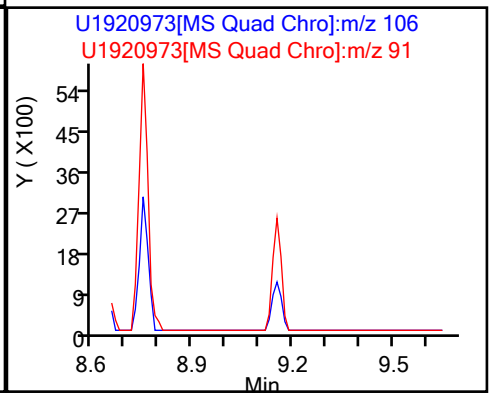












Report Date: 16-Mar-2021 14:34:52 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

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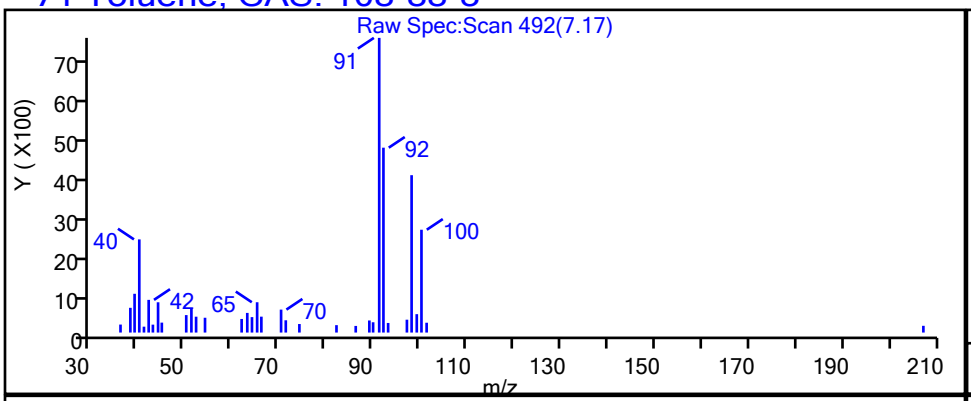
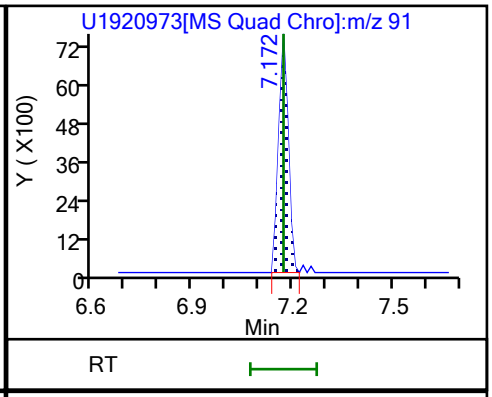
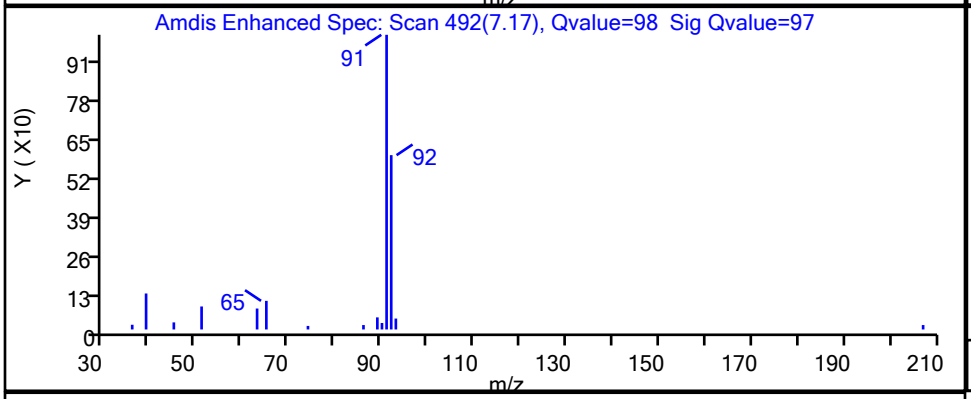
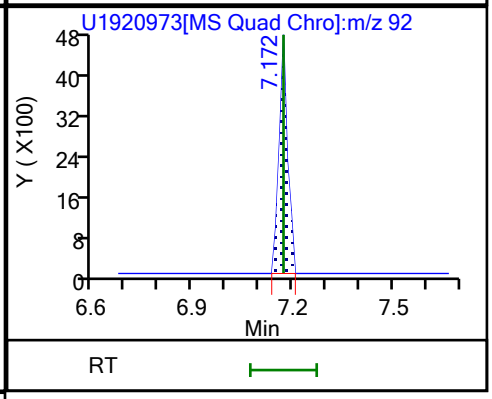
Lims ID:	240-145599-B-20	Lab Sample ID:	240-145599-20
Client ID:	MSA-SW42D-030821		
Operator ID:	001904	ALS Bottle#:	0 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_19	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

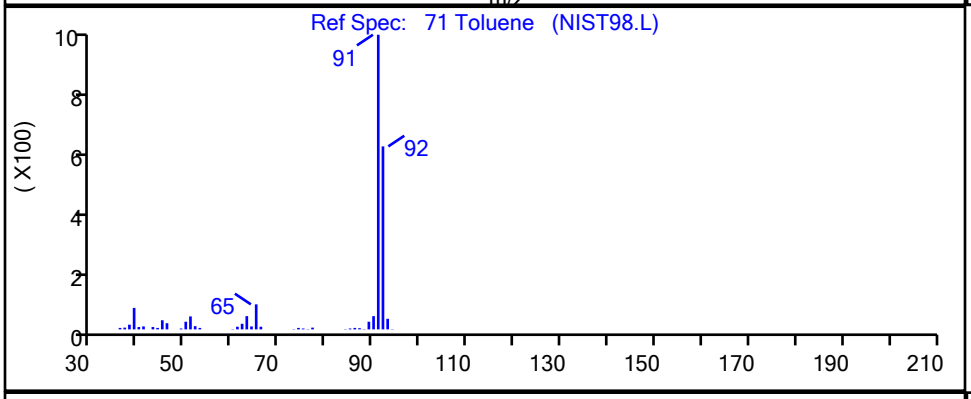
71 Toluene, CAS: 108-88-3

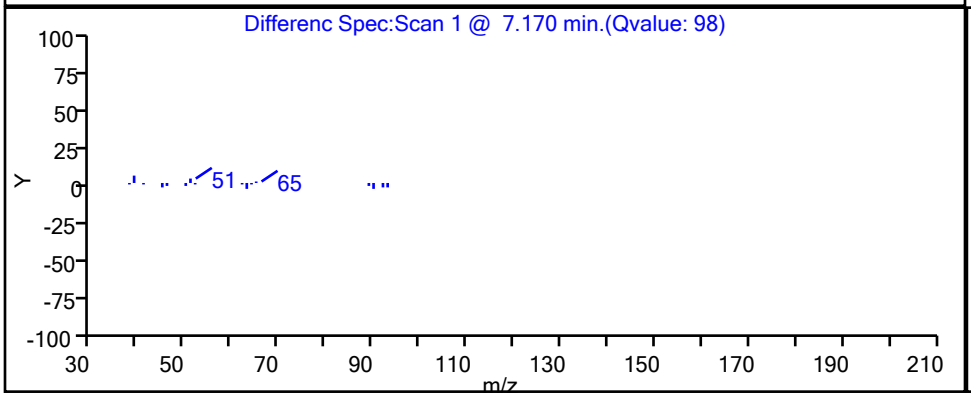


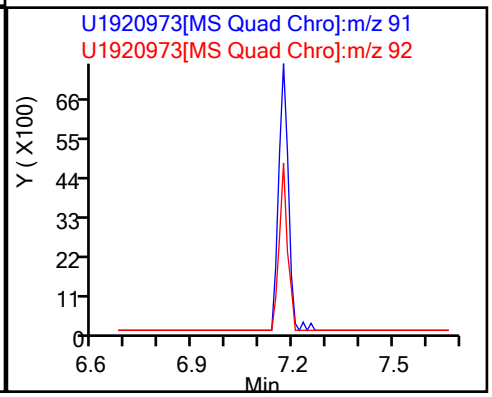












Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920973.d				
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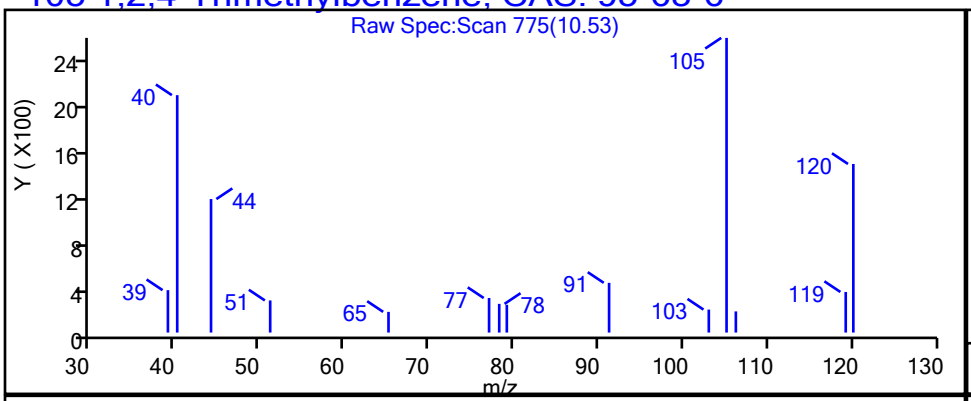
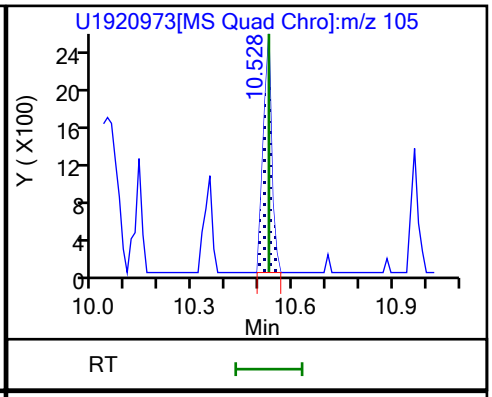
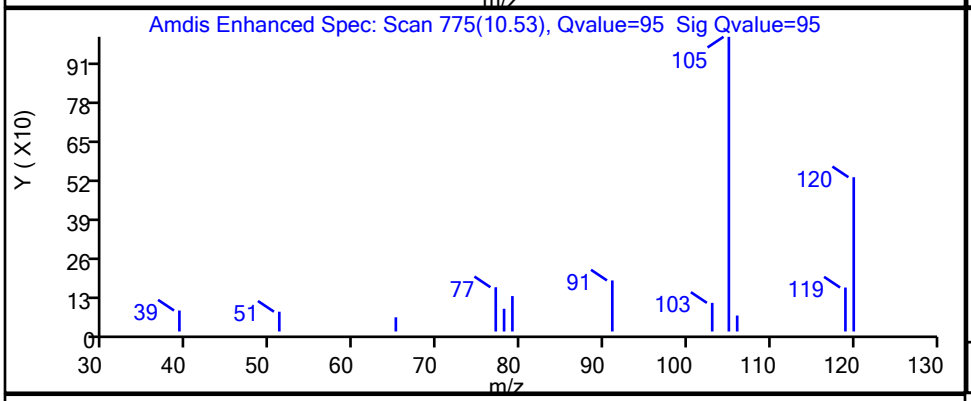
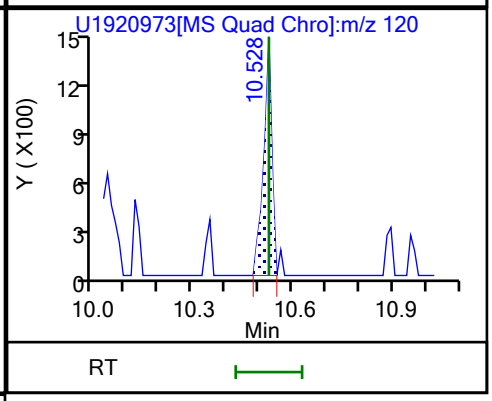
Lims ID:	240-145599-B-20	Lab Sample ID:	240-145599-20		
Client ID:	MSA-SW42D-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

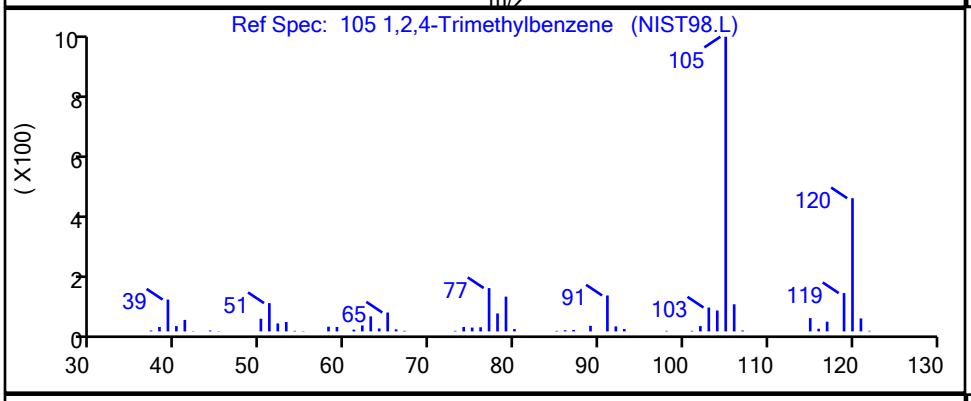
105 1,2,4-Trimethylbenzene, CAS: 95-63-6

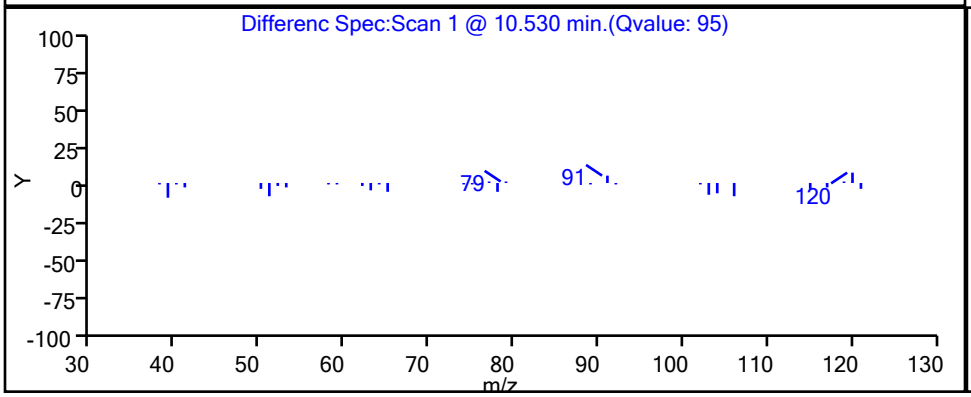


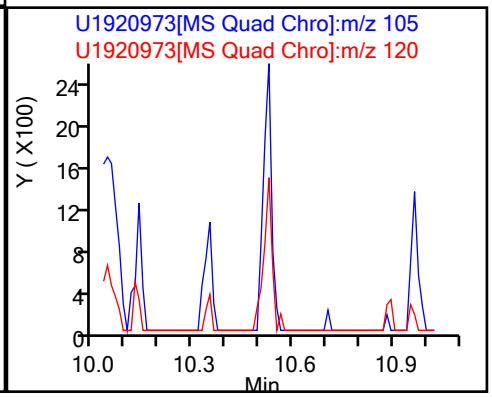












Report Date: 16-Mar-2021 14:34:51 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

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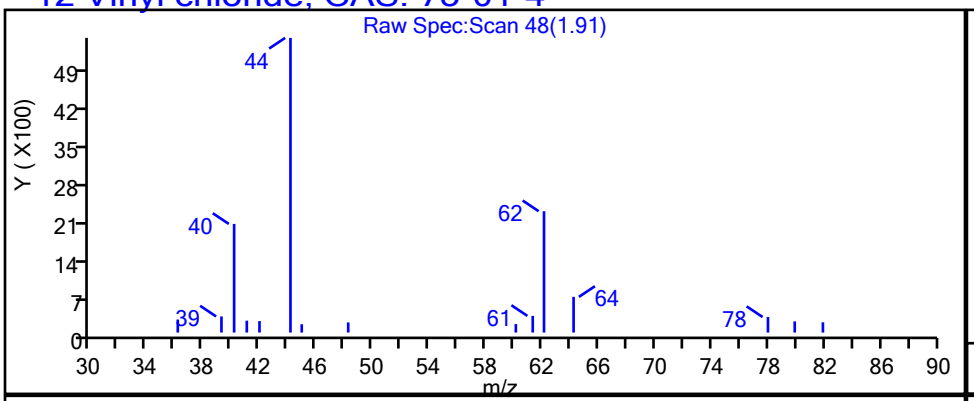
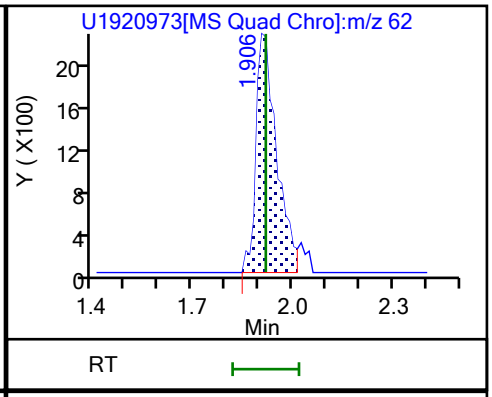
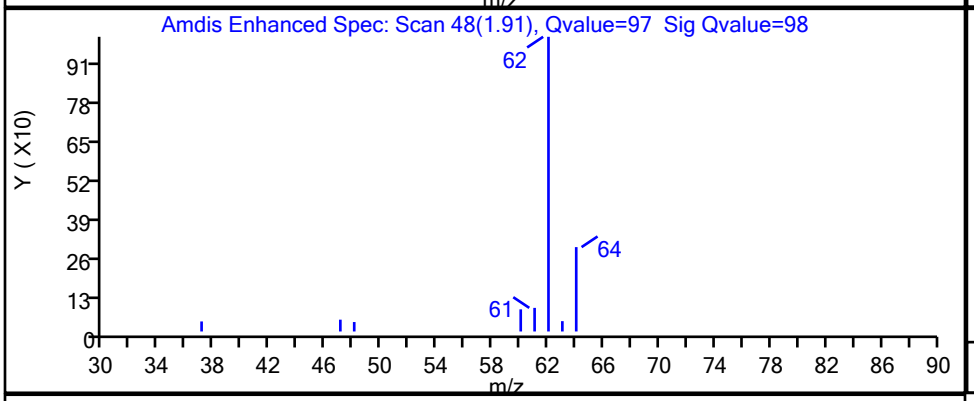
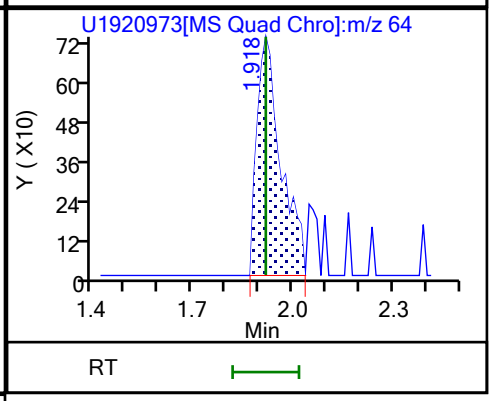
Injection Date:	16-Mar-2021 01:05:14	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-20	Lab Sample ID:	240-145599-20		
Client ID:	MSA-SW42D-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

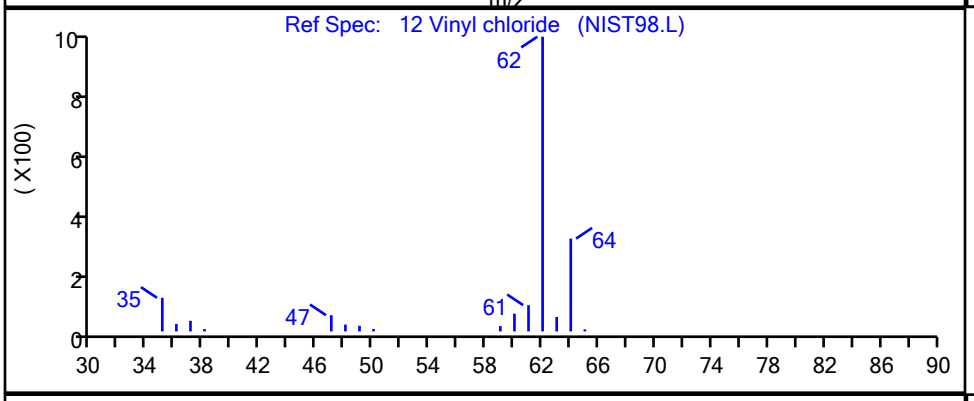
12 Vinyl chloride, CAS: 75-01-4

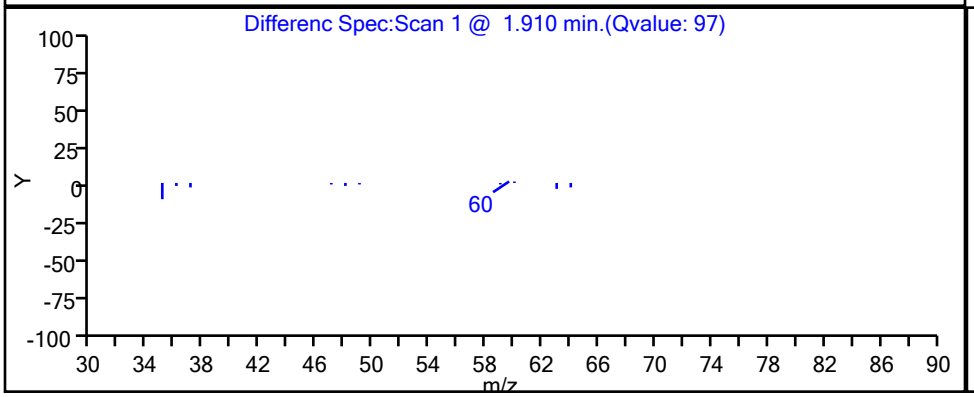


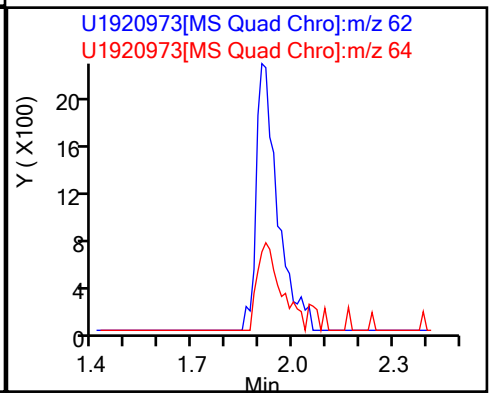












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43A-030821 Lab Sample ID: 240-145599-21

Matrix: Water Lab File ID: U1920974.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43A-030821 Lab Sample ID: 240-145599-21

Matrix: Water Lab File ID: U1920974.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.16	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43A-030821 Lab Sample ID: 240-145599-21

Matrix: Water Lab File ID: U1920974.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	112		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		75-130
2037-26-5	Toluene-d8 (Surr)	105		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43A-030821 Lab Sample ID: 240-145599-21

Matrix: Water Lab File ID: U1920974.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43A-030821 Lab Sample ID: 240-145599-21

Matrix: Water Lab File ID: U1920974.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:14

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 01:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920974.d
Lims ID: 240-145599-B-21
Client ID: MSA-SW43A-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 01:34:13 ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-018
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:35:23 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:35:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.665	5.666	-0.001	99	842728	20.0	
* 2 Chlorobenzene-d5	117	8.499	8.500	-0.001	87	683308	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	97	328816	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.049	5.049	0.000	93	253116	22.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	96	320354	24.6	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	858954	21.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.685	9.686	-0.001	86	304686	19.8	
9 Dichlorodifluoromethane	85		1.610				ND	
10 Chloromethane	50		1.811				ND	
12 Vinyl chloride	62	1.906	1.918	-0.012	37	1831	0.1458	
13 Bromomethane	94		2.238				ND	7
15 Chloroethane	64		2.310				ND	
17 Trichlorofluoromethane	101		2.594				ND	
20 1,1-Dichloroethene	61		3.033				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	95	8393	2.54	
25 Carbon disulfide	76		3.246				ND	7
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.566	3.578	-0.012	12	577	0.5057	
32 trans-1,2-Dichloroethene	61		3.733				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.148				ND	7
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
42 2,2-Dichloropropane	77		4.634				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	7
40 2-Butanone (MEK)	72		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.084				ND	
52 Carbon tetrachloride	117		5.239				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		5.239				ND	
54 Benzene	78		5.417				ND	7
55 1,2-Dichloroethane	62		5.428				ND	7
56 Tert-amyl methyl ether	73		5.511				ND	
59 Trichloroethene	130		5.998				ND	7
62 1,2-Dichloropropane	63		6.199				ND	
64 Dibromomethane	174		6.306				ND	
66 Dichlorobromomethane	83		6.436				ND	
68 2-Chloroethyl vinyl ether	63		6.697				ND	
69 cis-1,3-Dichloropropene	75		6.851				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
71 Toluene	91	7.171	7.172	-0.001	91	7408	0.1604	
72 trans-1,3-Dichloropropene	75		7.361				ND	
75 Tetrachloroethene	166		7.705				ND	7
76 1,3-Dichloropropane	76		7.705				ND	
77 2-Hexanone	43		7.776				ND	U
79 Chlorodibromomethane	129		7.931				ND	
81 Ethylene Dibromide	107		8.049				ND	
83 Chlorobenzene	112		8.535				ND	7
84 1,1,1,2-Tetrachloroethane	131		8.606				ND	
85 Ethylbenzene	106		8.630				ND	
86 m-Xylene & p-Xylene	106		8.749				ND	7
87 o-Xylene	106		9.152				ND	7
88 Styrene	104		9.164				ND	
89 Bromoform	173		9.354				ND	
90 Isopropylbenzene	105		9.531				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.852				ND	
96 1,2,3-Trichloropropane	110		9.875				ND	
98 N-Propylbenzene	120		9.947				ND	
100 2-Chlorotoluene	126		10.041				ND	
102 4-Chlorotoluene	126		10.160				ND	
103 tert-Butylbenzene	119		10.480				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	7
106 sec-Butylbenzene	105		10.705				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	7
108 4-Isopropyltoluene	119		10.860				ND	
109 1,4-Dichlorobenzene	146		10.919				ND	7
110 1,2,3-Trimethylbenzene	105		10.966				ND	
112 n-Butylbenzene	91		11.287				ND	7
113 1,2-Dichlorobenzene	146		11.310				ND	
114 1,2-Dibromo-3-Chloropropane	157		12.129				ND	
116 1,2,4-Trichlorobenzene	180		13.018				ND	
117 Hexachlorobutadiene	225		13.208				ND	
118 Naphthalene	128		13.279				ND	7
119 1,2,3-Trichlorobenzene	180		13.540				ND	
S 128 Xylenes, Total	106		16.520				ND	
T 131 Chlorodifluoromethane TIC	51		1.640				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL	Run Reagent

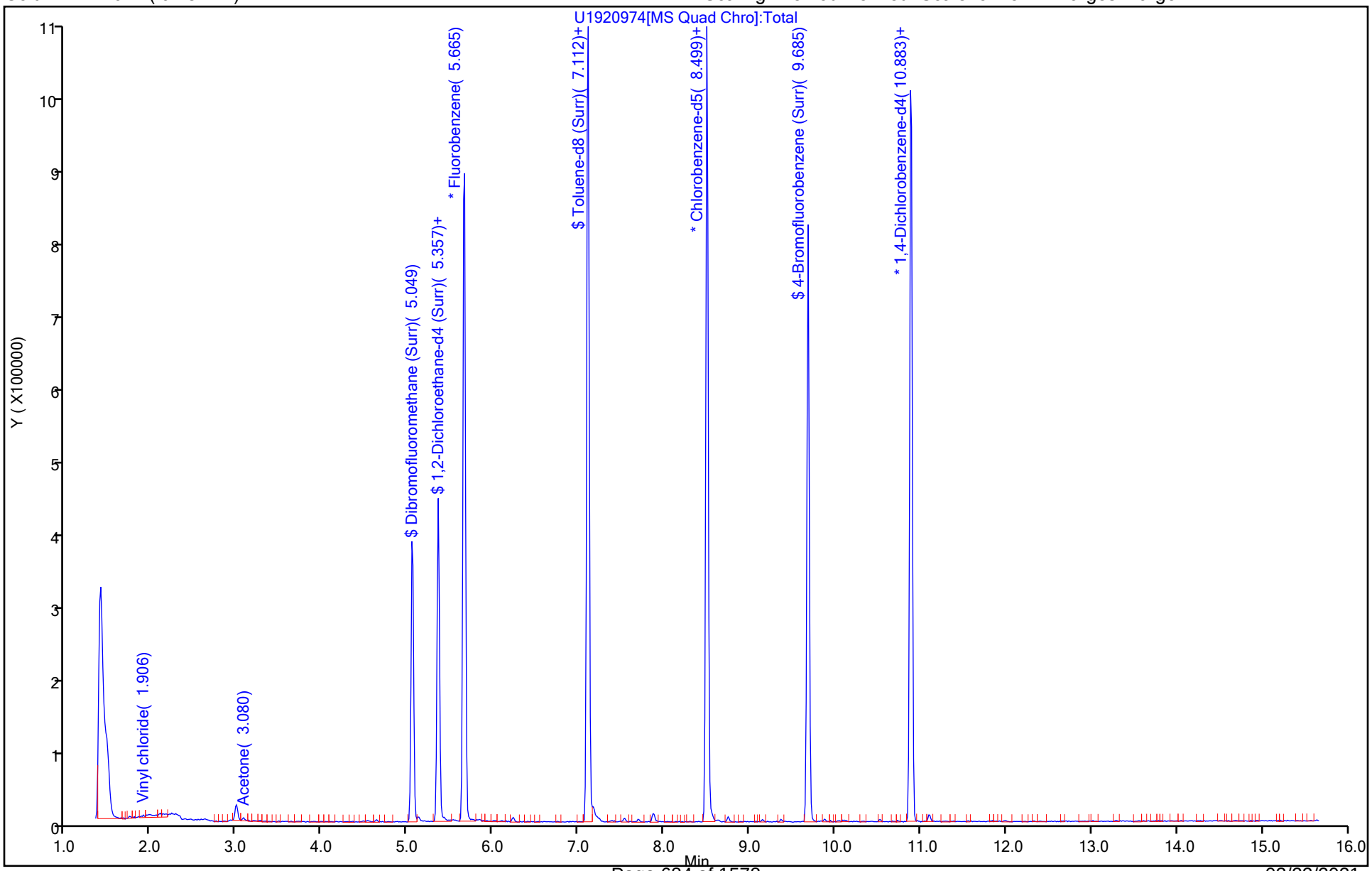
Report Date: 16-Mar-2021 14:35:23 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920974.d

Injection Date:	16-Mar-2021 01:34:13	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-145599-B-21	Lab Sample ID:	240-145599-21	Worklist Smp#:	18
Client ID:	MSA-SW43A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920974.d
Lims ID: 240-145599-B-21
Client ID: MSA-SW43A-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 01:34:13 ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-018
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:35:23 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:35:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.3	111.57
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	24.6	122.94
$ 6 Toluene-d8 (Surr)	20.0	21.0	104.82
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.8	98.81

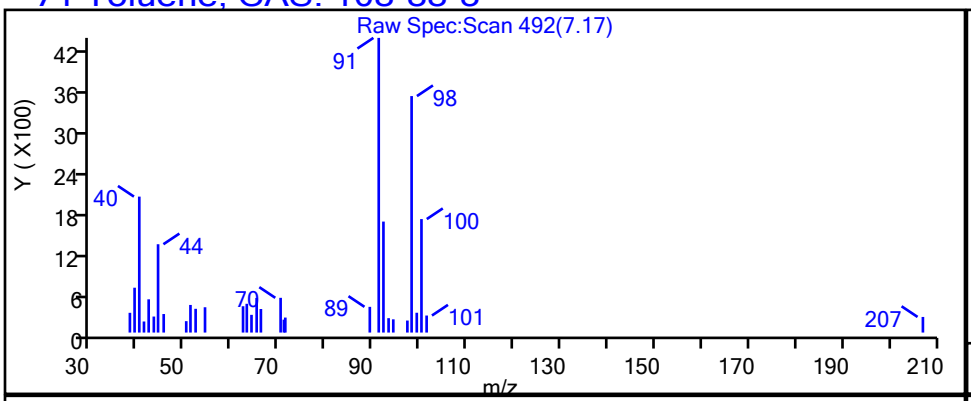
Report Date: 16-Mar-2021 14:35:23 Chrom Revision: 2.3 05-Feb-2021 00:13:28

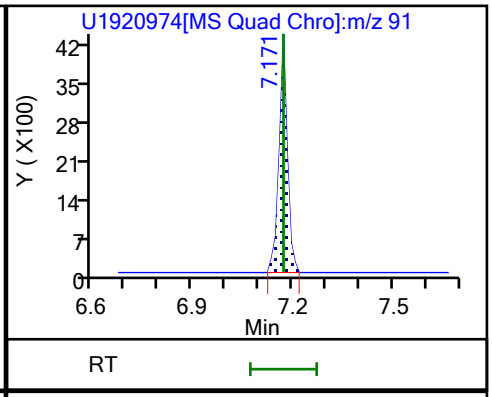
Eurofins TestAmerica, Canton

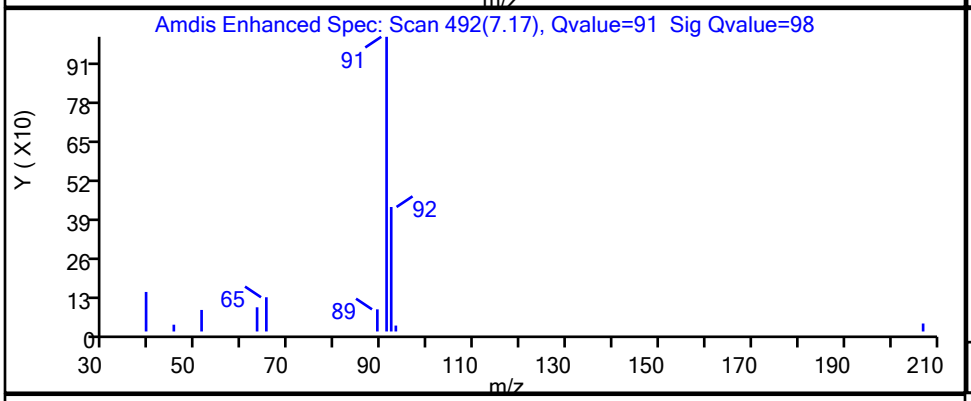
Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920974.d

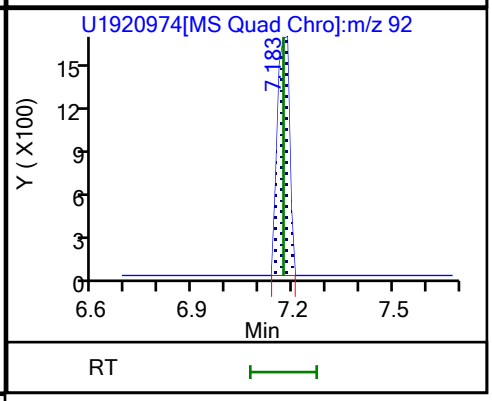
Injection Date:	16-Mar-2021 01:34:13	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-21	Lab Sample ID:	240-145599-21		
Client ID:	MSA-SW43A-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

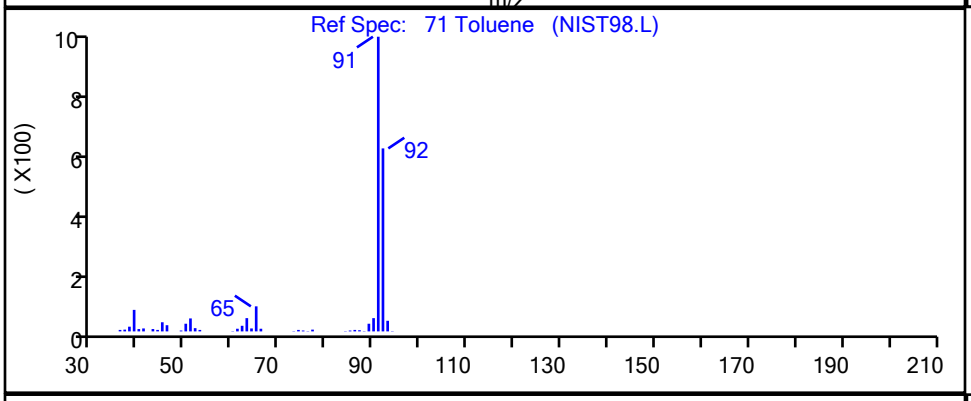
71 Toluene, CAS: 108-88-3

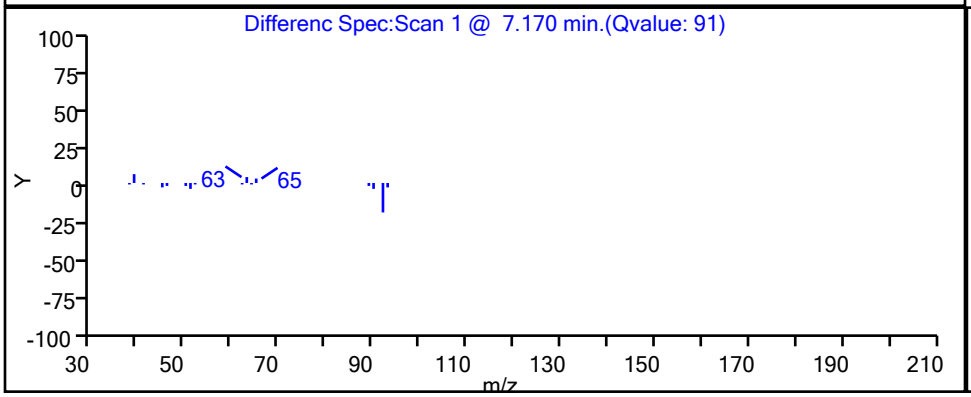


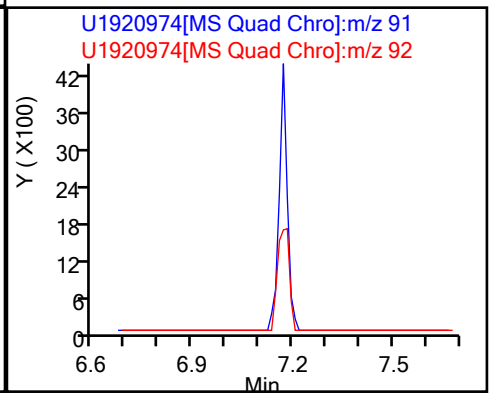












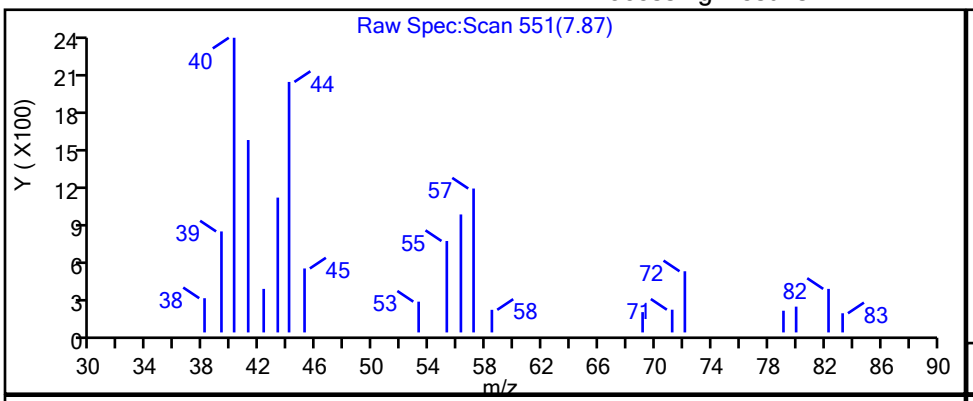
User Disabled Compound Report

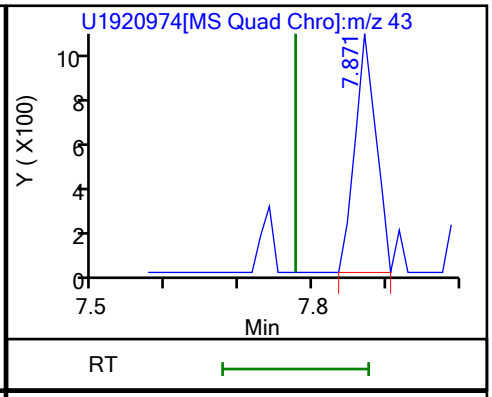
Eurofins TestAmerica, Canton

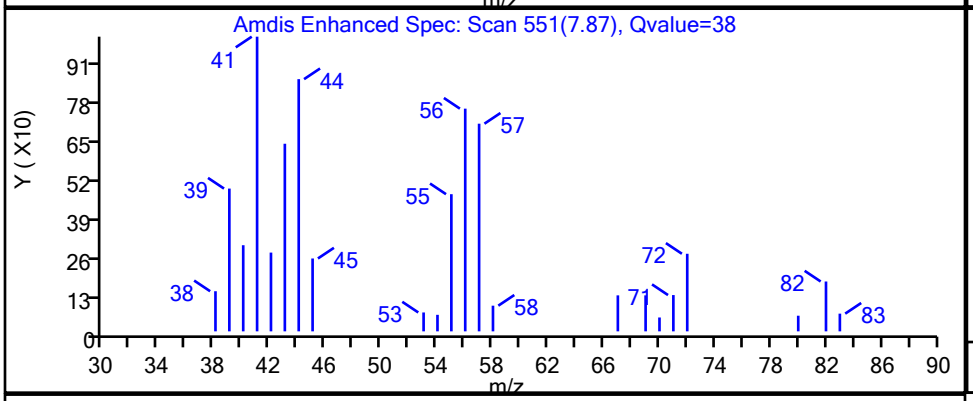
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920974.d				
Injection Date:	16-Mar-2021 01:34:13	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-21	Lab Sample ID:	240-145599-21		
Client ID:	MSA-SW43A-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

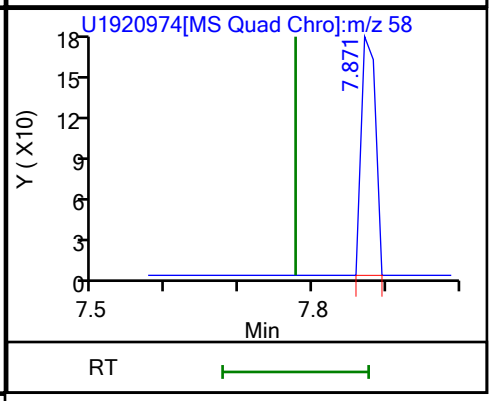
77 2-Hexanone, CAS: 591-78-6

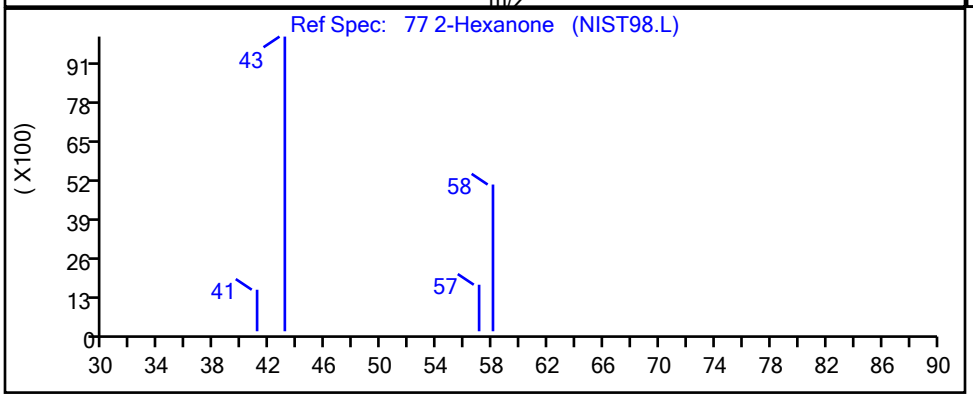
Processing Results











RT	Mass	Response	Amount
7.87	43.00	2115	0.196591
7.87	58.00	240	

Reviewer: laveyt, 16-Mar-2021 14:35:12

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43B-030821 Lab Sample ID: 240-145599-22

Matrix: Water Lab File ID: U1920975.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.16	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43B-030821 Lab Sample ID: 240-145599-22

Matrix: Water Lab File ID: U1920975.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.24	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.28	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.10	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43B-030821 Lab Sample ID: 240-145599-22

Matrix: Water Lab File ID: U1920975.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.24	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	114		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		75-130
2037-26-5	Toluene-d8 (Surr)	106		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43B-030821 Lab Sample ID: 240-145599-22

Matrix: Water Lab File ID: U1920975.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43B-030821 Lab Sample ID: 240-145599-22

Matrix: Water Lab File ID: U1920975.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920975.d
Lims ID: 240-145599-B-22
Client ID: MSA-SW43B-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 02:09:54 ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-019
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:36:01 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:36:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.666	5.666	0.000	99	815231	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	87	656507	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	97	309560	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.061	5.049	0.012	92	249323	22.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	97	309413	24.6	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	94	832145	21.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.686	9.686	0.000	86	292351	19.7	
9 Dichlorodifluoromethane	85		1.610				ND	
10 Chloromethane	50		1.811				ND	
12 Vinyl chloride	62	1.930	1.918	0.012	15	1842	0.1517	
13 Bromomethane	94		2.238				ND	7
15 Chloroethane	64		2.310				ND	
17 Trichlorofluoromethane	101		2.594				ND	
20 1,1-Dichloroethene	61		3.033				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	94	6781	2.12	
25 Carbon disulfide	76		3.246				ND	7
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.590	3.578	0.012	8	280	0.2537	
32 trans-1,2-Dichloroethene	61		3.733				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.148				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
42 2,2-Dichloropropane	77		4.634				ND	
41 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	78	1907	0.1618	
40 2-Butanone (MEK)	72		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.084				ND	
52 Carbon tetrachloride	117		5.239				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		5.239				ND	
54 Benzene	78		5.417				ND	7
55 1,2-Dichloroethane	62		5.428				ND	
56 Tert-amyl methyl ether	73		5.511				ND	
59 Trichloroethene	130		5.998				ND	
62 1,2-Dichloropropane	63		6.199				ND	
64 Dibromomethane	174		6.306				ND	
66 Dichlorobromomethane	83		6.436				ND	
68 2-Chloroethyl vinyl ether	63		6.697				ND	
69 cis-1,3-Dichloropropene	75		6.851				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
71 Toluene	91	7.172	7.172	0.000	99	12500	0.2817	
72 trans-1,3-Dichloropropene	75		7.361				ND	
75 Tetrachloroethene	166		7.705				ND	7
76 1,3-Dichloropropane	76		7.705				ND	
77 2-Hexanone	43		7.776				ND	U
79 Chlorodibromomethane	129		7.931				ND	
81 Ethylene Dibromide	107		8.049				ND	
83 Chlorobenzene	112		8.535				ND	7
84 1,1,1,2-Tetrachloroethane	131		8.606				ND	
85 Ethylbenzene	106		8.630				ND	7
86 m-Xylene & p-Xylene	106	8.749	8.749	0.000	95	4611	0.2385	
87 o-Xylene	106		9.152				ND	7
88 Styrene	104		9.164				ND	7
89 Bromoform	173		9.354				ND	
90 Isopropylbenzene	105		9.531				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.852				ND	
96 1,2,3-Trichloropropane	110		9.875				ND	
98 N-Propylbenzene	120		9.947				ND	
100 2-Chlorotoluene	126		10.041				ND	
102 4-Chlorotoluene	126		10.160				ND	
103 tert-Butylbenzene	119		10.480				ND	7
105 1,2,4-Trimethylbenzene	105	10.516	10.528	-0.012	92	3497	0.1001	
106 sec-Butylbenzene	105		10.705				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	7
108 4-Isopropyltoluene	119		10.860				ND	
109 1,4-Dichlorobenzene	146		10.919				ND	7
110 1,2,3-Trimethylbenzene	105		10.966				ND	7
112 n-Butylbenzene	91		11.287				ND	
113 1,2-Dichlorobenzene	146		11.310				ND	
114 1,2-Dibromo-3-Chloropropane	157		12.129				ND	
116 1,2,4-Trichlorobenzene	180		13.018				ND	7
117 Hexachlorobutadiene	225		13.208				ND	
118 Naphthalene	128		13.279				ND	7
119 1,2,3-Trichlorobenzene	180		13.540				ND	
S 128 Xylenes, Total	106				0		0.2385	
T 131 Chlorodifluoromethane TIC	51		1.640				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL	Run Reagent

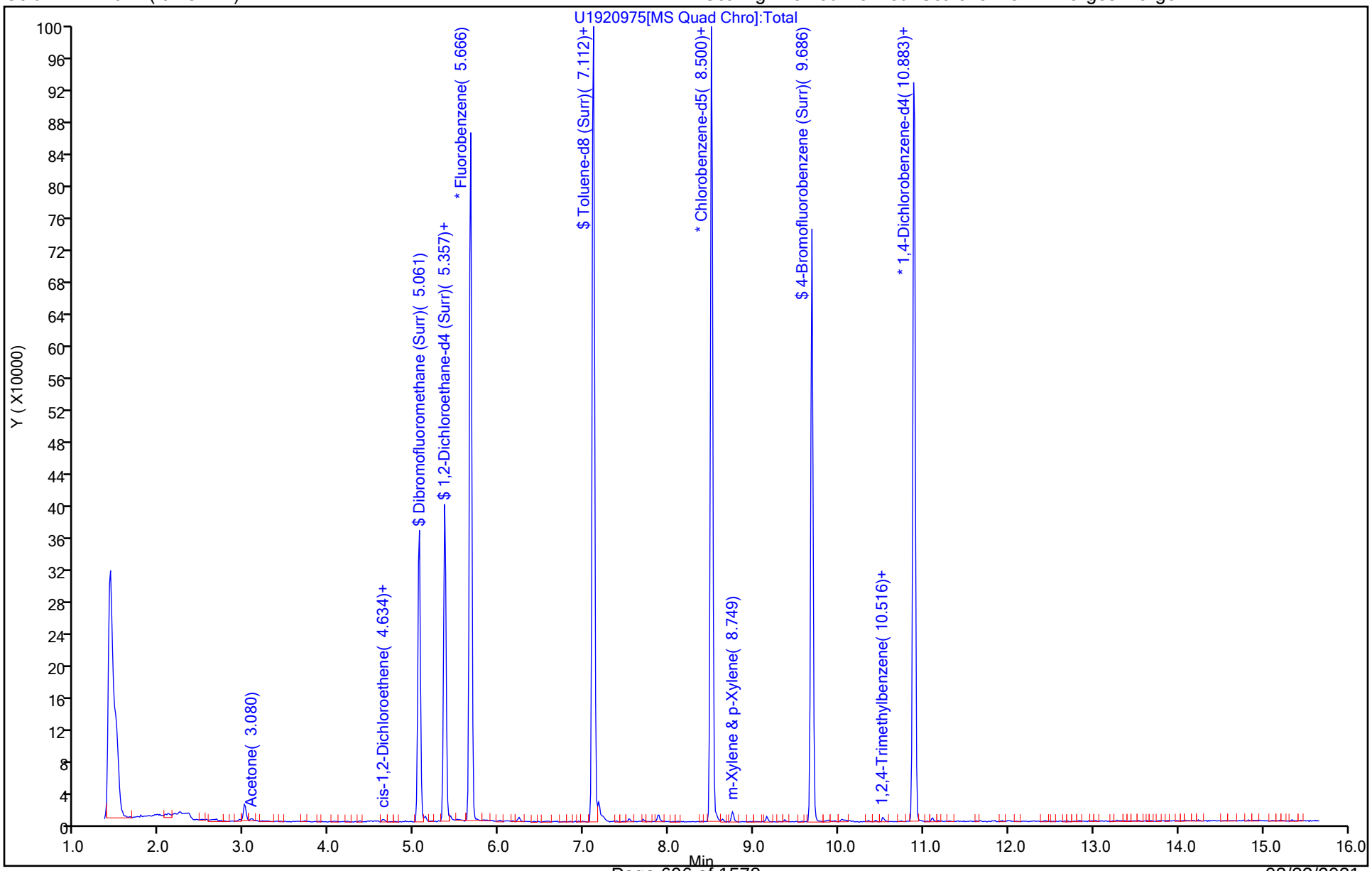
Report Date: 16-Mar-2021 14:36:02 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920975.d

Injection Date:	16-Mar-2021 02:09:54	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-145599-B-22	Lab Sample ID:	240-145599-22	Worklist Smp#:	19
Client ID:	MSA-SW43B-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920975.d
Lims ID: 240-145599-B-22
Client ID: MSA-SW43B-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 02:09:54 ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-019
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:36:01 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

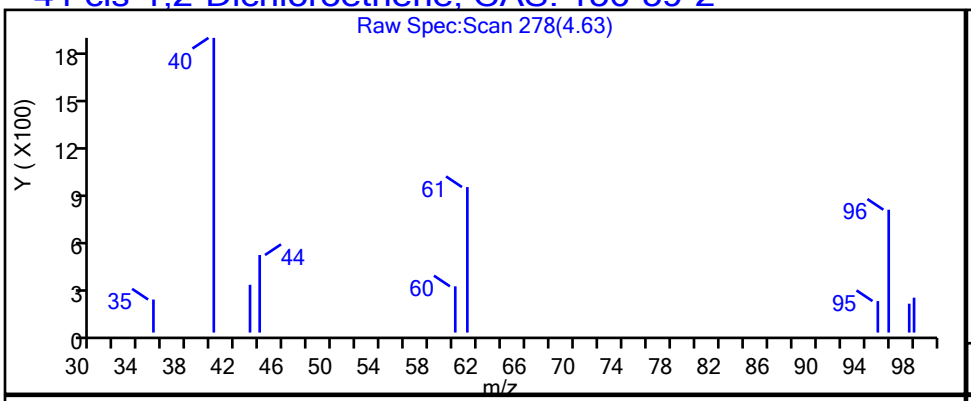
First Level Reviewer: laveyt Date: 16-Mar-2021 14:36:01

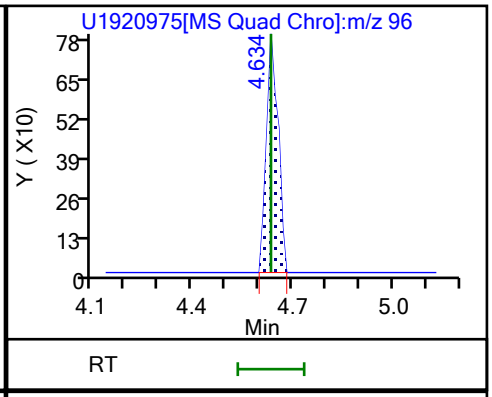
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.7	113.61
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	24.6	122.75
$ 6 Toluene-d8 (Surr)	20.0	21.1	105.69
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.7	98.68

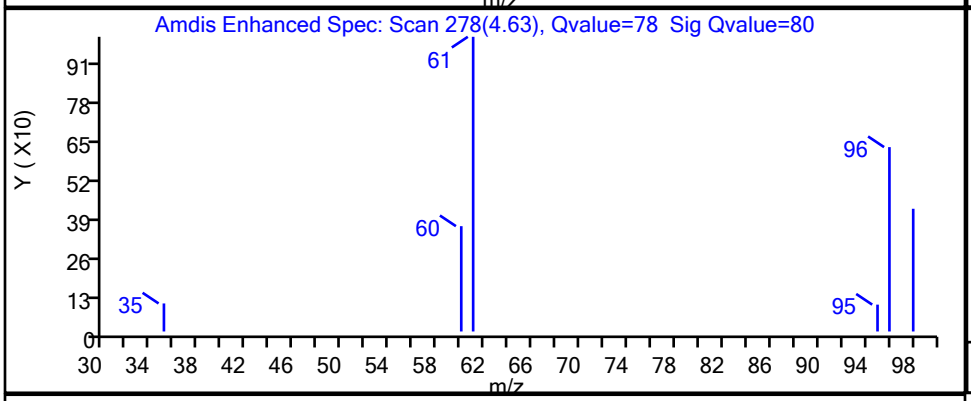
Eurofins TestAmerica, Canton

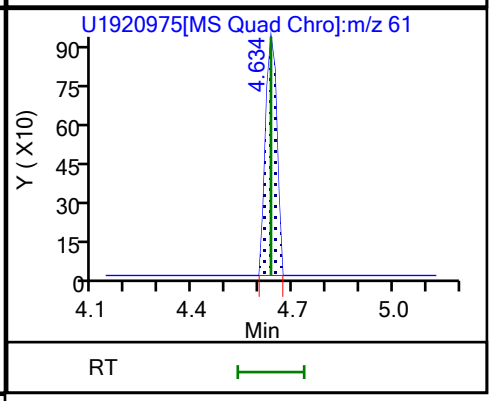
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920975.d		
Injection Date:	16-Mar-2021 02:09:54	Instrument ID:	A3UX19
Lims ID:	240-145599-B-22	Lab Sample ID:	240-145599-22
Client ID:	MSA-SW43B-030821		
Operator ID:	001904	ALS Bottle#:	0 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_19	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

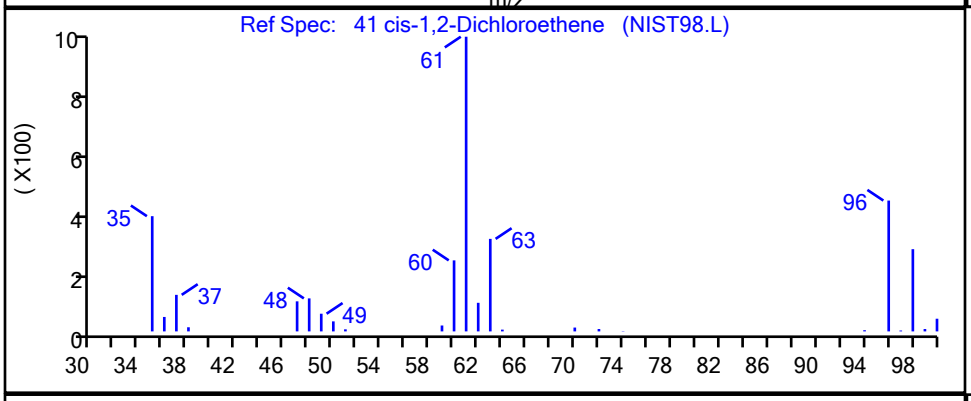
41 cis-1,2-Dichloroethene, CAS: 156-59-2

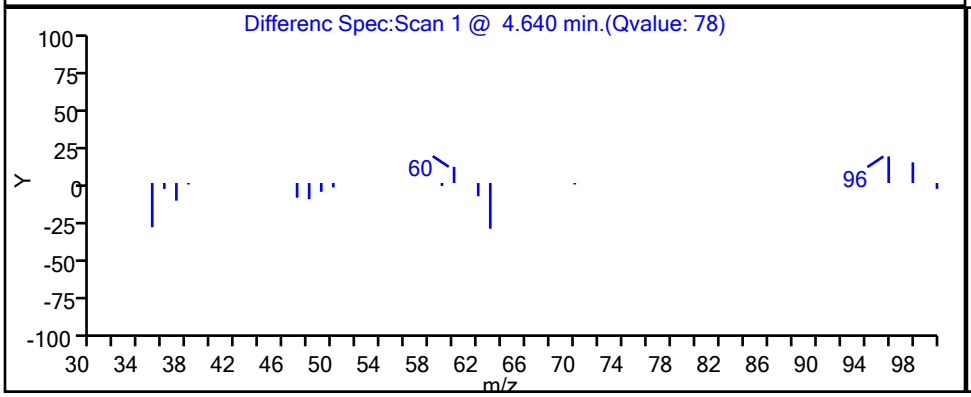


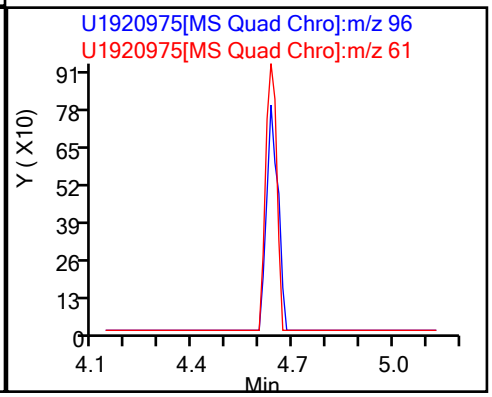








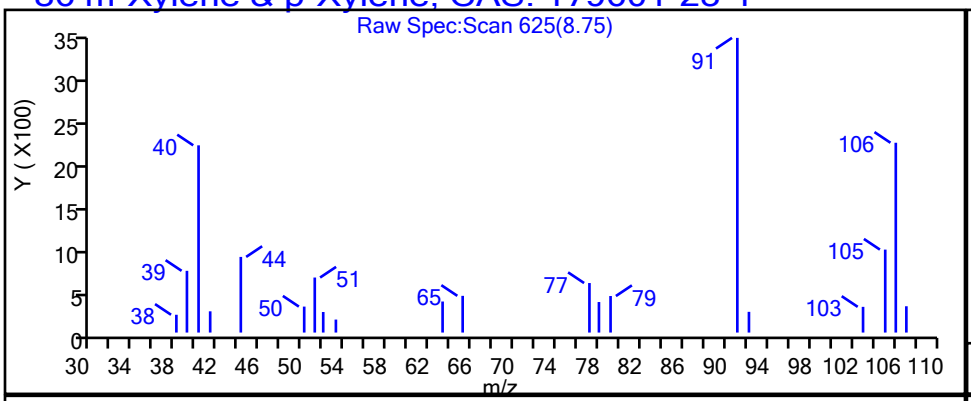


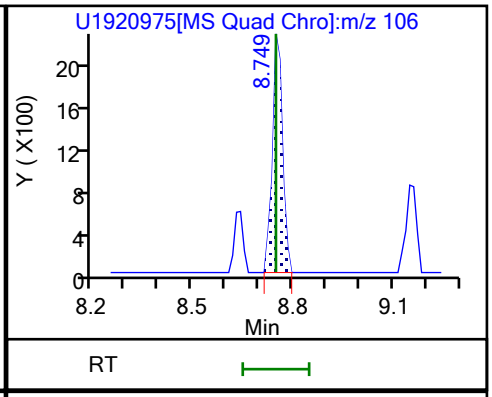


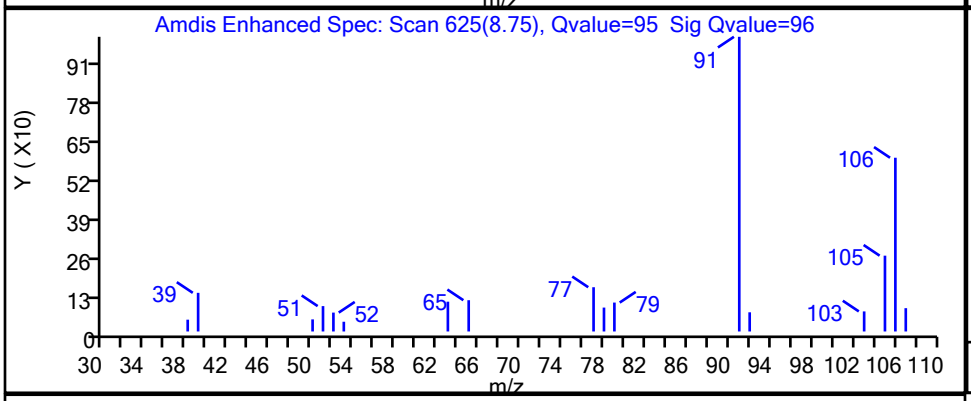
Eurofins TestAmerica, Canton

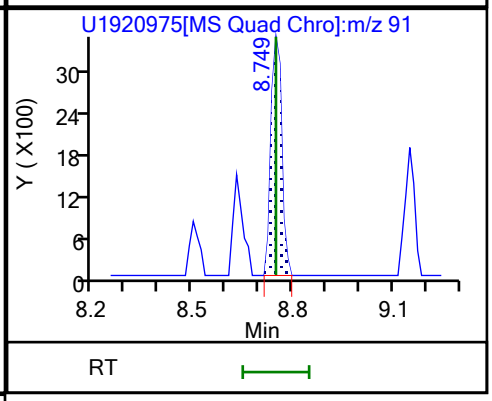
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920975.d		
Injection Date:	16-Mar-2021 02:09:54	Instrument ID:	A3UX19
Lims ID:	240-145599-B-22	Lab Sample ID:	240-145599-22
Client ID:	MSA-SW43B-030821		
Operator ID:	001904	ALS Bottle#:	0 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_19	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

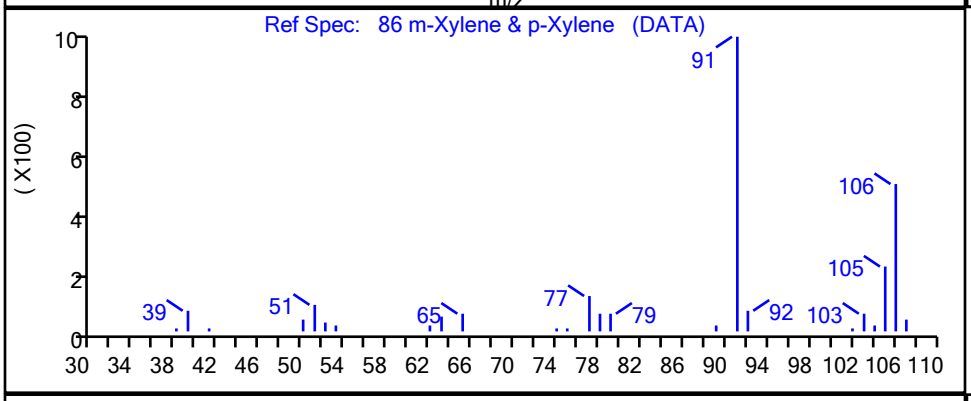
86 m-Xylene & p-Xylene, CAS: 179601-23-1

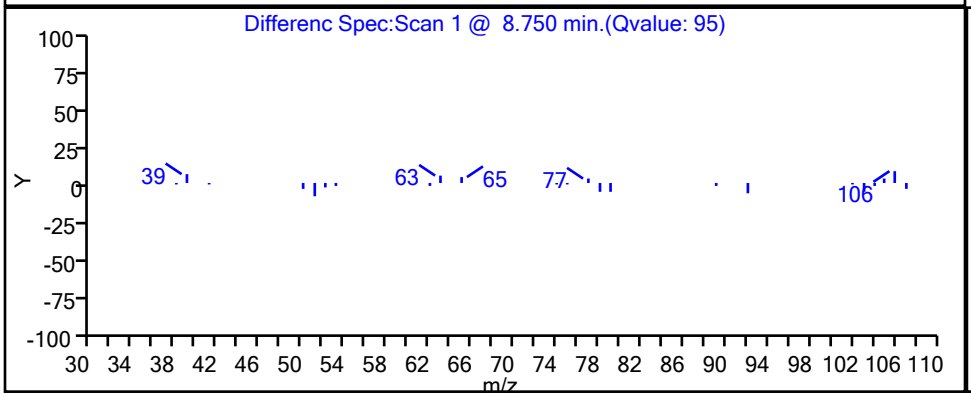


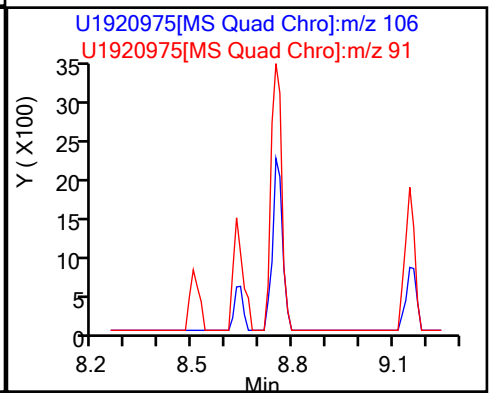








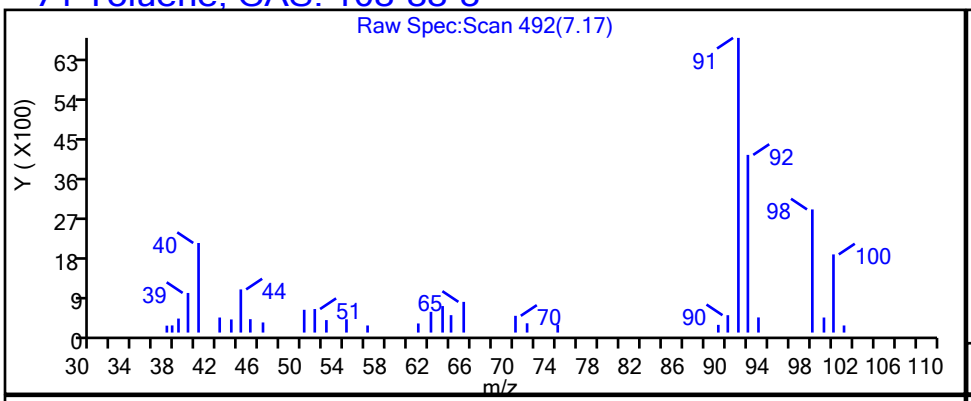


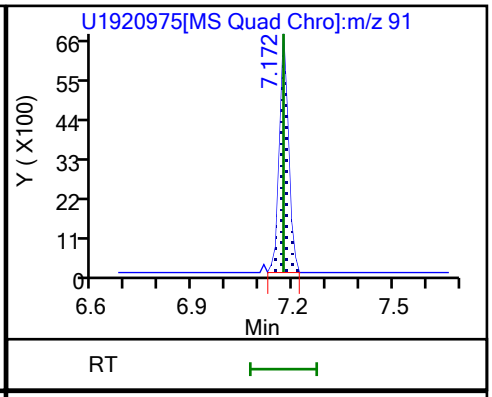


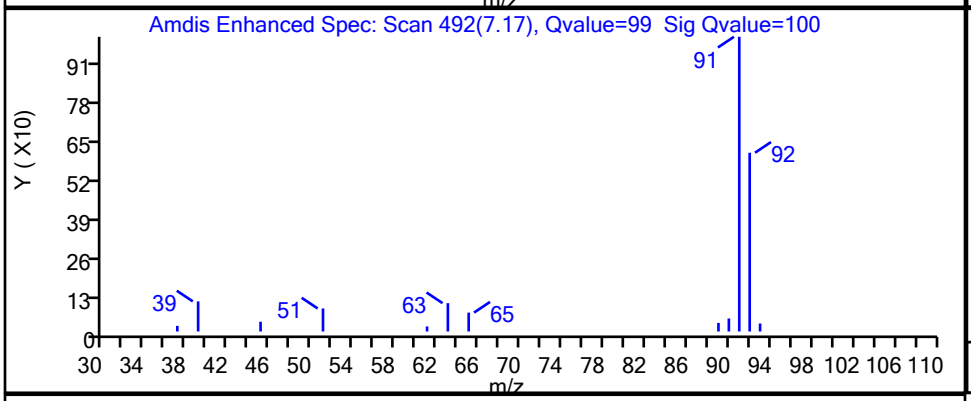
Eurofins TestAmerica, Canton

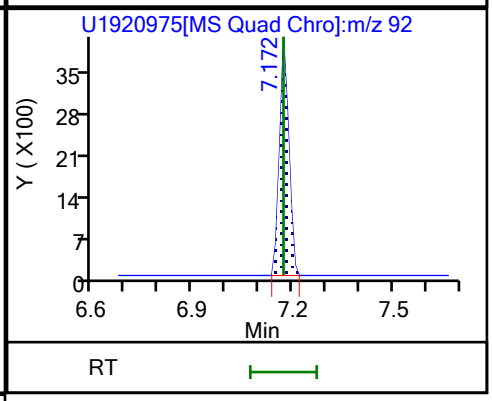
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920975.d		
Injection Date:	16-Mar-2021 02:09:54	Instrument ID:	A3UX19
Lims ID:	240-145599-B-22	Lab Sample ID:	240-145599-22
Client ID:	MSA-SW43B-030821		
Operator ID:	001904	ALS Bottle#:	0 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_19	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

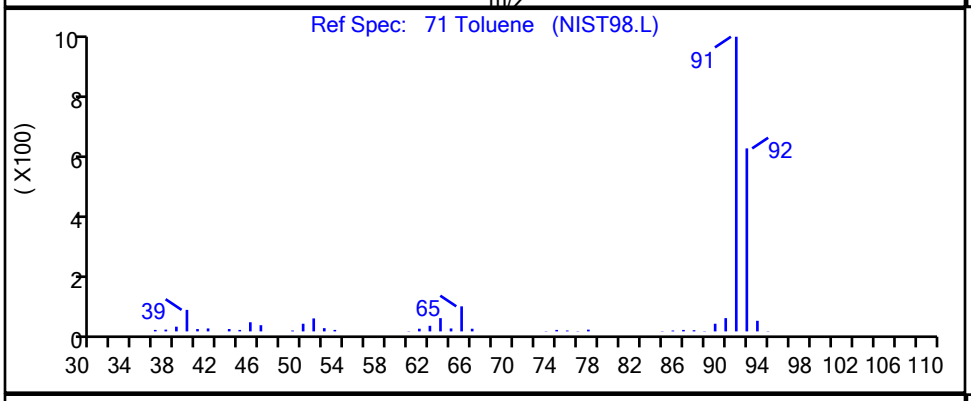
71 Toluene, CAS: 108-88-3

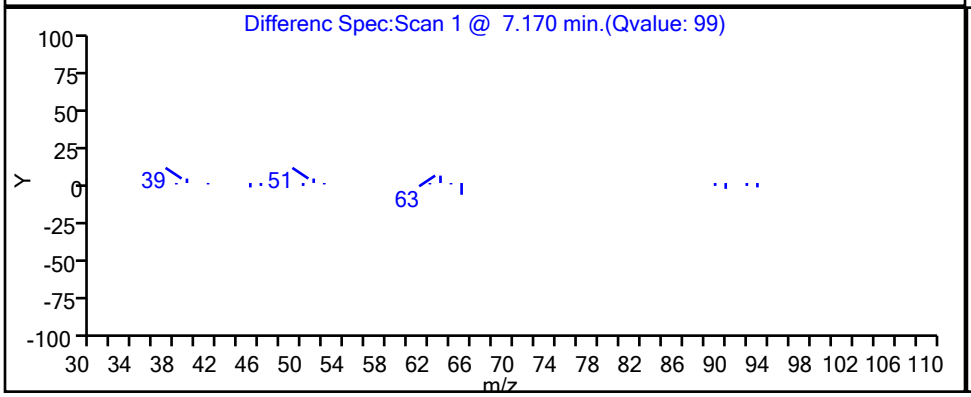


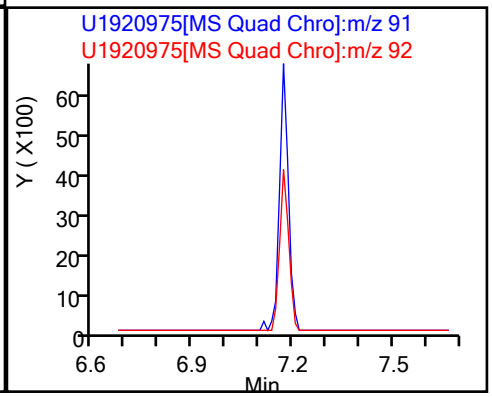








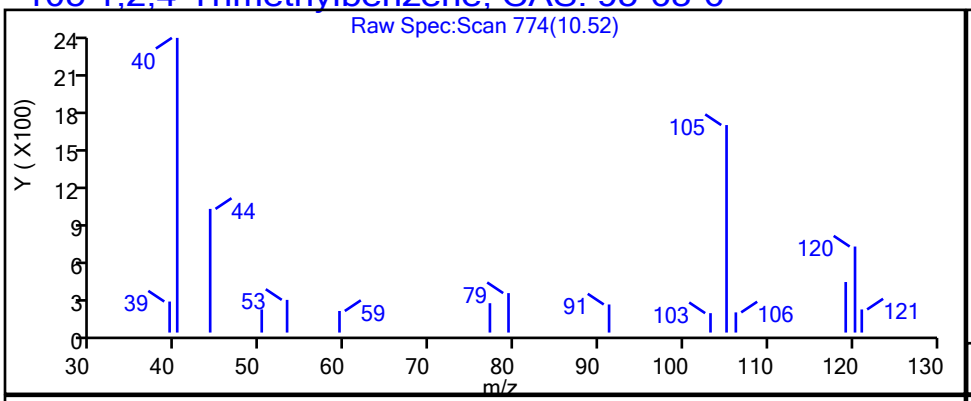


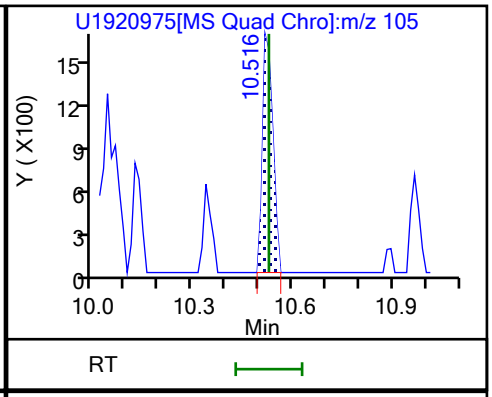


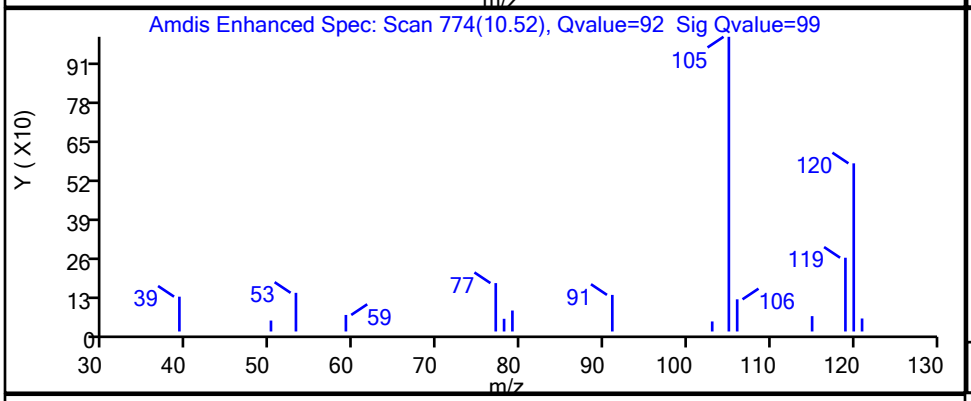
Eurofins TestAmerica, Canton

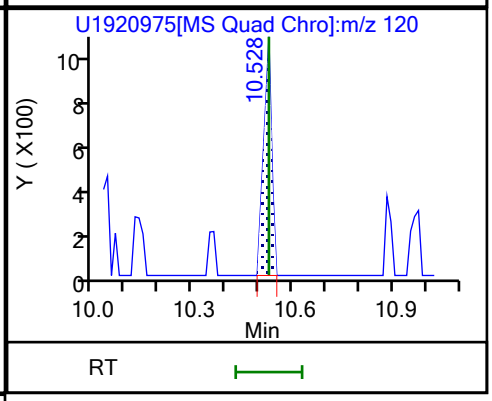
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920975.d		
Injection Date:	16-Mar-2021 02:09:54	Instrument ID:	A3UX19
Lims ID:	240-145599-B-22	Lab Sample ID:	240-145599-22
Client ID:	MSA-SW43B-030821		
Operator ID:	001904	ALS Bottle#:	0 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_19	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

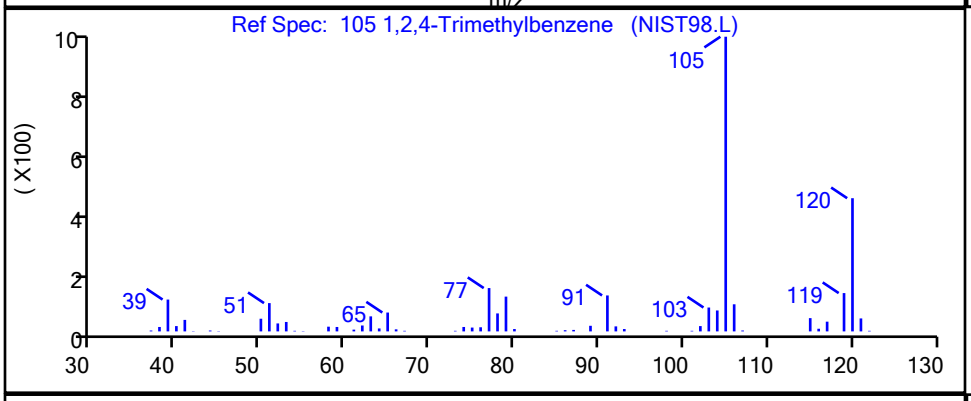
105 1,2,4-Trimethylbenzene, CAS: 95-63-6

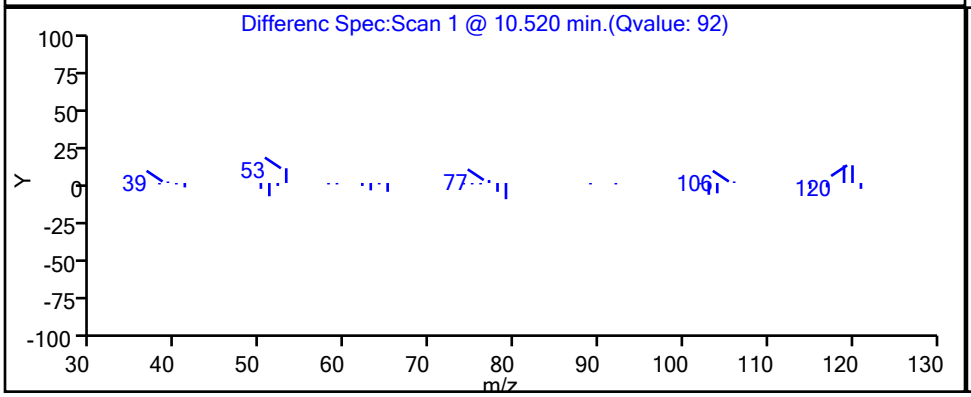


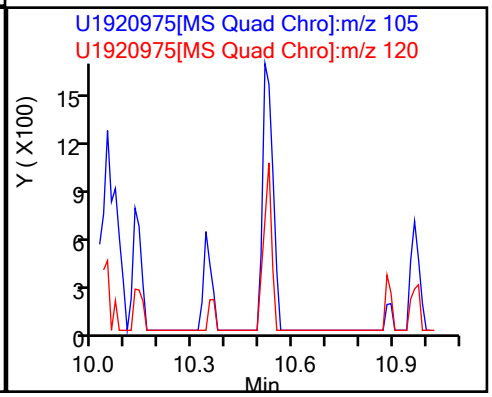












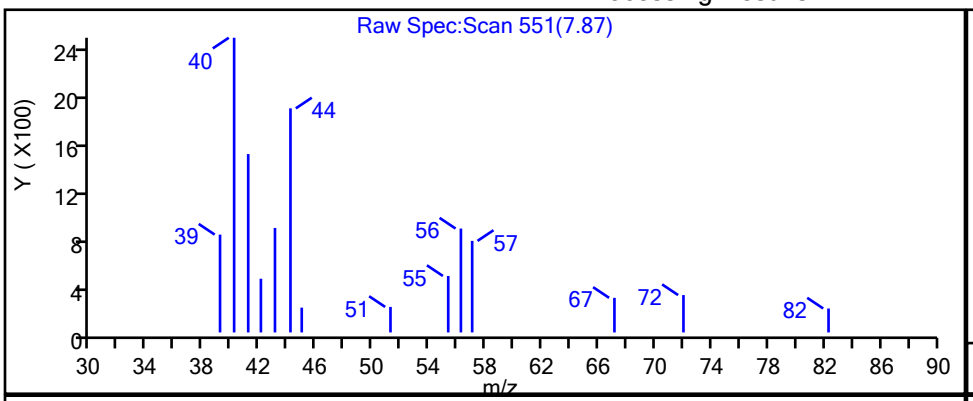
User Disabled Compound Report

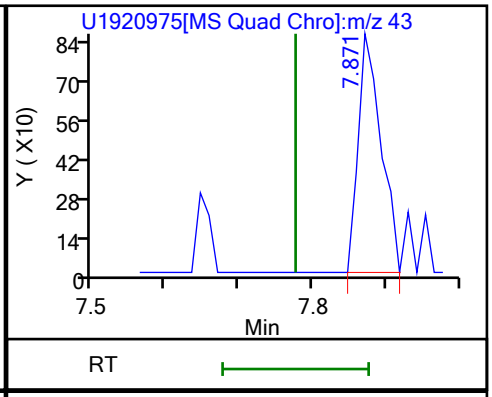
Eurofins TestAmerica, Canton

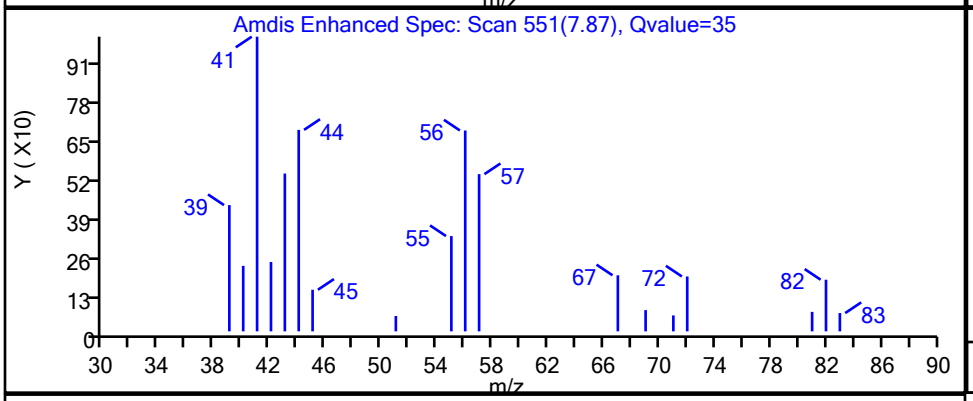
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920975.d				
Injection Date:	16-Mar-2021 02:09:54	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-22	Lab Sample ID:	240-145599-22		
Client ID:	MSA-SW43B-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

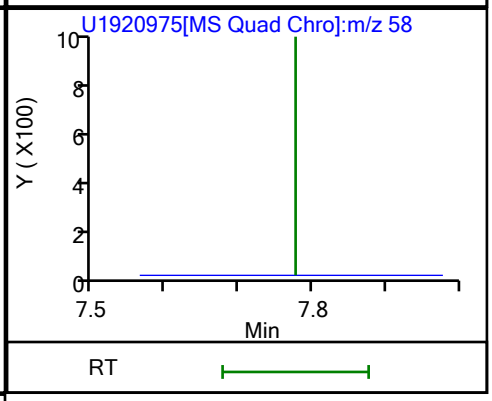
77 2-Hexanone, CAS: 591-78-6

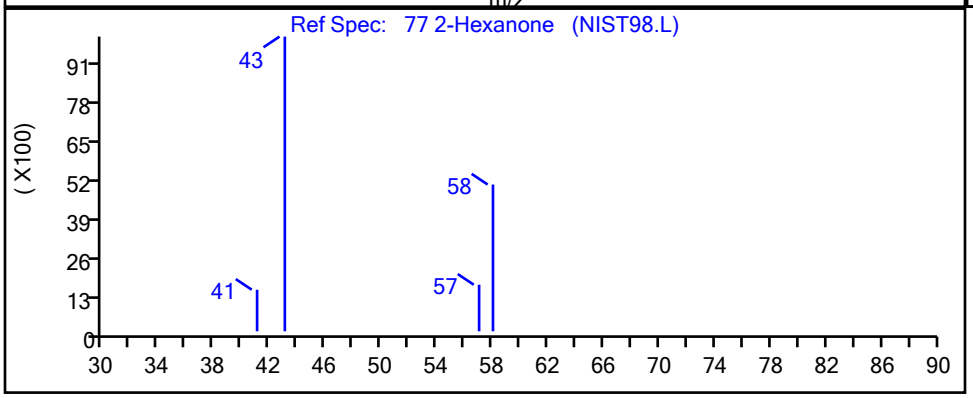
Processing Results











RT	Mass	Response	Amount
7.87	43.00	1873	0.181204
7.78	58.00	0	

Reviewer: laveyt, 16-Mar-2021 14:35:48

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43C-030821 Lab Sample ID: 240-145599-23

Matrix: Water Lab File ID: U1920976.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:19

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43C-030821 Lab Sample ID: 240-145599-23

Matrix: Water Lab File ID: U1920976.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:19

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.16	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.23	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43C-030821 Lab Sample ID: 240-145599-23

Matrix: Water Lab File ID: U1920976.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:19

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.16	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	112		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	125		75-130
2037-26-5	Toluene-d8 (Surr)	105		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43C-030821 Lab Sample ID: 240-145599-23

Matrix: Water Lab File ID: U1920976.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:19

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43C-030821 Lab Sample ID: 240-145599-23

Matrix: Water Lab File ID: U1920976.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:19

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 02:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920976.d
Lims ID: 240-145599-B-23
Client ID: MSA-SW43C-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 02:36:44 ALS Bottle#: 0 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-020
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:36:32 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:36:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.665	5.666	-0.001	98	815840	20.0	
* 2 Chlorobenzene-d5	117	8.499	8.500	-0.001	87	661648	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	97	319764	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.049	5.049	0.000	93	247031	22.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	97	314730	25.0	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	832849	21.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.685	9.686	-0.001	85	302844	20.3	
9 Dichlorodifluoromethane	85		1.610				ND	
10 Chloromethane	50		1.811				ND	
12 Vinyl chloride	62	1.918	1.918	0.000	17	2032	0.1672	
13 Bromomethane	94		2.238				ND	7
15 Chloroethane	64		2.310				ND	
17 Trichlorofluoromethane	101		2.594				ND	
20 1,1-Dichloroethene	61		3.033				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	97	7121	2.23	
25 Carbon disulfide	76		3.246				ND	7
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.590	3.578	0.012	8	332	0.3005	
32 trans-1,2-Dichloroethene	61		3.733				ND	
33 Methyl tert-butyl ether	73		3.744				ND	7
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.148				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
42 2,2-Dichloropropane	77		4.634				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	7
40 2-Butanone (MEK)	72		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.084				ND	
52 Carbon tetrachloride	117		5.239				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		5.239				ND	
54 Benzene	78		5.417				ND	7
55 1,2-Dichloroethane	62		5.428				ND	7
56 Tert-amyl methyl ether	73		5.511				ND	
59 Trichloroethene	130		5.998				ND	
62 1,2-Dichloropropane	63		6.199				ND	
64 Dibromomethane	174		6.306				ND	
66 Dichlorobromomethane	83		6.436				ND	
68 2-Chloroethyl vinyl ether	63		6.697				ND	
69 cis-1,3-Dichloropropene	75		6.851				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
71 Toluene	91	7.171	7.172	-0.001	97	10316	0.2307	
72 trans-1,3-Dichloropropene	75		7.361				ND	
75 Tetrachloroethene	166		7.705				ND	7
76 1,3-Dichloropropane	76		7.705				ND	
77 2-Hexanone	43		7.776				ND	U
79 Chlorodibromomethane	129		7.931				ND	
81 Ethylene Dibromide	107		8.049				ND	
83 Chlorobenzene	112		8.535				ND	
84 1,1,1,2-Tetrachloroethane	131		8.606				ND	
85 Ethylbenzene	106		8.630				ND	7
86 m-Xylene & p-Xylene	106	8.748	8.749	-0.001	96	3146	0.1614	
87 o-Xylene	106		9.152				ND	7
88 Styrene	104		9.164				ND	
89 Bromoform	173		9.354				ND	
90 Isopropylbenzene	105		9.531				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.852				ND	
96 1,2,3-Trichloropropane	110		9.875				ND	
98 N-Propylbenzene	120		9.947				ND	7
100 2-Chlorotoluene	126		10.041				ND	
102 4-Chlorotoluene	126		10.160				ND	
103 tert-Butylbenzene	119		10.480				ND	7
105 1,2,4-Trimethylbenzene	105		10.528				ND	7
106 sec-Butylbenzene	105		10.705				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	7
108 4-Isopropyltoluene	119		10.860				ND	
109 1,4-Dichlorobenzene	146		10.919				ND	7
110 1,2,3-Trimethylbenzene	105		10.966				ND	
112 n-Butylbenzene	91		11.287				ND	
113 1,2-Dichlorobenzene	146		11.310				ND	
114 1,2-Dibromo-3-Chloropropane	157		12.129				ND	
116 1,2,4-Trichlorobenzene	180		13.018				ND	
117 Hexachlorobutadiene	225		13.208				ND	
118 Naphthalene	128		13.279				ND	7
119 1,2,3-Trichlorobenzene	180		13.540				ND	7
S 128 Xylenes, Total	106				0		0.1614	
T 131 Chlorodifluoromethane TIC	51		1.640				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL	Run Reagent

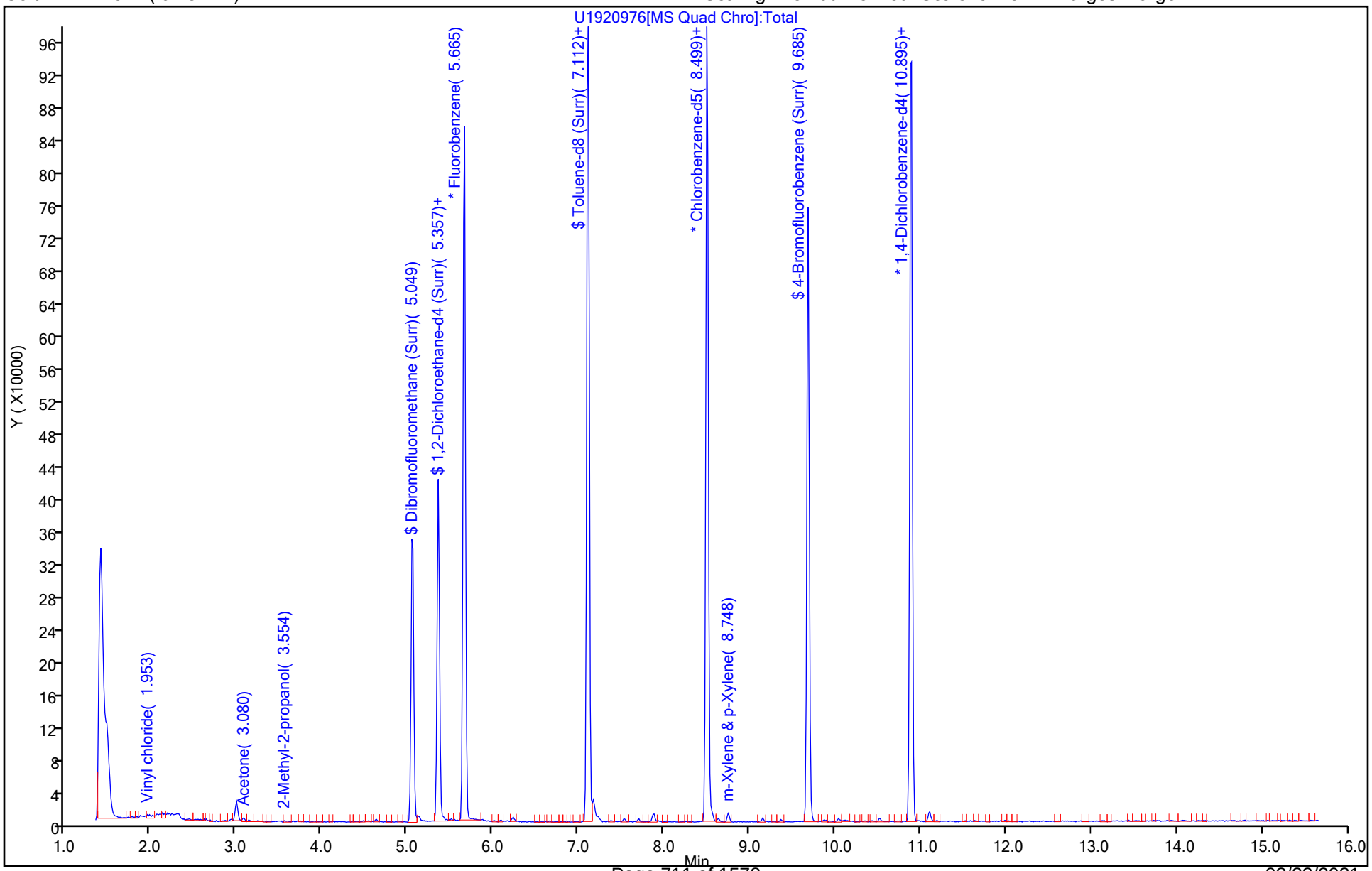
Report Date: 16-Mar-2021 14:36:32 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920976.d

Injection Date:	16-Mar-2021 02:36:44	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-145599-B-23	Lab Sample ID:	240-145599-23	Worklist Smp#:	20
Client ID:	MSA-SW43C-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920976.d
Lims ID: 240-145599-B-23
Client ID: MSA-SW43C-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 02:36:44 ALS Bottle#: 0 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-020
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:36:32 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:36:32

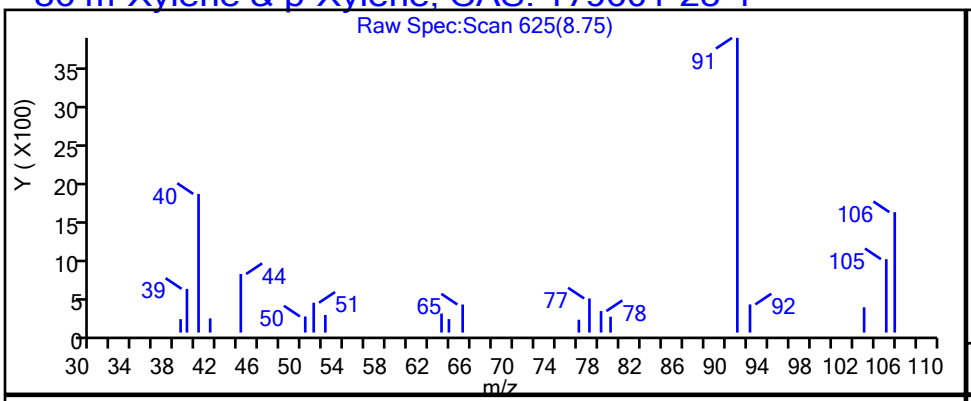
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.5	112.48
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	25.0	124.77
$ 6 Toluene-d8 (Surr)	20.0	21.0	104.96
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.3	101.42

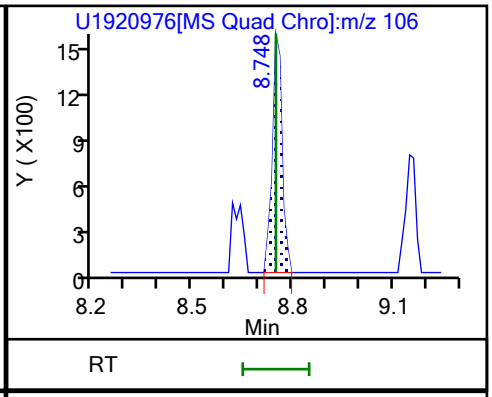
Report Date: 16-Mar-2021 14:36:32 Chrom Revision: 2.3 05-Feb-2021 00:13:28

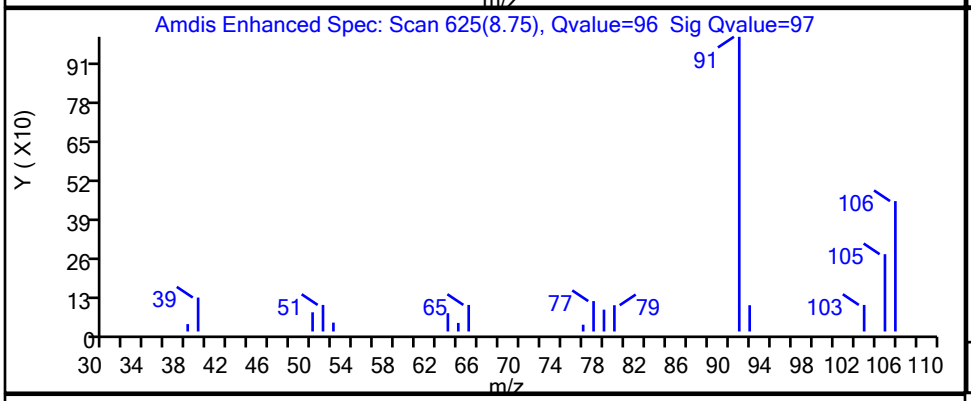
Eurofins TestAmerica, Canton

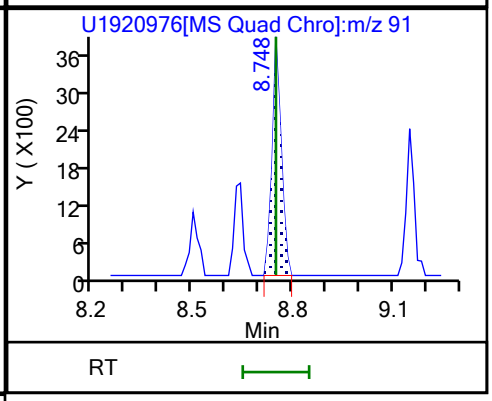
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920976.d				
Injection Date:	16-Mar-2021 02:36:44	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-23	Lab Sample ID:	240-145599-23		
Client ID:	MSA-SW43C-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

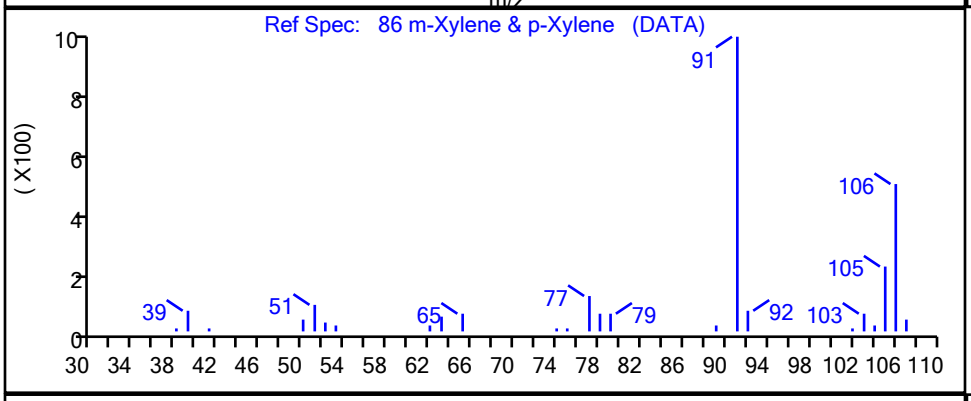
86 m-Xylene & p-Xylene, CAS: 179601-23-1

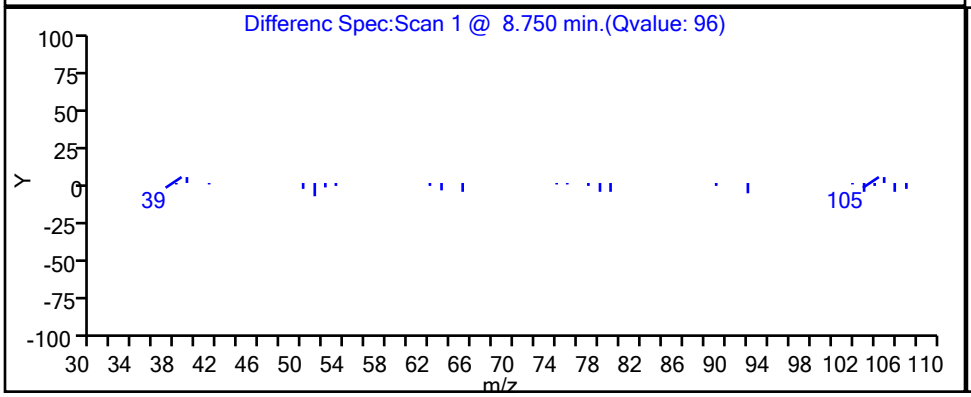


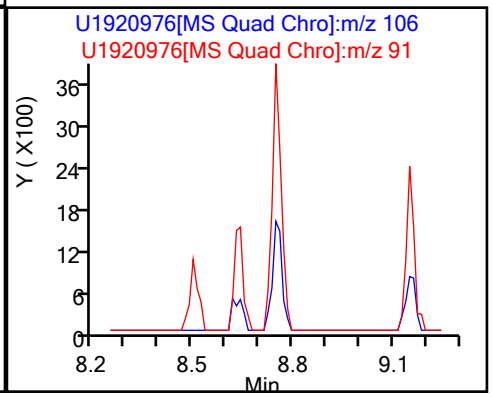












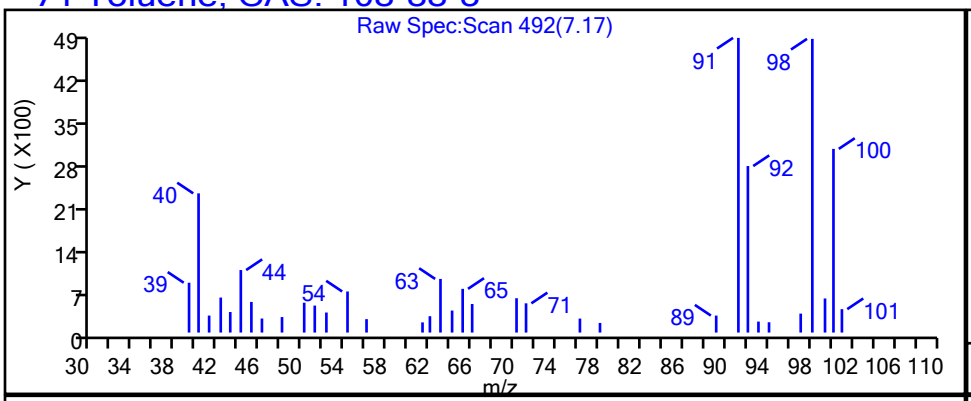
Report Date: 16-Mar-2021 14:36:32 Chrom Revision: 2.3 05-Feb-2021 00:13:28

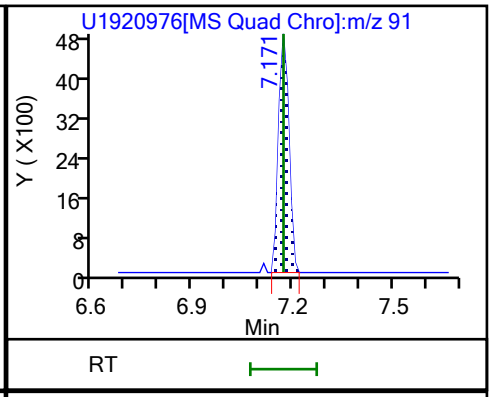
Eurofins TestAmerica, Canton

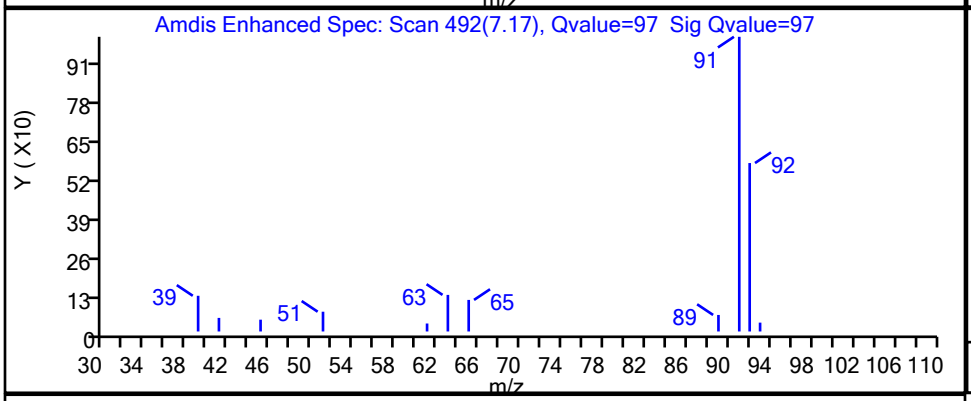
Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920976.d

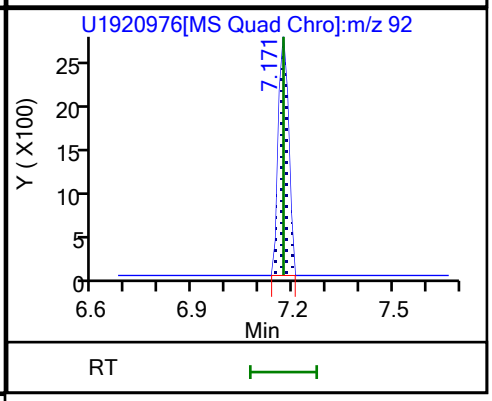
Injection Date:	16-Mar-2021 02:36:44	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-23	Lab Sample ID:	240-145599-23		
Client ID:	MSA-SW43C-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

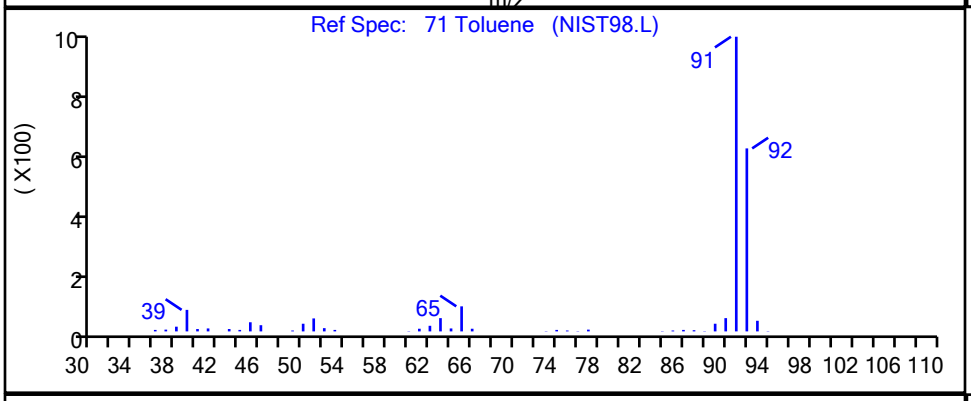
71 Toluene, CAS: 108-88-3

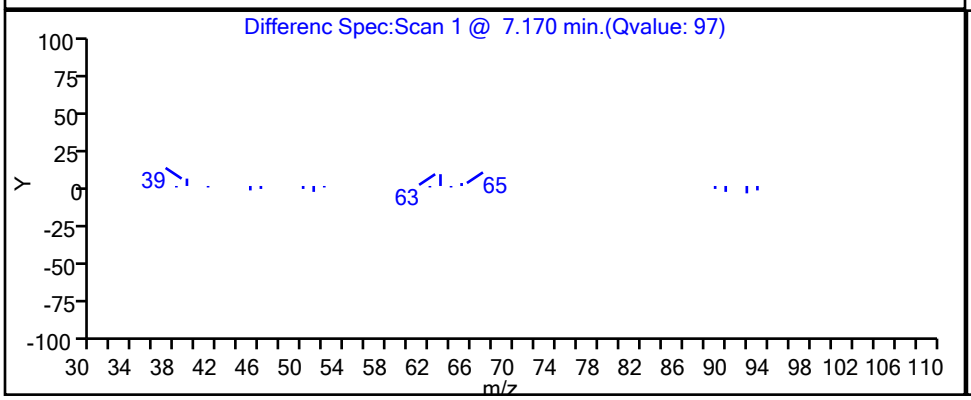


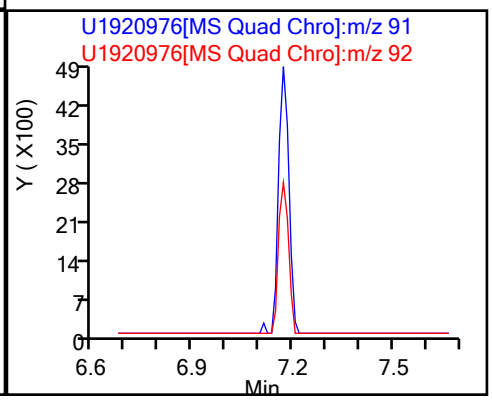












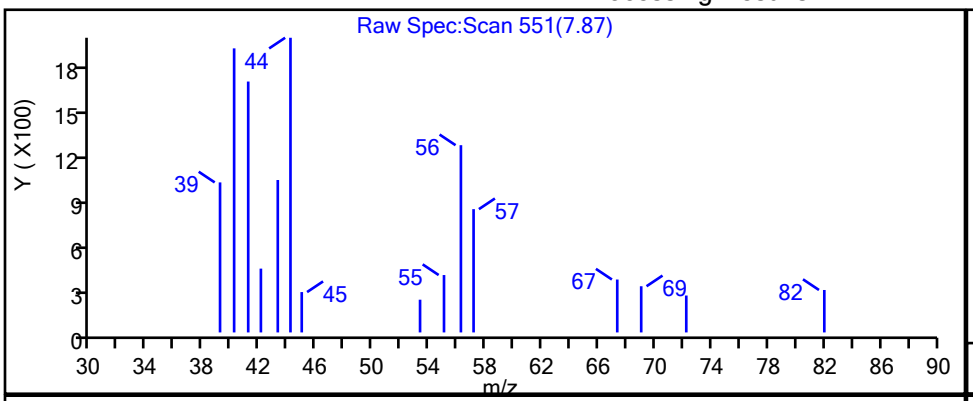
User Disabled Compound Report

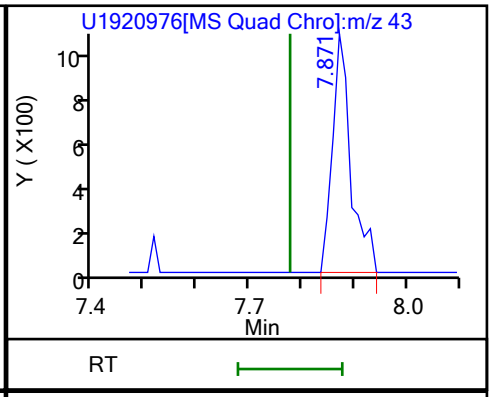
Eurofins TestAmerica, Canton

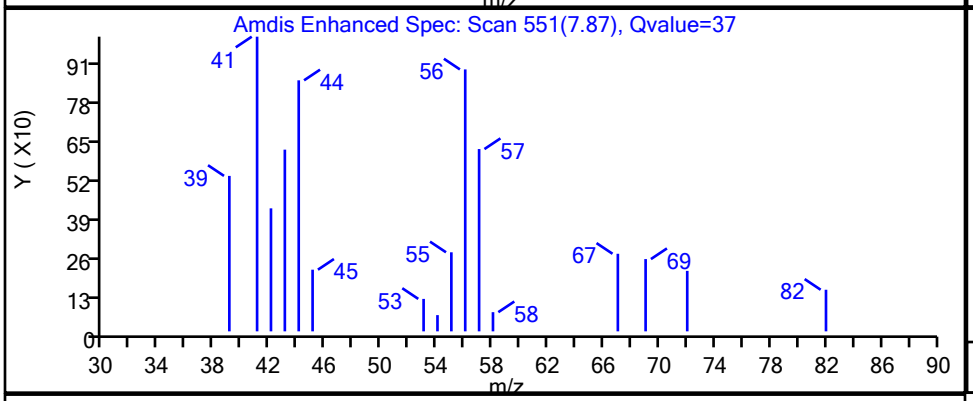
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920976.d				
Injection Date:	16-Mar-2021 02:36:44	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-23	Lab Sample ID:	240-145599-23		
Client ID:	MSA-SW43C-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

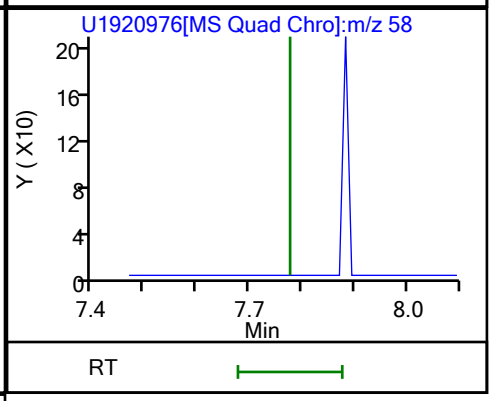
77 2-Hexanone, CAS: 591-78-6

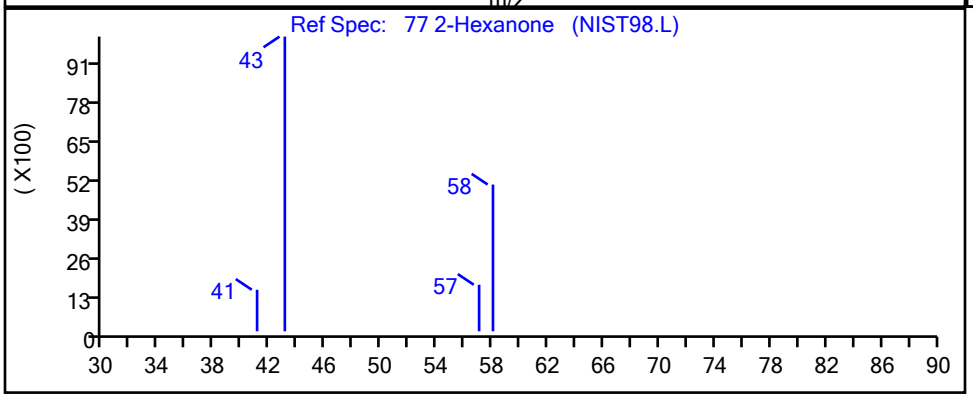
Processing Results











RT	Mass	Response	Amount
7.87	43.00	2515	0.241424
7.78	58.00	0	

Reviewer: laveyt, 16-Mar-2021 14:36:23

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43D-030821 Lab Sample ID: 240-145599-24

Matrix: Water Lab File ID: U1920977.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:23

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43D-030821 Lab Sample ID: 240-145599-24

Matrix: Water Lab File ID: U1920977.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:23

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.17	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.24	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.11	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43D-030821 Lab Sample ID: 240-145599-24

Matrix: Water Lab File ID: U1920977.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:23

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.17	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	113		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	126		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43D-030821 Lab Sample ID: 240-145599-24

Matrix: Water Lab File ID: U1920977.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:23

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW43D-030821 Lab Sample ID: 240-145599-24

Matrix: Water Lab File ID: U1920977.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:23

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920977.d
Lims ID: 240-145599-B-24
Client ID: MSA-SW43D-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 03:06:38 ALS Bottle#: 0 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-021
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:38:01 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:38:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.665	5.666	-0.001	98	798698	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	87	665875	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	97	318035	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.061	5.049	0.012	93	243835	22.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	97	310141	25.1	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	94	823710	20.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.686	9.686	0.000	86	296736	19.7	
9 Dichlorodifluoromethane	85		1.610				ND	
10 Chloromethane	50		1.811				ND	
12 Vinyl chloride	62	1.918	1.918	0.000	1	1635	0.1374	
13 Bromomethane	94		2.238				ND	
15 Chloroethane	64		2.310				ND	
17 Trichlorofluoromethane	101		2.594				ND	
20 1,1-Dichloroethene	61		3.033				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.069				ND	
22 Acetone	43	3.092	3.080	0.012	94	7442	2.38	
25 Carbon disulfide	76		3.246				ND	7
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.590	3.578	0.012	11	406	0.3754	
32 trans-1,2-Dichloroethene	61		3.733				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.148				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
42 2,2-Dichloropropane	77		4.634				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	7
40 2-Butanone (MEK)	72		4.634				ND	7
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.084				ND	
52 Carbon tetrachloride	117		5.239				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		5.239				ND	
54 Benzene	78		5.417				ND	
55 1,2-Dichloroethane	62		5.428				ND	
56 Tert-amyl methyl ether	73		5.511				ND	
59 Trichloroethene	130		5.998				ND	
62 1,2-Dichloropropane	63		6.199				ND	
64 Dibromomethane	174		6.306				ND	
66 Dichlorobromomethane	83		6.436				ND	
68 2-Chloroethyl vinyl ether	63		6.697				ND	
69 cis-1,3-Dichloropropene	75		6.851				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
71 Toluene	91	7.172	7.172	0.000	99	10862	0.2414	
72 trans-1,3-Dichloropropene	75		7.361				ND	
75 Tetrachloroethene	166		7.705				ND	7
76 1,3-Dichloropropane	76		7.705				ND	
77 2-Hexanone	43		7.776				ND	U
79 Chlorodibromomethane	129		7.931				ND	
81 Ethylene Dibromide	107		8.049				ND	
83 Chlorobenzene	112		8.535				ND	
84 1,1,1,2-Tetrachloroethane	131		8.606				ND	
85 Ethylbenzene	106		8.630				ND	7
86 m-Xylene & p-Xylene	106	8.761	8.749	0.012	95	3282	0.1674	
87 o-Xylene	106		9.152				ND	7
88 Styrene	104		9.164				ND	
89 Bromoform	173		9.354				ND	
90 Isopropylbenzene	105		9.531				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.852				ND	
96 1,2,3-Trichloropropane	110		9.875				ND	
98 N-Propylbenzene	120		9.947				ND	U
100 2-Chlorotoluene	126		10.041				ND	
102 4-Chlorotoluene	126		10.160				ND	
103 tert-Butylbenzene	119		10.480				ND	7
105 1,2,4-Trimethylbenzene	105	10.527	10.528	-0.001	92	3801	0.1059	
106 sec-Butylbenzene	105		10.705				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	7
108 4-Isopropyltoluene	119		10.860				ND	
109 1,4-Dichlorobenzene	146		10.919				ND	7
110 1,2,3-Trimethylbenzene	105		10.966				ND	
112 n-Butylbenzene	91		11.287				ND	
113 1,2-Dichlorobenzene	146		11.310				ND	
114 1,2-Dibromo-3-Chloropropane	157		12.129				ND	
116 1,2,4-Trichlorobenzene	180		13.018				ND	
117 Hexachlorobutadiene	225		13.208				ND	
118 Naphthalene	128		13.279				ND	7
119 1,2,3-Trichlorobenzene	180		13.540				ND	
S 128 Xylenes, Total	106				0		0.1674	
T 131 Chlorodifluoromethane TIC	51		1.640				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL	Run Reagent

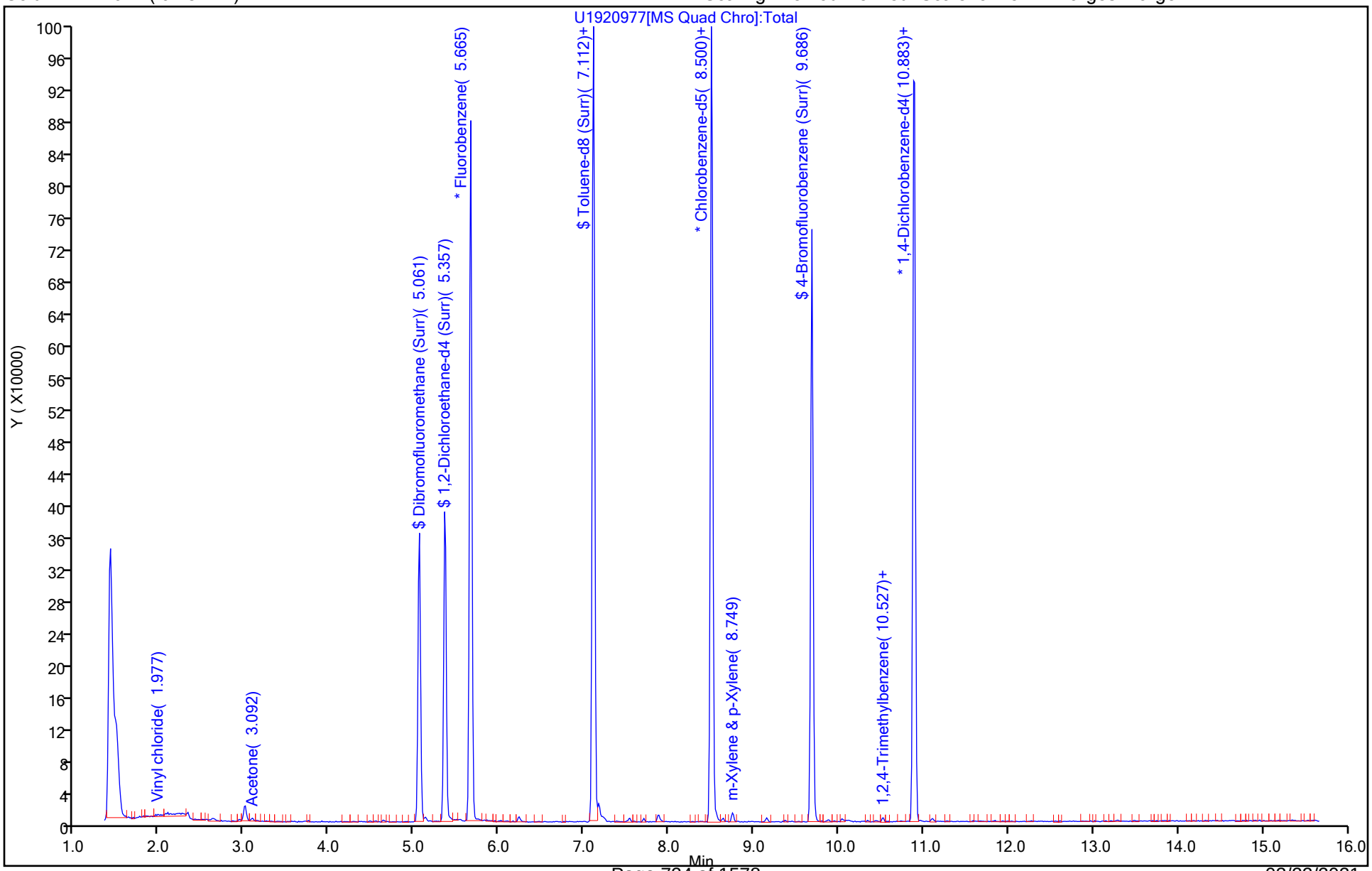
Report Date: 16-Mar-2021 14:38:01 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920977.d

Injection Date:	16-Mar-2021 03:06:38	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-145599-B-24	Lab Sample ID:	240-145599-24	Worklist Smp#:	21
Client ID:	MSA-SW43D-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920977.d
Lims ID: 240-145599-B-24
Client ID: MSA-SW43D-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 03:06:38 ALS Bottle#: 0 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-021
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:38:01 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

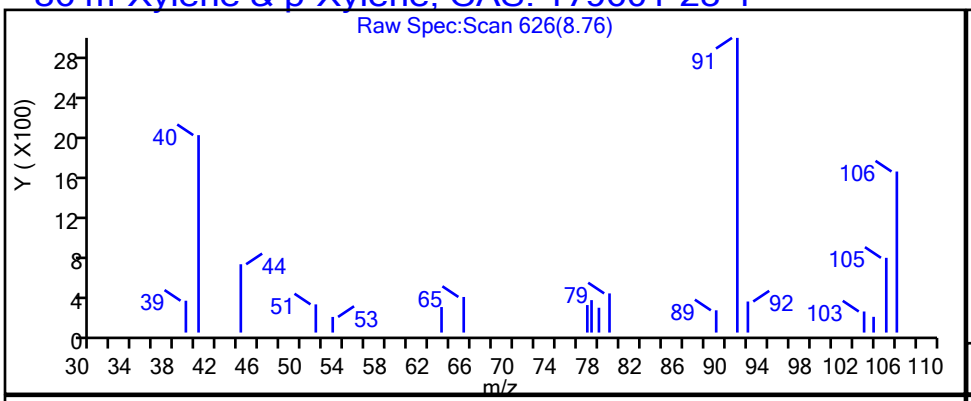
First Level Reviewer: laveyt Date: 16-Mar-2021 14:38:01

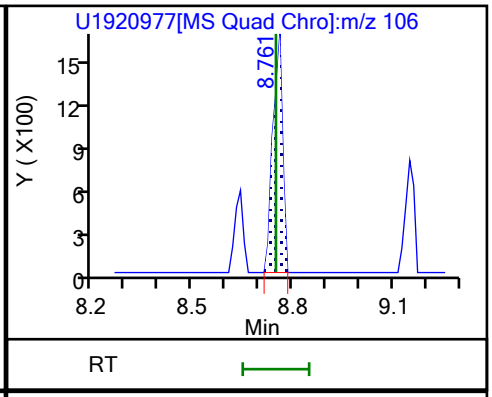
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.7	113.41
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	25.1	125.59
$ 6 Toluene-d8 (Surr)	20.0	20.6	103.15
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.7	98.75

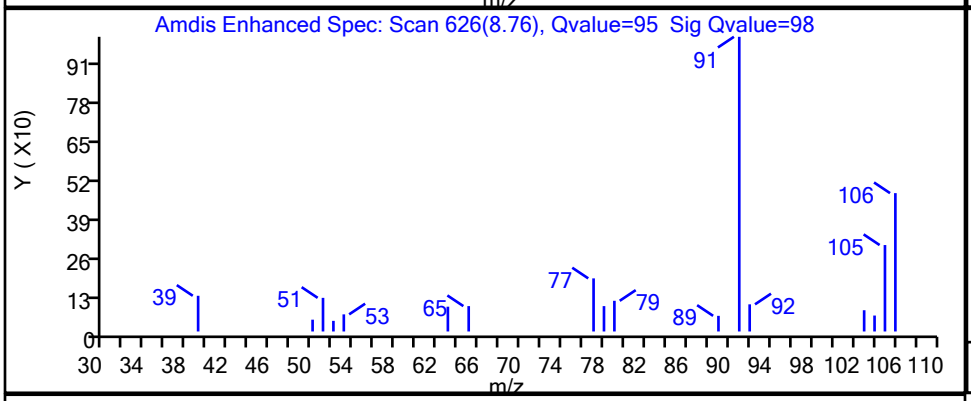
Eurofins TestAmerica, Canton

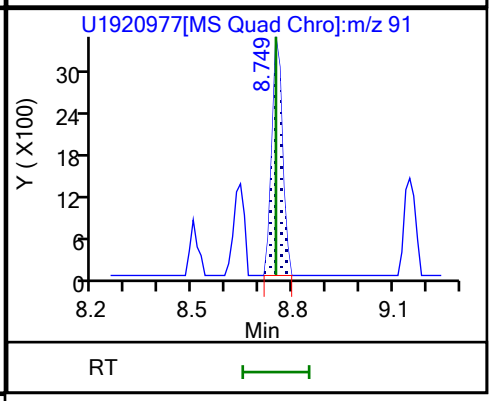
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920977.d		
Injection Date:	16-Mar-2021 03:06:38	Instrument ID:	A3UX19
Lims ID:	240-145599-B-24	Lab Sample ID:	240-145599-24
Client ID:	MSA-SW43D-030821		
Operator ID:	001904	ALS Bottle#:	0 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_19	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

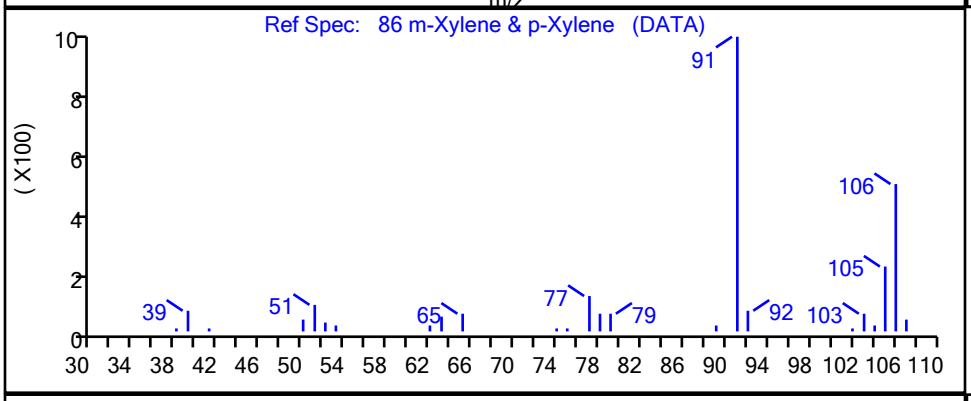
86 m-Xylene & p-Xylene, CAS: 179601-23-1

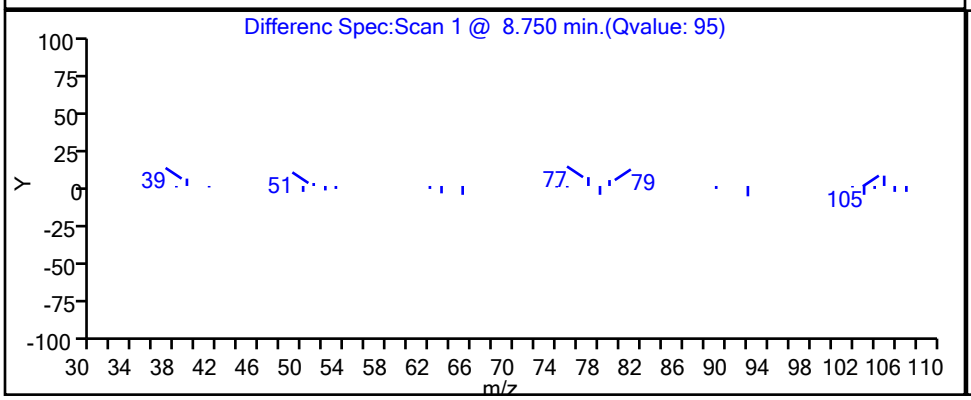


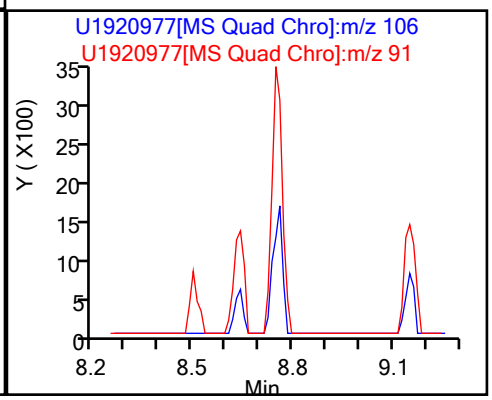












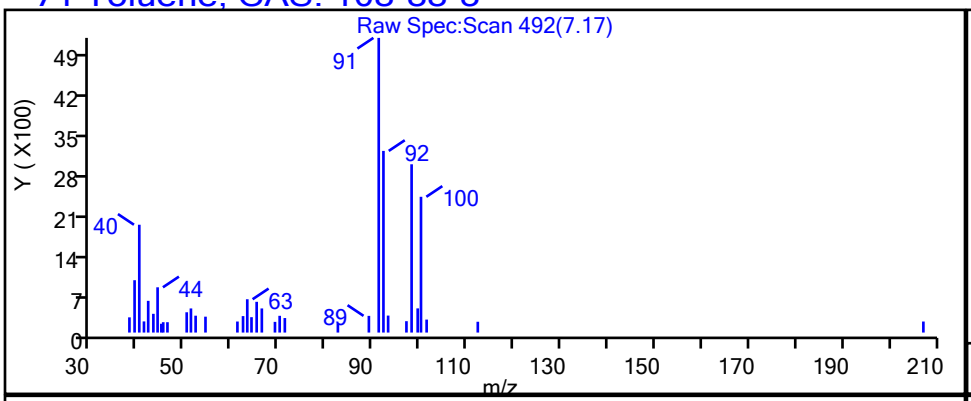
Report Date: 16-Mar-2021 14:38:02 Chrom Revision: 2.3 05-Feb-2021 00:13:28

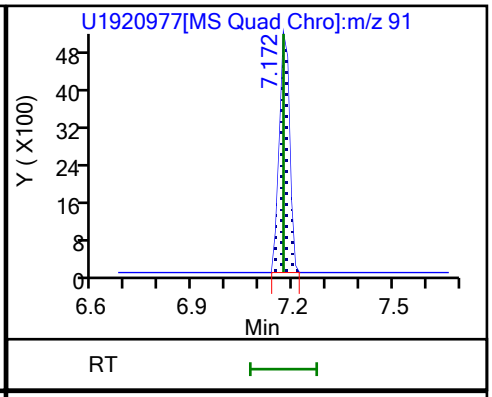
Eurofins TestAmerica, Canton

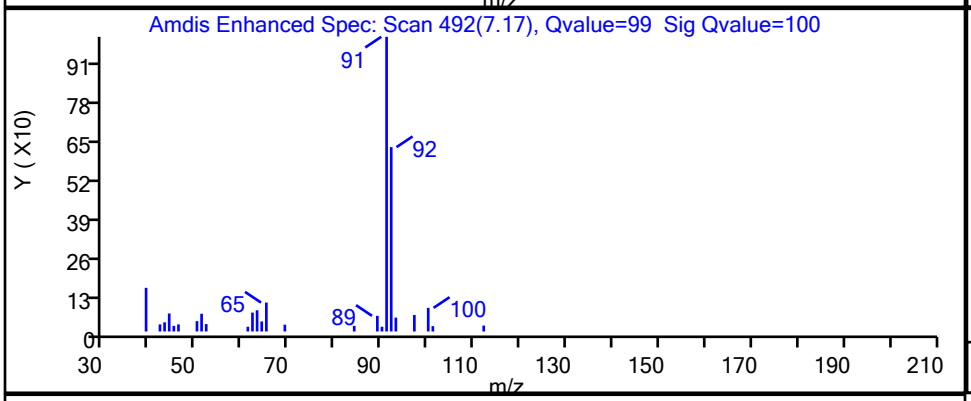
Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920977.d

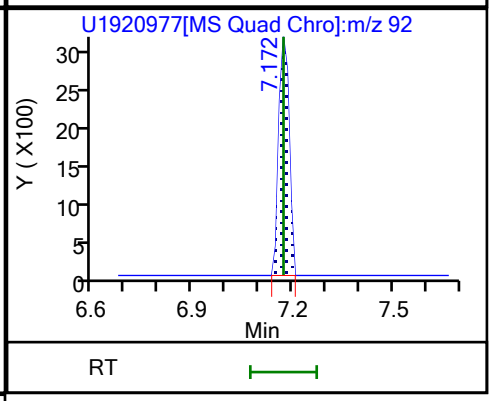
Injection Date:	16-Mar-2021 03:06:38	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-24	Lab Sample ID:	240-145599-24		
Client ID:	MSA-SW43D-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

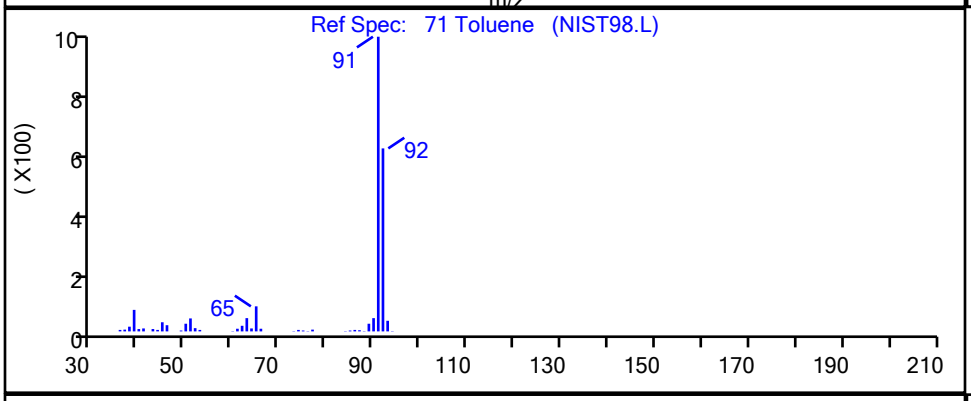
71 Toluene, CAS: 108-88-3

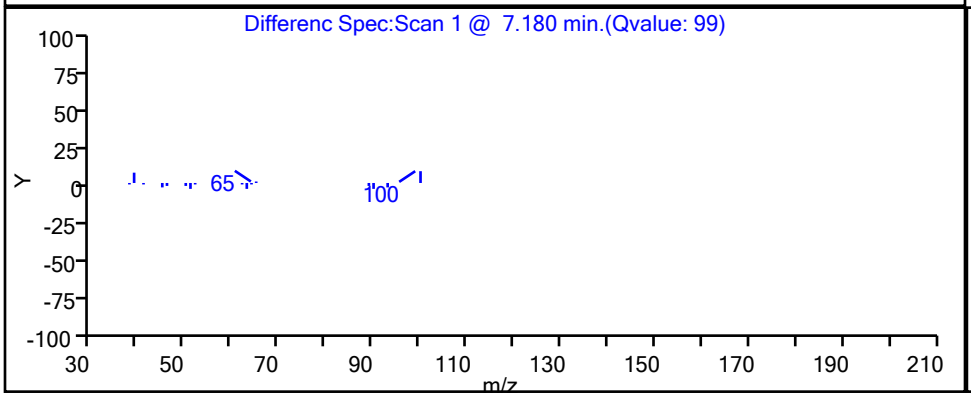


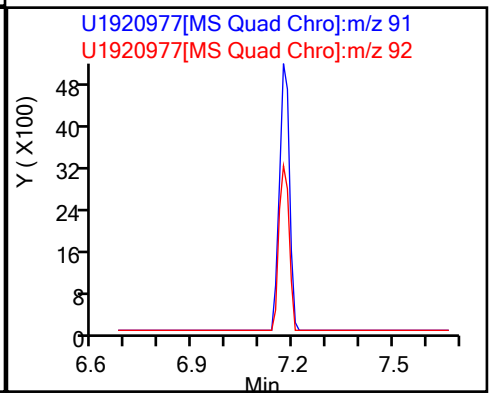










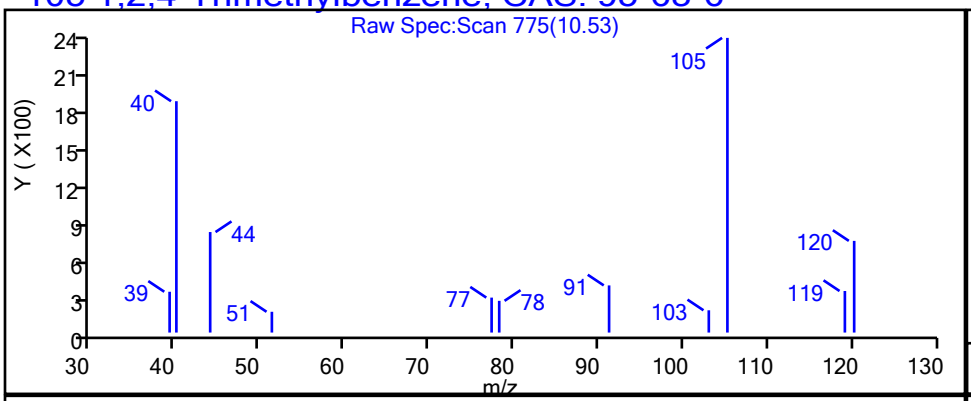


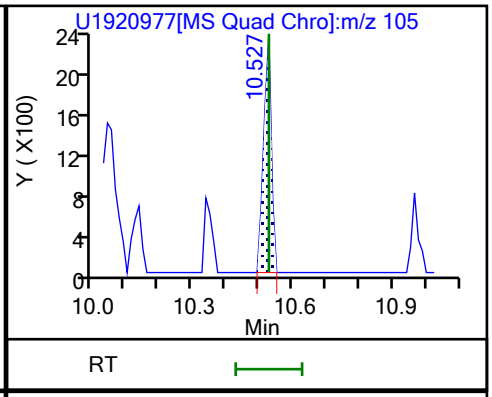
Report Date: 16-Mar-2021 14:38:02 Chrom Revision: 2.3 05-Feb-2021 00:13:28

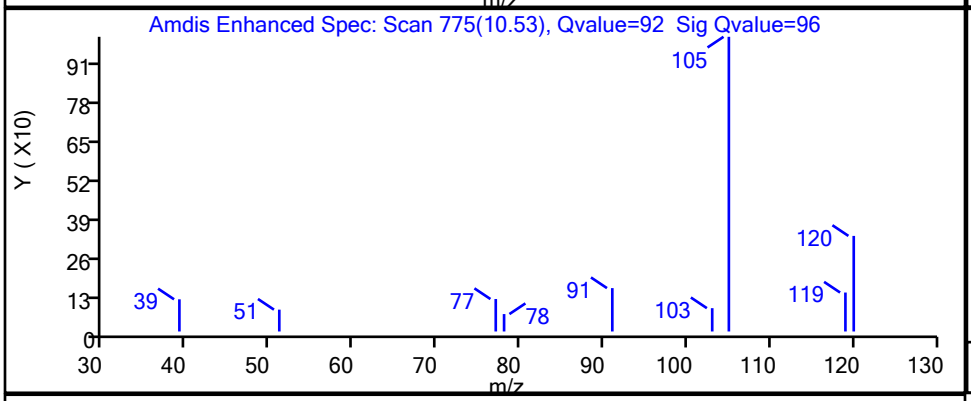
Eurofins TestAmerica, Canton

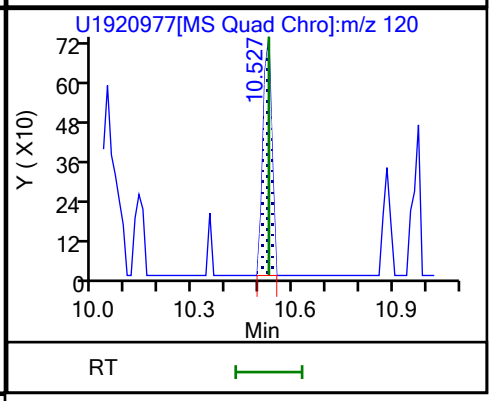
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920977.d				
Injection Date:	16-Mar-2021 03:06:38	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-24	Lab Sample ID:	240-145599-24		
Client ID:	MSA-SW43D-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

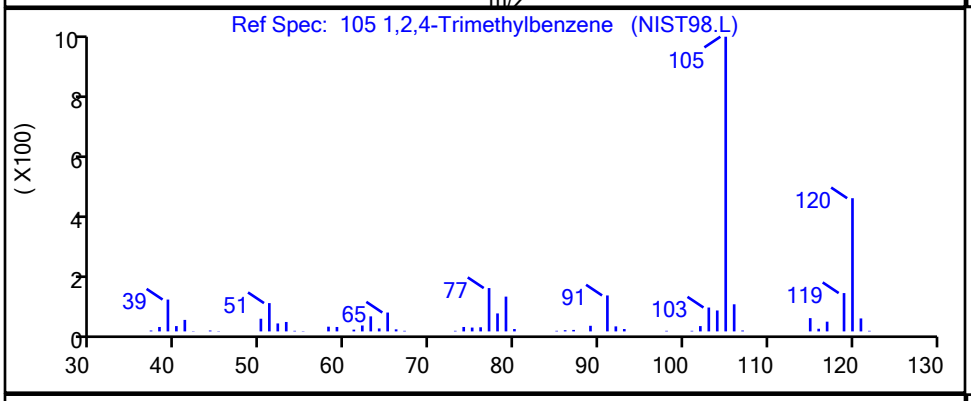
105 1,2,4-Trimethylbenzene, CAS: 95-63-6

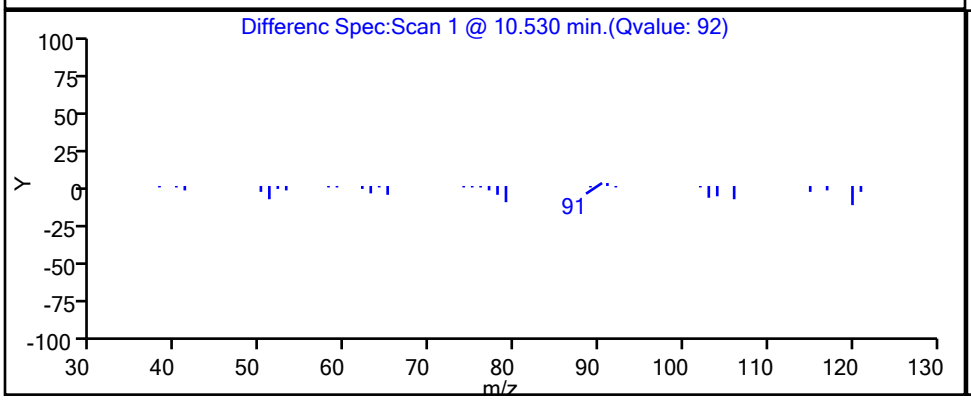


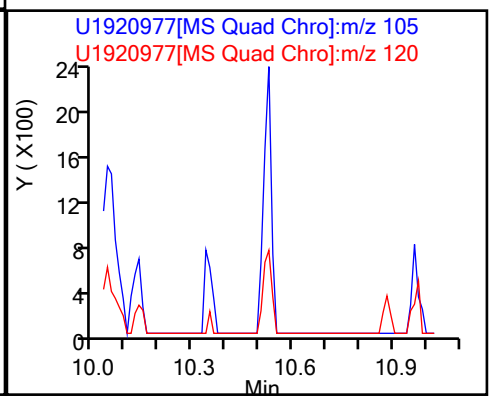












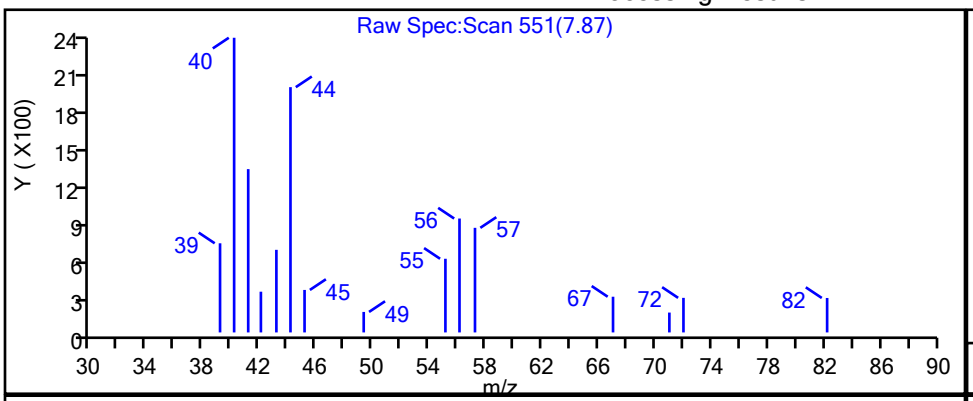
User Disabled Compound Report

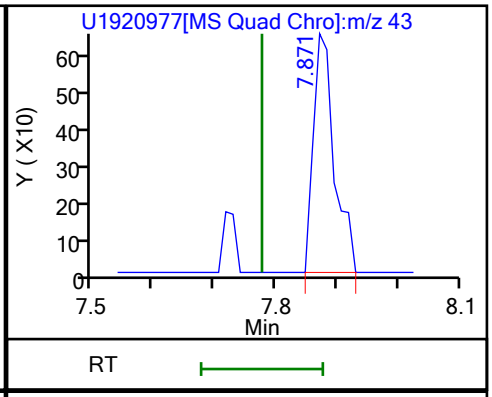
Eurofins TestAmerica, Canton

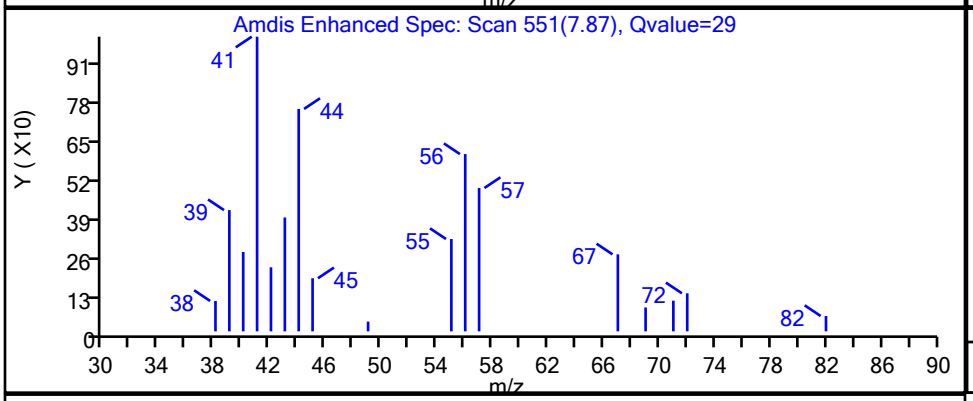
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920977.d				
Injection Date:	16-Mar-2021 03:06:38	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-24	Lab Sample ID:	240-145599-24		
Client ID:	MSA-SW43D-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

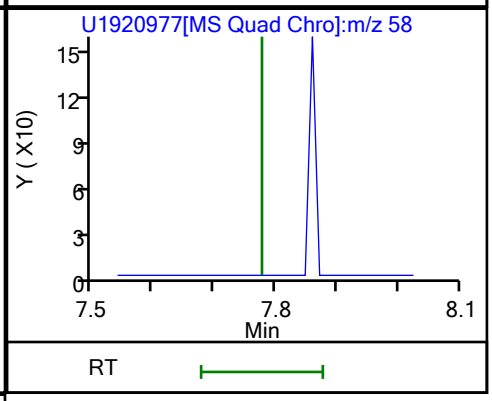
77 2-Hexanone, CAS: 591-78-6

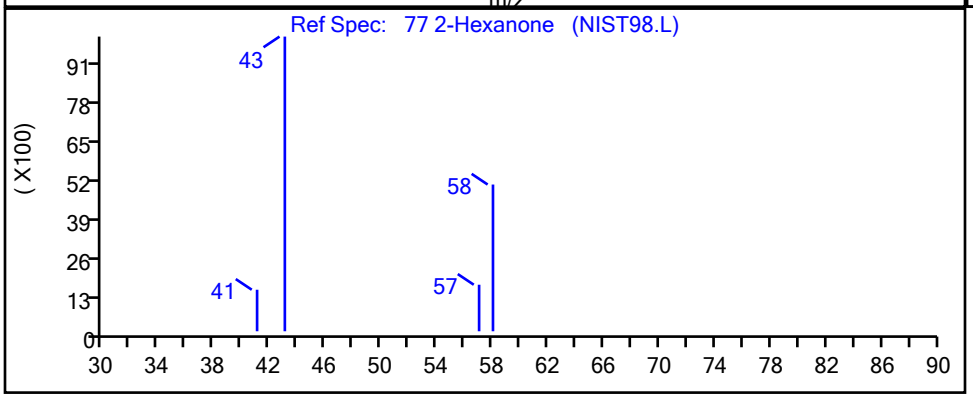
Processing Results











RT	Mass	Response	Amount
7.87	43.00	1560	0.148800
7.78	58.00	0	

Reviewer: laveyt, 16-Mar-2021 14:37:40

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

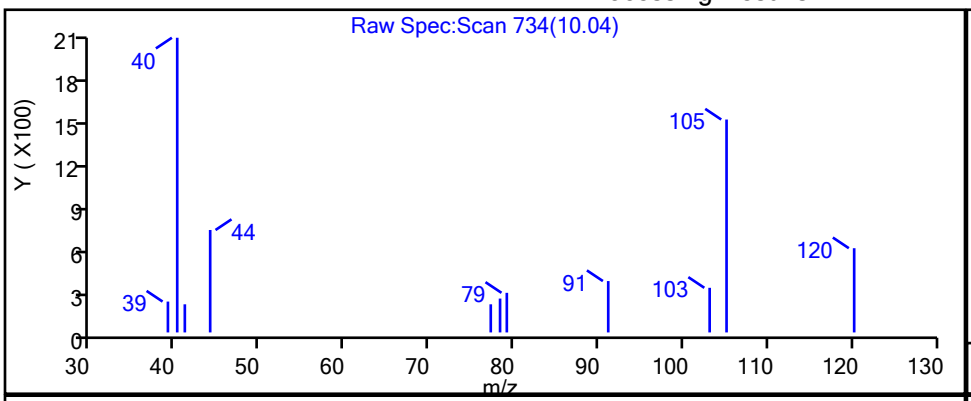
User Disabled Compound Report

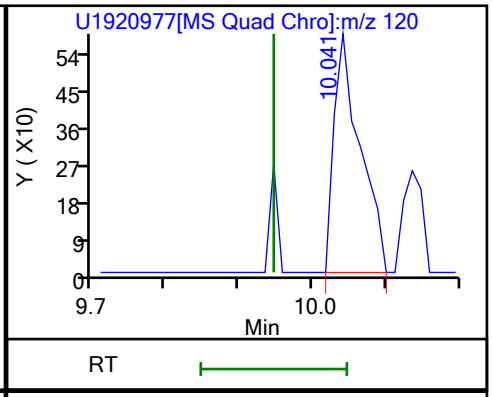
Eurofins TestAmerica, Canton

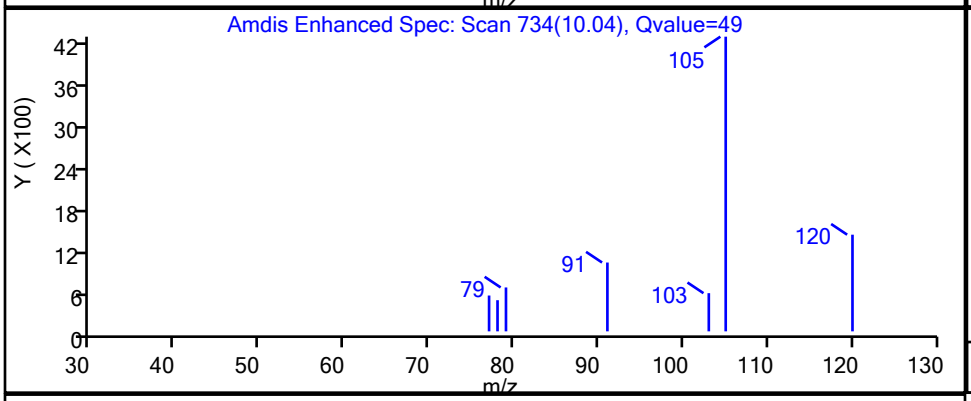
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920977.d				
Injection Date:	16-Mar-2021 03:06:38	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-24	Lab Sample ID:	240-145599-24		
Client ID:	MSA-SW43D-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

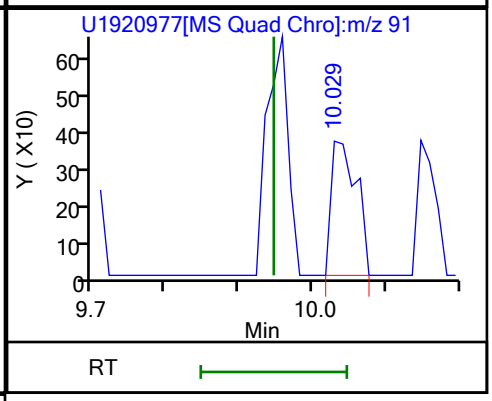
98 N-Propylbenzene, CAS: 103-65-1

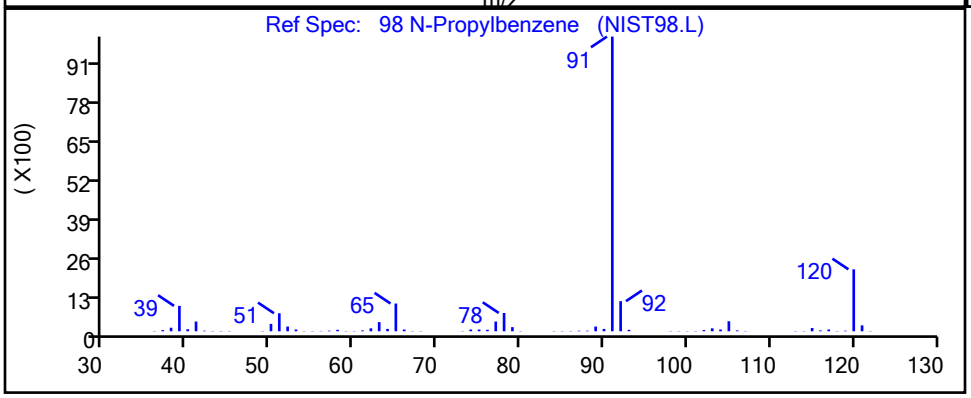
Processing Results











RT	Mass	Response	Amount
10.04	120.00	1457	0.118551
10.03	91.00	877	

Reviewer: laveyt, 16-Mar-2021 14:37:55

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44A-030821 Lab Sample ID: 240-145599-25

Matrix: Water Lab File ID: U1920978.d

Analysis Method: 8260C Date Collected: 03/08/2021 08:58

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44A-030821 Lab Sample ID: 240-145599-25

Matrix: Water Lab File ID: U1920978.d

Analysis Method: 8260C Date Collected: 03/08/2021 08:58

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.17	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.21	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44A-030821 Lab Sample ID: 240-145599-25

Matrix: Water Lab File ID: U1920978.d

Analysis Method: 8260C Date Collected: 03/08/2021 08:58

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.17	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	113		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44A-030821 Lab Sample ID: 240-145599-25

Matrix: Water Lab File ID: U1920978.d

Analysis Method: 8260C Date Collected: 03/08/2021 08:58

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44A-030821 Lab Sample ID: 240-145599-25

Matrix: Water Lab File ID: U1920978.d

Analysis Method: 8260C Date Collected: 03/08/2021 08:58

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 03:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920978.d
Lims ID: 240-145599-A-25
Client ID: MSA-SW44A-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 03:36:34 ALS Bottle#: 0 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-022
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:38:28 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:38:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.665	5.666	-0.001	98	804063	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	87	668677	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	96	328912	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.049	5.049	0.000	93	243737	22.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	97	307013	24.7	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	94	822736	20.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.686	9.686	0.000	85	299266	19.8	
9 Dichlorodifluoromethane	85		1.610				ND	
10 Chloromethane	50		1.811				ND	
12 Vinyl chloride	62		1.918				ND	7
13 Bromomethane	94		2.238				ND	7
15 Chloroethane	64		2.310				ND	7
17 Trichlorofluoromethane	101		2.594				ND	
20 1,1-Dichloroethene	61		3.033				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.069				ND	
22 Acetone	43	3.068	3.080	-0.012	95	8511	2.70	
25 Carbon disulfide	76		3.246				ND	7
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.578	3.578	0.000	1	248	0.2278	
32 trans-1,2-Dichloroethene	61		3.733				ND	
33 Methyl tert-butyl ether	73		3.744				ND	7
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.148				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
42 2,2-Dichloropropane	77		4.634				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	7
40 2-Butanone (MEK)	72		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.084				ND	
52 Carbon tetrachloride	117		5.239				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		5.239				ND	
54 Benzene	78		5.417				ND	7
55 1,2-Dichloroethane	62		5.428				ND	7
56 Tert-amyl methyl ether	73		5.511				ND	
59 Trichloroethene	130		5.998				ND	
62 1,2-Dichloropropane	63		6.199				ND	
64 Dibromomethane	174		6.306				ND	
66 Dichlorobromomethane	83		6.436				ND	
68 2-Chloroethyl vinyl ether	63		6.697				ND	
69 cis-1,3-Dichloropropene	75		6.851				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
71 Toluene	91	7.171	7.172	-0.001	97	9601	0.2125	
72 trans-1,3-Dichloropropene	75		7.361				ND	
75 Tetrachloroethene	166		7.705				ND	7
76 1,3-Dichloropropane	76		7.705				ND	
77 2-Hexanone	43		7.776				ND	U
79 Chlorodibromomethane	129		7.931				ND	
81 Ethylene Dibromide	107		8.049				ND	
83 Chlorobenzene	112		8.535				ND	
84 1,1,1,2-Tetrachloroethane	131		8.606				ND	
85 Ethylbenzene	106		8.630				ND	
86 m-Xylene & p-Xylene	106	8.761	8.749	0.012	97	3355	0.1704	
87 o-Xylene	106		9.152				ND	7
88 Styrene	104		9.164				ND	
89 Bromoform	173		9.354				ND	
90 Isopropylbenzene	105		9.531				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.852				ND	
96 1,2,3-Trichloropropane	110		9.875				ND	
98 N-Propylbenzene	120		9.947				ND	
100 2-Chlorotoluene	126		10.041				ND	
102 4-Chlorotoluene	126		10.160				ND	
103 tert-Butylbenzene	119		10.480				ND	7
105 1,2,4-Trimethylbenzene	105		10.528				ND	7
106 sec-Butylbenzene	105		10.705				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	7
108 4-Isopropyltoluene	119		10.860				ND	
109 1,4-Dichlorobenzene	146		10.919				ND	7
110 1,2,3-Trimethylbenzene	105		10.966				ND	
112 n-Butylbenzene	91		11.287				ND	
113 1,2-Dichlorobenzene	146		11.310				ND	
114 1,2-Dibromo-3-Chloropropane	157		12.129				ND	
116 1,2,4-Trichlorobenzene	180		13.018				ND	
117 Hexachlorobutadiene	225		13.208				ND	
118 Naphthalene	128		13.279				ND	7
119 1,2,3-Trichlorobenzene	180		13.540				ND	
S 128 Xylenes, Total	106				0		0.1704	
T 131 Chlorodifluoromethane TIC	51		1.640				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL	Run Reagent

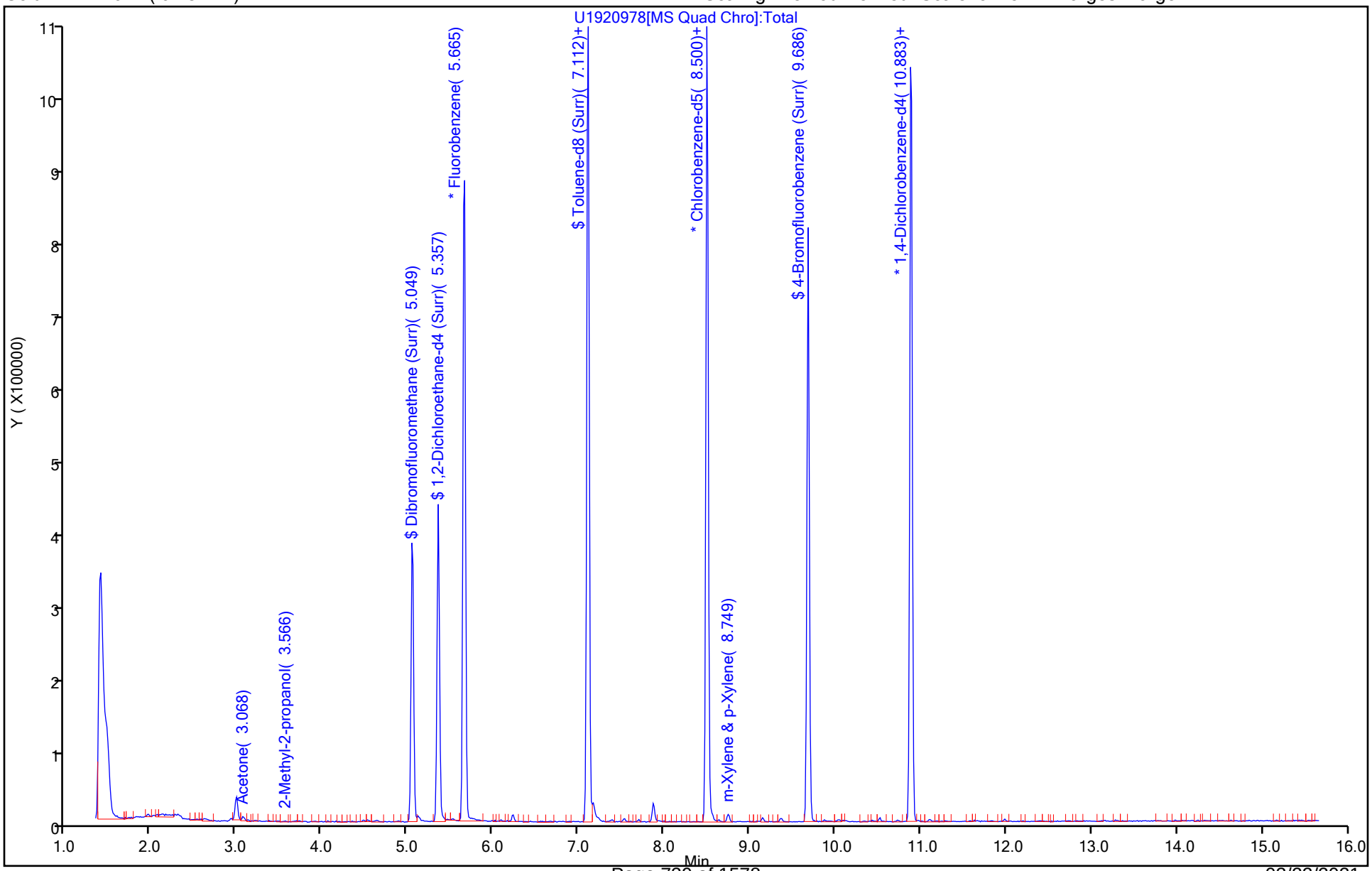
Report Date: 16-Mar-2021 14:38:29 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920978.d

Injection Date:	16-Mar-2021 03:36:34	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-145599-A-25	Lab Sample ID:	240-145599-25	Worklist Smp#:	22
Client ID:	MSA-SW44A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920978.d
Lims ID: 240-145599-A-25
Client ID: MSA-SW44A-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 03:36:34 ALS Bottle#: 0 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-022
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:38:28 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:38:28

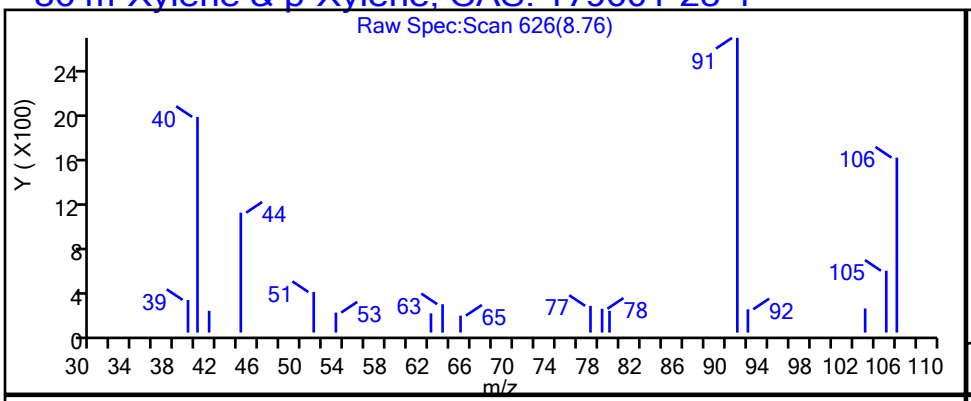
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.5	112.60
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	24.7	123.49
$ 6 Toluene-d8 (Surr)	20.0	20.5	102.59
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.8	99.17

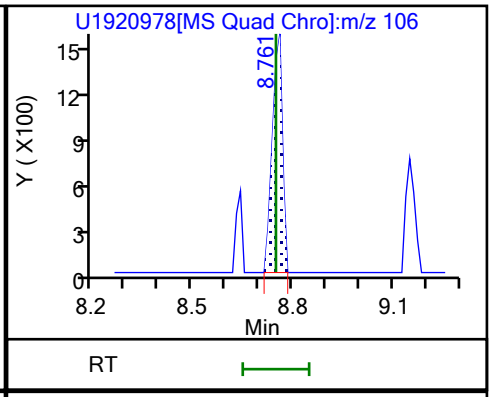
Report Date: 16-Mar-2021 14:38:29 Chrom Revision: 2.3 05-Feb-2021 00:13:28

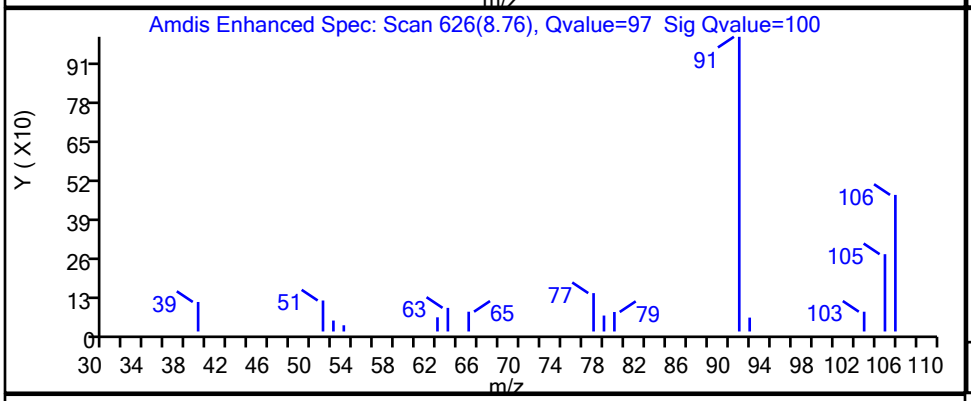
Eurofins TestAmerica, Canton

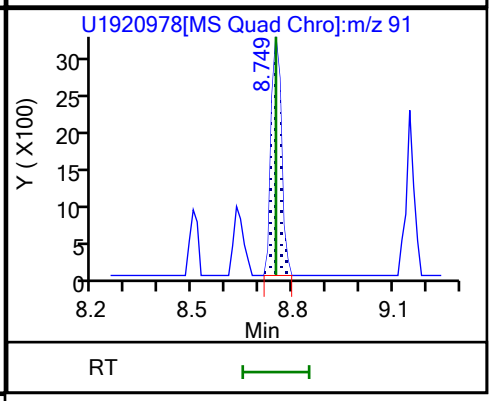
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920978.d				
Injection Date:	16-Mar-2021 03:36:34	Instrument ID:	A3UX19		
Lims ID:	240-145599-A-25	Lab Sample ID:	240-145599-25		
Client ID:	MSA-SW44A-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

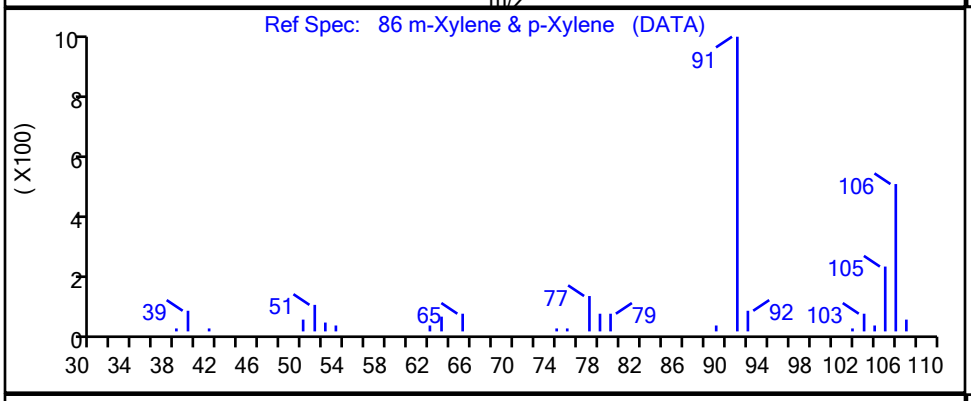
86 m-Xylene & p-Xylene, CAS: 179601-23-1

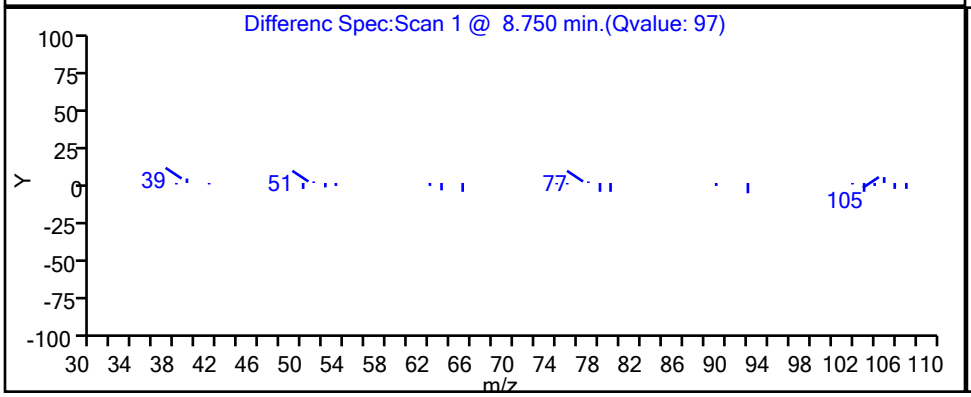


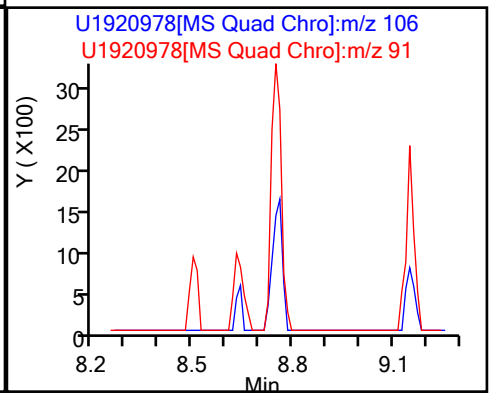








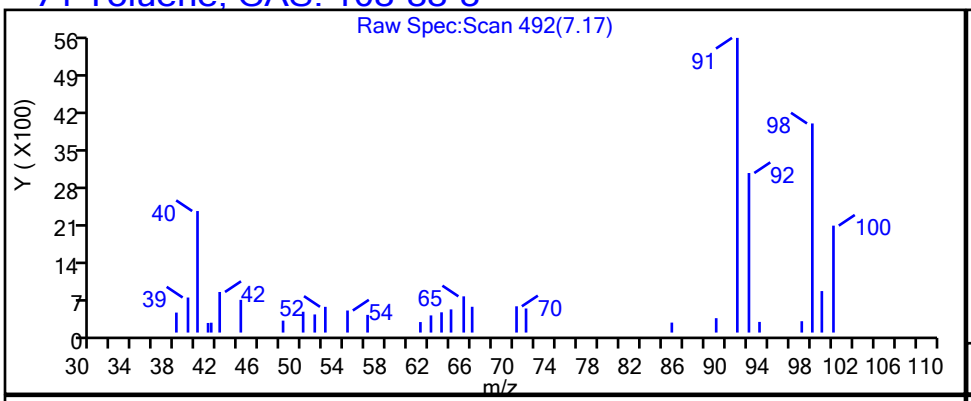


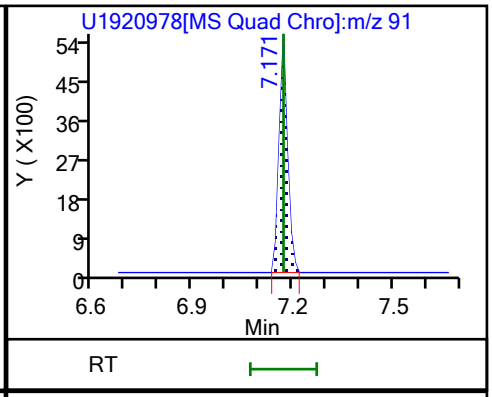


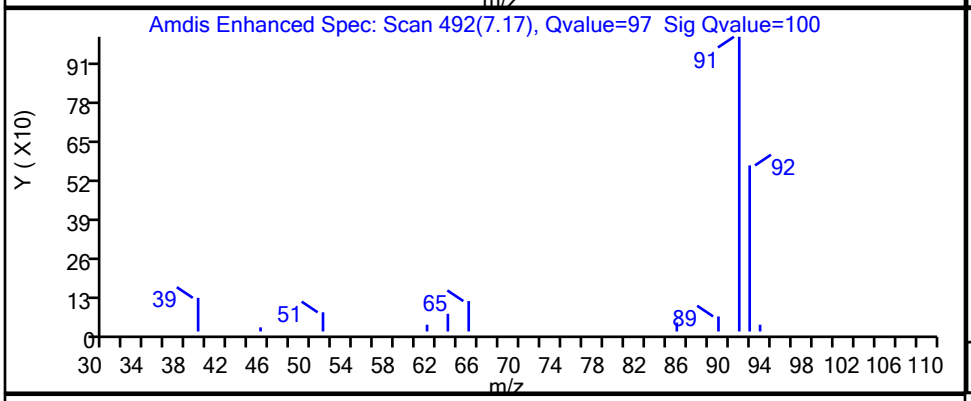
Eurofins TestAmerica, Canton

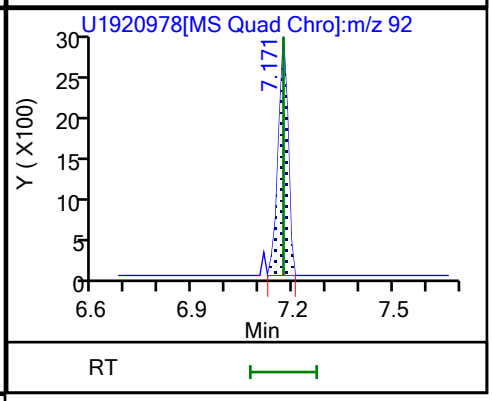
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920978.d		
Injection Date:	16-Mar-2021 03:36:34	Instrument ID:	A3UX19
Lims ID:	240-145599-A-25	Lab Sample ID:	240-145599-25
Client ID:	MSA-SW44A-030821		
Operator ID:	001904	ALS Bottle#:	0 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_19	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

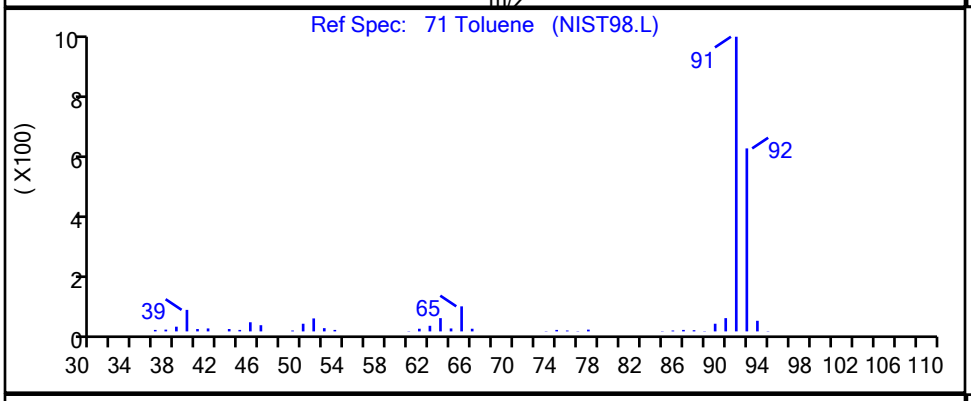
71 Toluene, CAS: 108-88-3

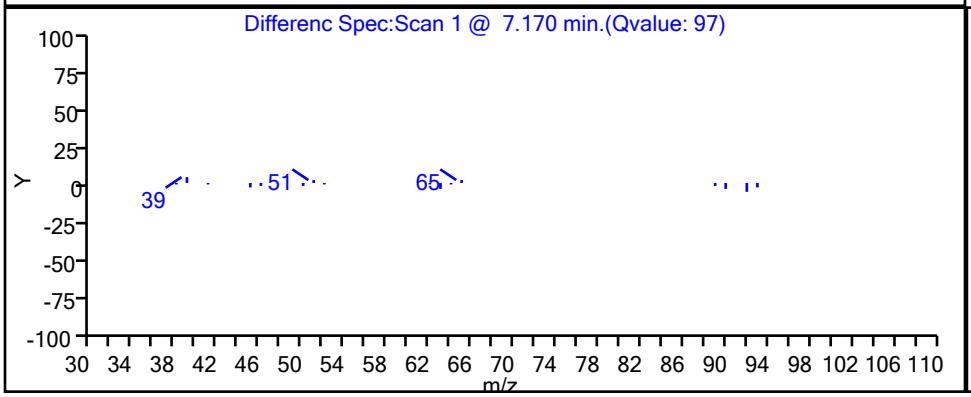


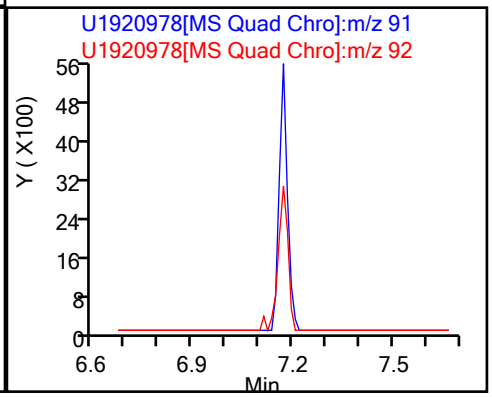












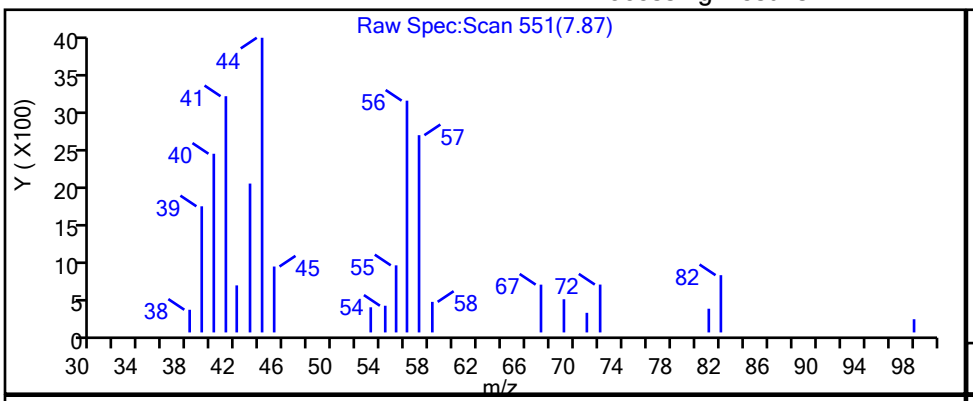
User Disabled Compound Report

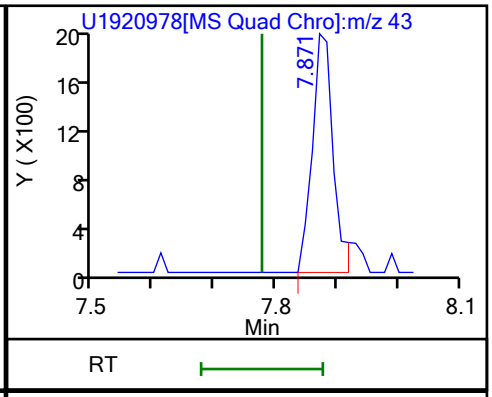
Eurofins TestAmerica, Canton

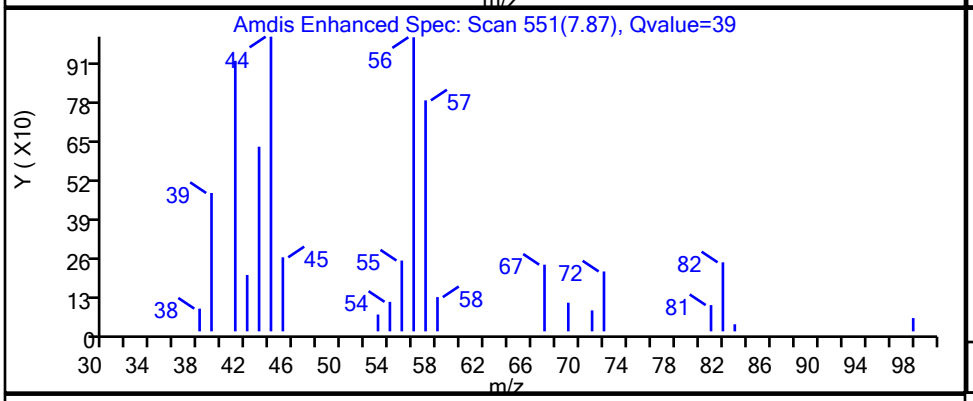
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920978.d				
Injection Date:	16-Mar-2021 03:36:34	Instrument ID:	A3UX19		
Lims ID:	240-145599-A-25	Lab Sample ID:	240-145599-25		
Client ID:	MSA-SW44A-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

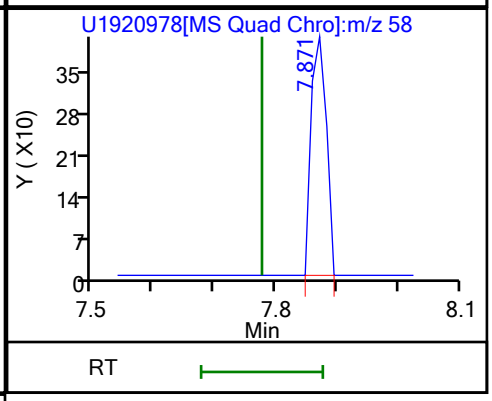
77 2-Hexanone, CAS: 591-78-6

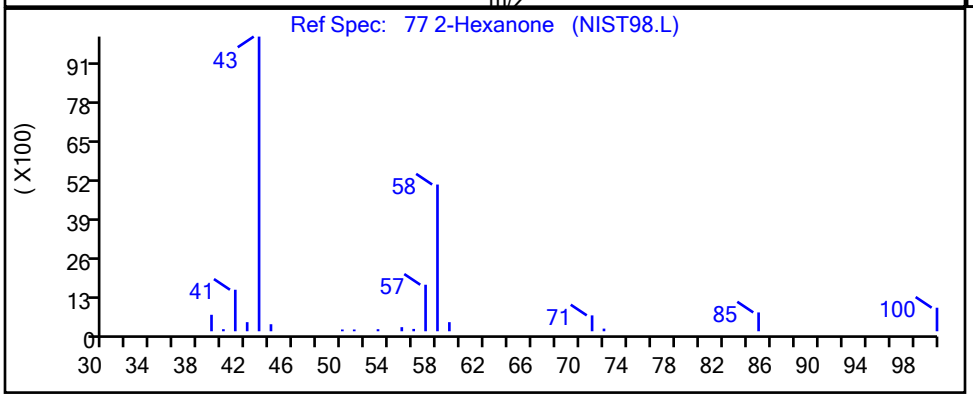
Processing Results











RT	Mass	Response	Amount
7.87	43.00	4756	0.451747
7.87	58.00	712	

Reviewer: laveyt, 16-Mar-2021 14:38:21

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44B-030821 Lab Sample ID: 240-145599-26

Matrix: Water Lab File ID: U1920979.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44B-030821 Lab Sample ID: 240-145599-26

Matrix: Water Lab File ID: U1920979.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.20	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.10	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.26	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44B-030821 Lab Sample ID: 240-145599-26

Matrix: Water Lab File ID: U1920979.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.30	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	117		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	127		75-130
2037-26-5	Toluene-d8 (Surr)	107		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44B-030821 Lab Sample ID: 240-145599-26

Matrix: Water Lab File ID: U1920979.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44B-030821 Lab Sample ID: 240-145599-26

Matrix: Water Lab File ID: U1920979.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920979.d
Lims ID: 240-145599-B-26
Client ID: MSA-SW44B-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 04:06:56 ALS Bottle#: 0 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-023
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:39:03 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:39:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.666	5.666	0.000	99	799574	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	87	666323	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	97	311178	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.049	5.049	0.000	92	250867	23.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	97	312816	25.3	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	94	855415	21.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.686	9.686	0.000	86	304404	20.2	
9 Dichlorodifluoromethane	85		1.610				ND	
10 Chloromethane	50		1.811				ND	
12 Vinyl chloride	62		1.918				ND	7
13 Bromomethane	94		2.238				ND	7
15 Chloroethane	64		2.310				ND	
17 Trichlorofluoromethane	101		2.594				ND	
20 1,1-Dichloroethene	61		3.033				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.069				ND	
22 Acetone	43		3.080				ND	
25 Carbon disulfide	76		3.246				ND	7
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.579	3.578	0.001	33	695	0.6419	
32 trans-1,2-Dichloroethene	61		3.733				ND	
33 Methyl tert-butyl ether	73		3.744				ND	7
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.148				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
42 2,2-Dichloropropane	77		4.634				ND	
41 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	1	1171	0.1013	
40 2-Butanone (MEK)	72		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.084				ND	
52 Carbon tetrachloride	117		5.239				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		5.239				ND	
54 Benzene	78		5.417				ND	7
55 1,2-Dichloroethane	62		5.428				ND	7
56 Tert-amyl methyl ether	73		5.511				ND	
59 Trichloroethene	130		5.998				ND	7
62 1,2-Dichloropropane	63		6.199				ND	
64 Dibromomethane	174		6.306				ND	
66 Dichlorobromomethane	83		6.436				ND	
68 2-Chloroethyl vinyl ether	63		6.697				ND	
69 cis-1,3-Dichloropropene	75		6.851				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
71 Toluene	91	7.172	7.172	0.000	96	11525	0.2559	
72 trans-1,3-Dichloropropene	75		7.361				ND	
75 Tetrachloroethene	166		7.705				ND	7
76 1,3-Dichloropropane	76		7.705				ND	
77 2-Hexanone	43		7.776				ND	U
79 Chlorodibromomethane	129		7.931				ND	
81 Ethylene Dibromide	107		8.049				ND	
83 Chlorobenzene	112		8.535				ND	
84 1,1,1,2-Tetrachloroethane	131		8.606				ND	
85 Ethylbenzene	106		8.630				ND	7
86 m-Xylene & p-Xylene	106	8.749	8.749	0.000	96	3829	0.1951	
87 o-Xylene	106	9.164	9.152	0.012	92	1894	0.1016	
88 Styrene	104		9.164				ND	
89 Bromoform	173		9.354				ND	
90 Isopropylbenzene	105		9.531				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.852				ND	
96 1,2,3-Trichloropropane	110		9.875				ND	
98 N-Propylbenzene	120		9.947				ND	
100 2-Chlorotoluene	126		10.041				ND	
102 4-Chlorotoluene	126		10.160				ND	
103 tert-Butylbenzene	119		10.480				ND	7
105 1,2,4-Trimethylbenzene	105		10.528				ND	7
106 sec-Butylbenzene	105		10.705				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	7
108 4-Isopropyltoluene	119		10.860				ND	
109 1,4-Dichlorobenzene	146		10.919				ND	7
110 1,2,3-Trimethylbenzene	105		10.966				ND	
112 n-Butylbenzene	91		11.287				ND	
113 1,2-Dichlorobenzene	146		11.310				ND	
114 1,2-Dibromo-3-Chloropropane	157		12.129				ND	
116 1,2,4-Trichlorobenzene	180		13.018				ND	7
117 Hexachlorobutadiene	225		13.208				ND	
118 Naphthalene	128		13.279				ND	7
119 1,2,3-Trichlorobenzene	180		13.540				ND	
S 128 Xylenes, Total	106				0		0.2967	
T 131 Chlorodifluoromethane TIC	51		1.640				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

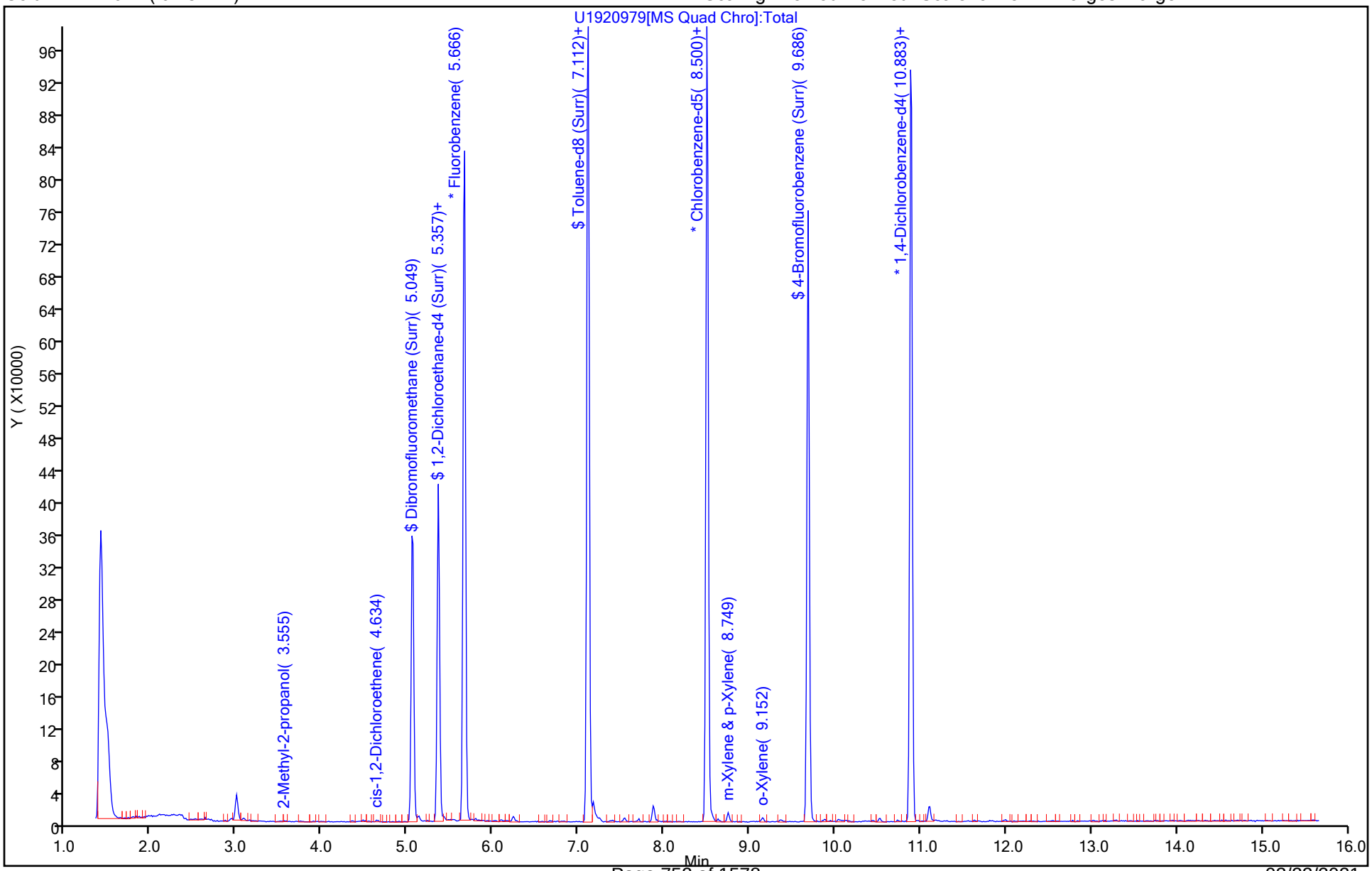
vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 16-Mar-2021 14:39:03 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920979.d				
Injection Date:	16-Mar-2021 04:06:56	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-145599-B-26	Lab Sample ID:	240-145599-26	Worklist Smp#:	23
Client ID:	MSA-SW44B-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920979.d				
Lims ID:	240-145599-B-26				
Client ID:	MSA-SW44B-030821				
Sample Type:	Client				
Inject. Date:	16-Mar-2021 04:06:56	ALS Bottle#:	0	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107293-023				
Operator ID:	001904	Instrument ID:	A3UX19		
Method:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	16-Mar-2021 14:39:03	Calib Date:	09-Jun-2020 21:22:13		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1634				

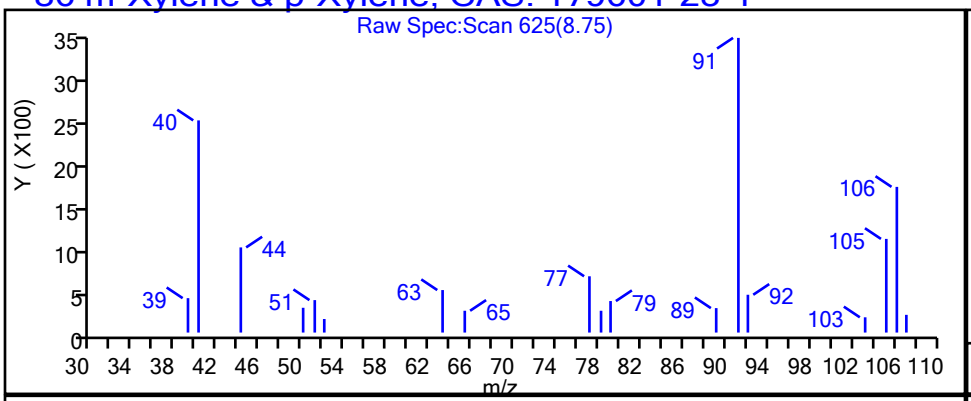
First Level Reviewer: laveyt Date: 16-Mar-2021 14:39:03

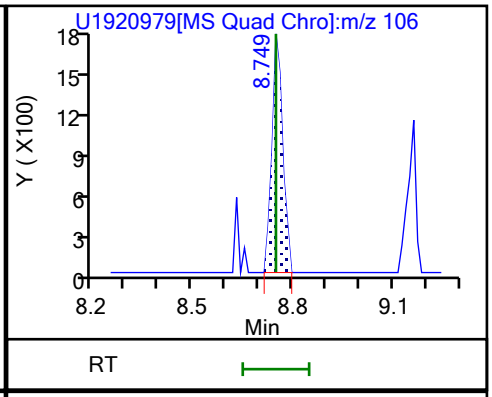
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.3	116.55
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	25.3	126.53
$ 6 Toluene-d8 (Surr)	20.0	21.4	107.05
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.2	101.23

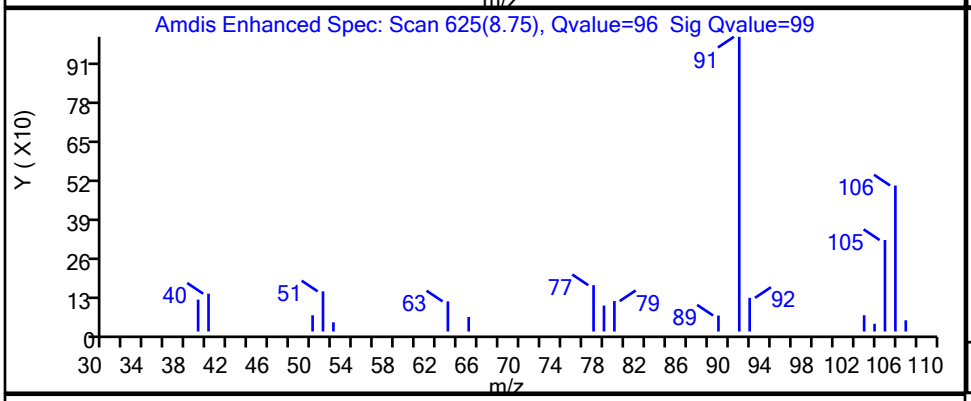
Eurofins TestAmerica, Canton

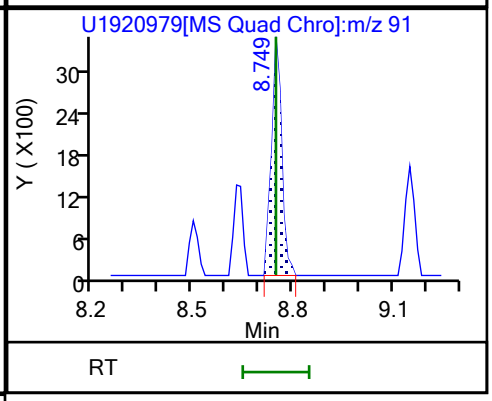
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920979.d				
Injection Date:	16-Mar-2021 04:06:56	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-26	Lab Sample ID:	240-145599-26		
Client ID:	MSA-SW44B-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

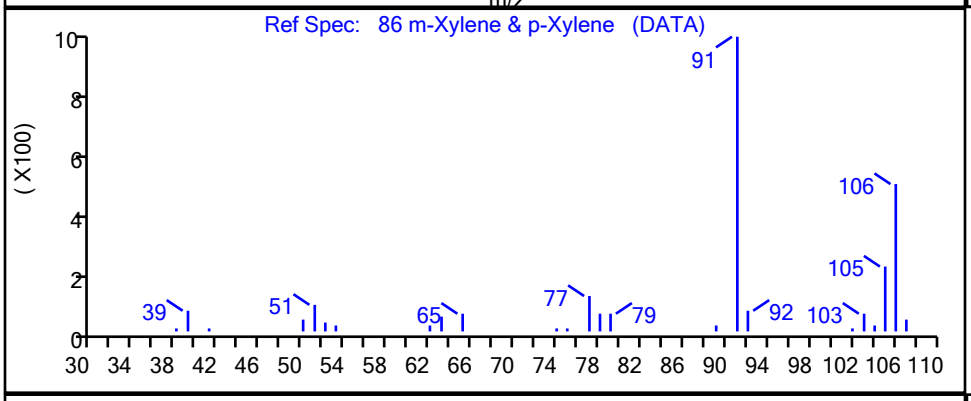
86 m-Xylene & p-Xylene, CAS: 179601-23-1

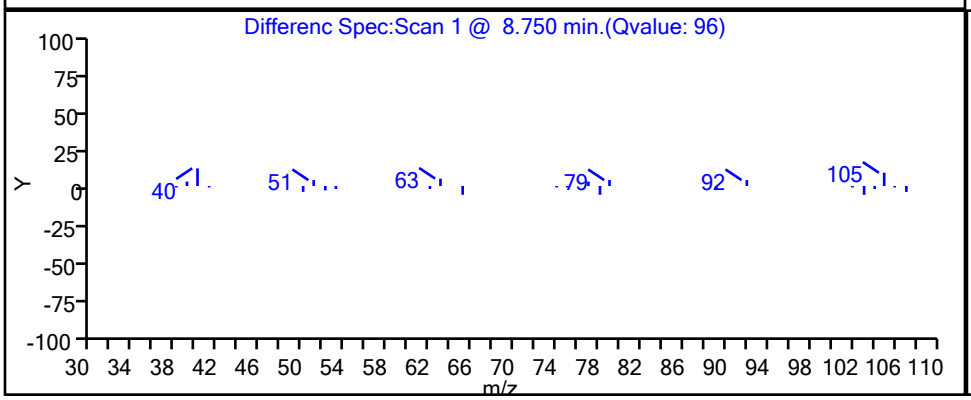


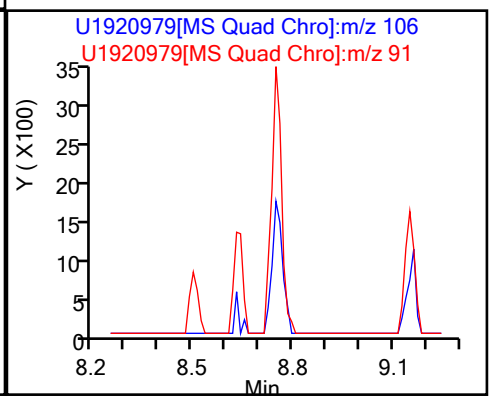








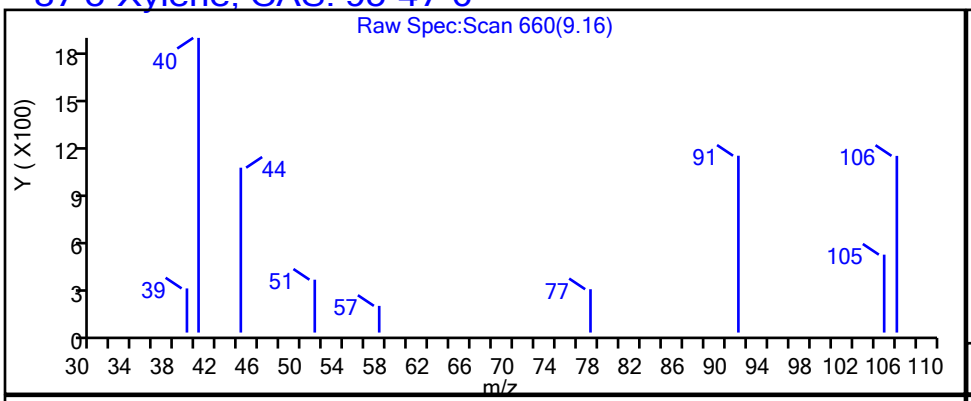


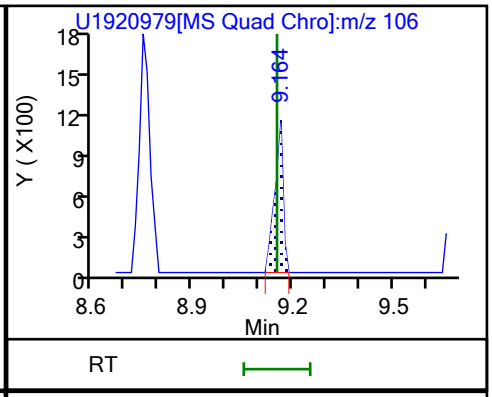


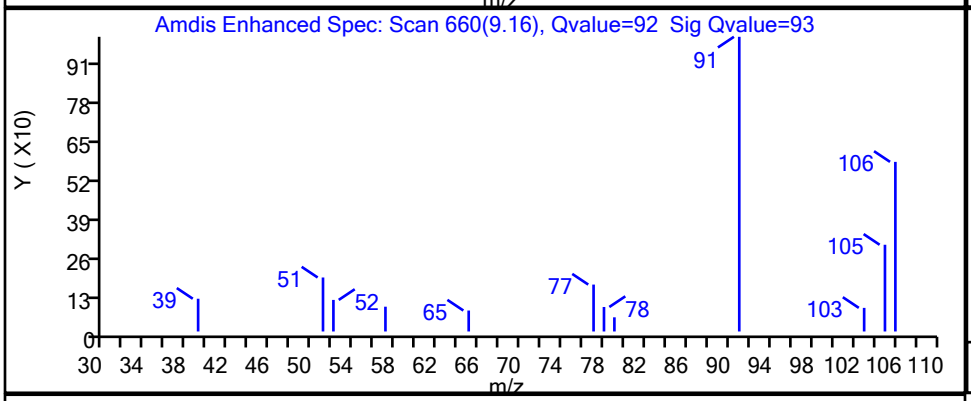
Eurofins TestAmerica, Canton

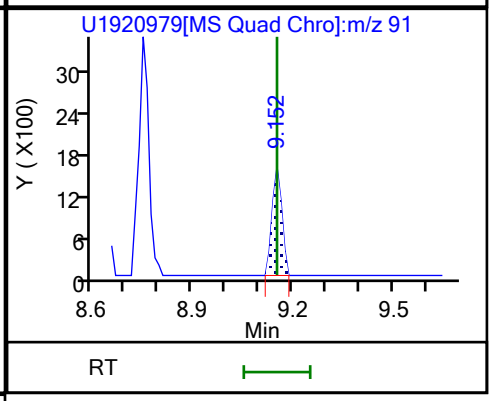
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920979.d				
Injection Date:	16-Mar-2021 04:06:56	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-26	Lab Sample ID:	240-145599-26		
Client ID:	MSA-SW44B-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

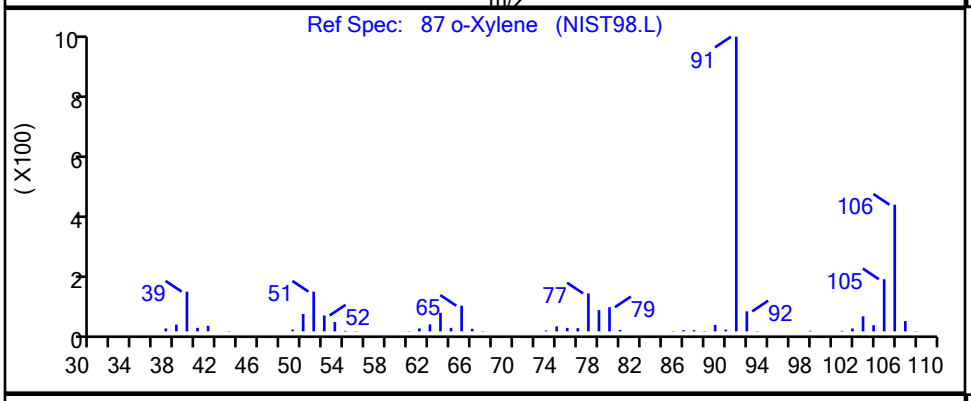
87 o-Xylene, CAS: 95-47-6

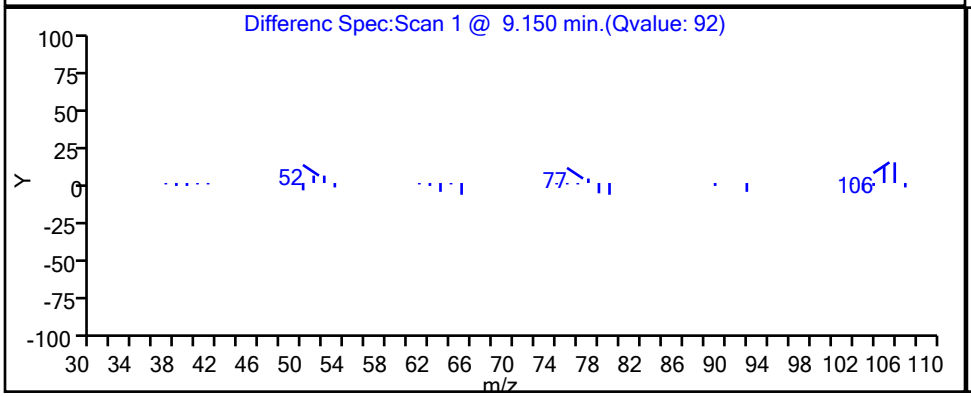


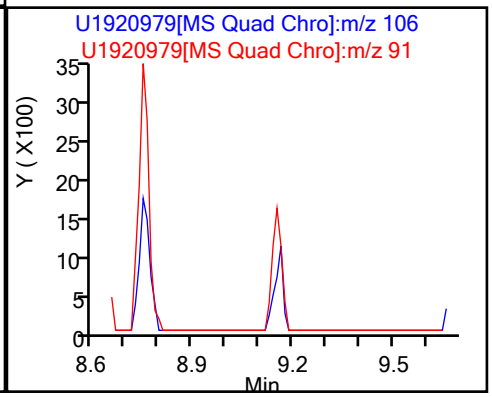












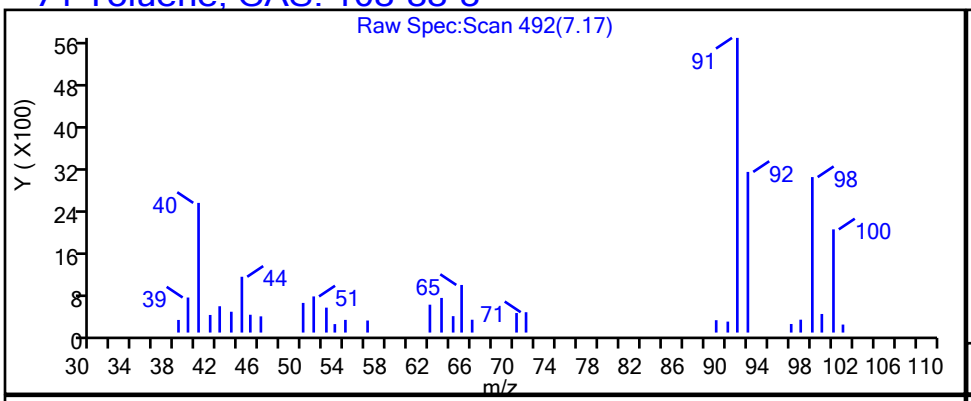
Report Date: 16-Mar-2021 14:39:04 Chrom Revision: 2.3 05-Feb-2021 00:13:28

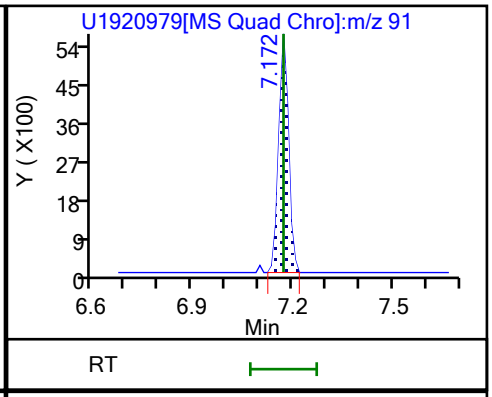
Eurofins TestAmerica, Canton

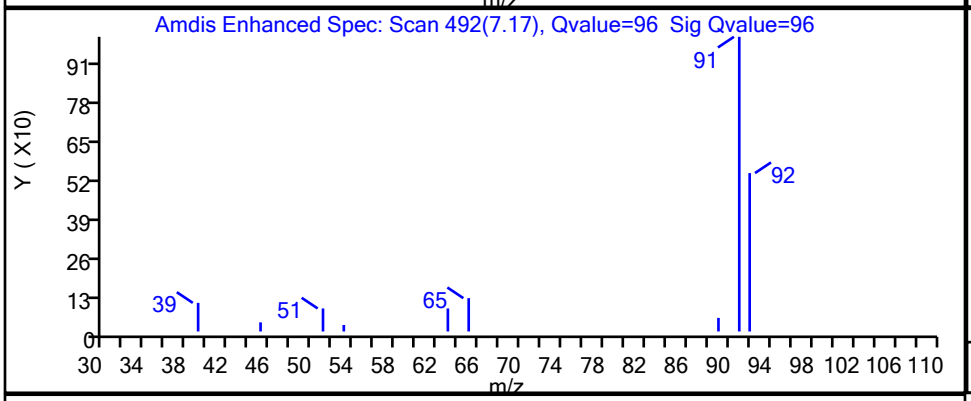
Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920979.d

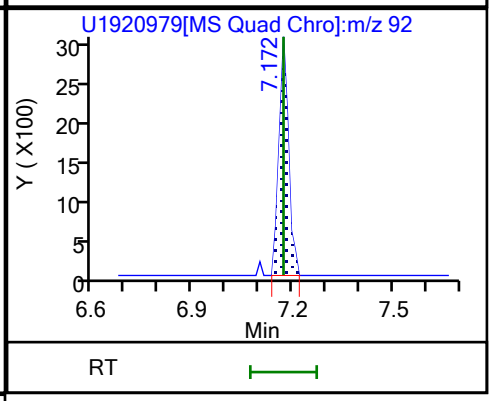
Injection Date:	16-Mar-2021 04:06:56	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-26	Lab Sample ID:	240-145599-26		
Client ID:	MSA-SW44B-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

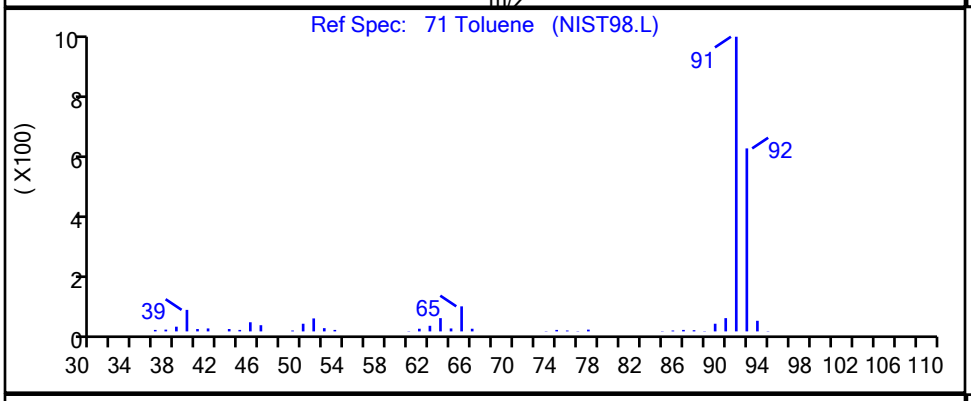
71 Toluene, CAS: 108-88-3

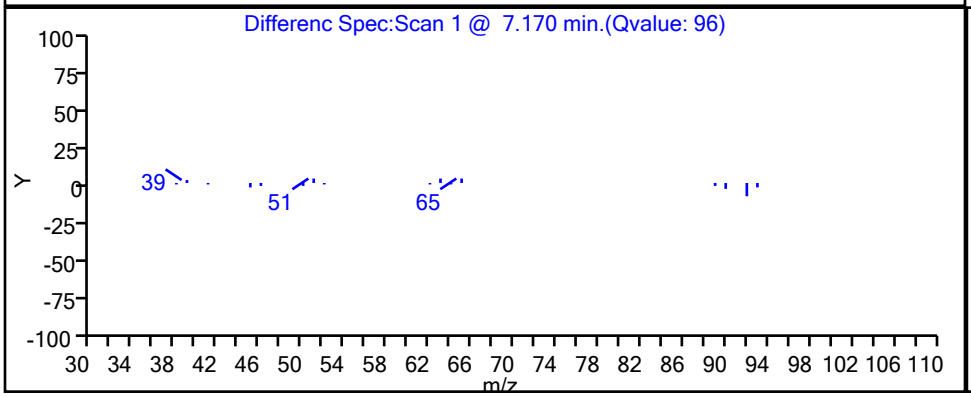


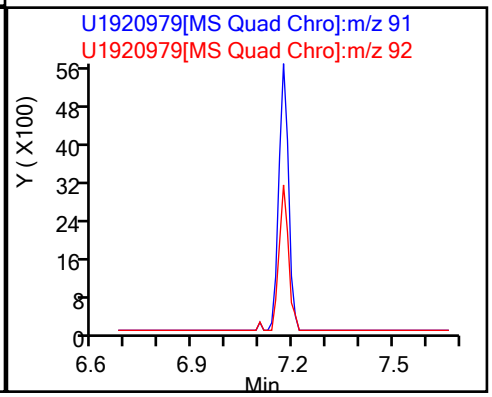












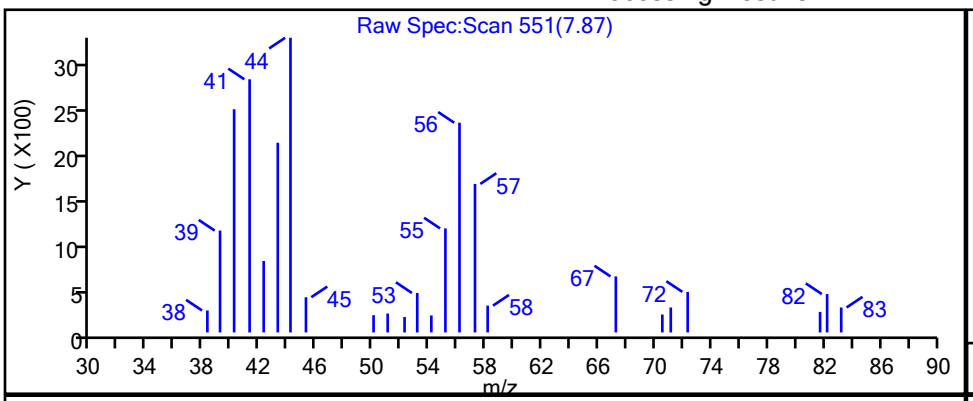
User Disabled Compound Report

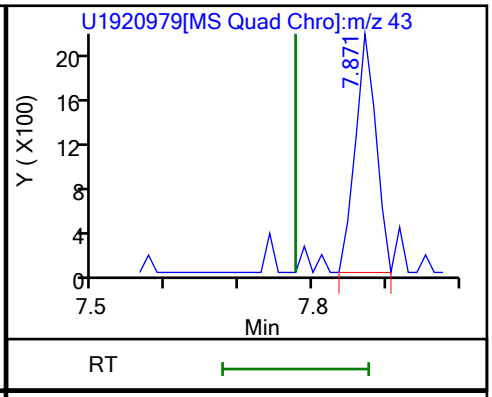
Eurofins TestAmerica, Canton

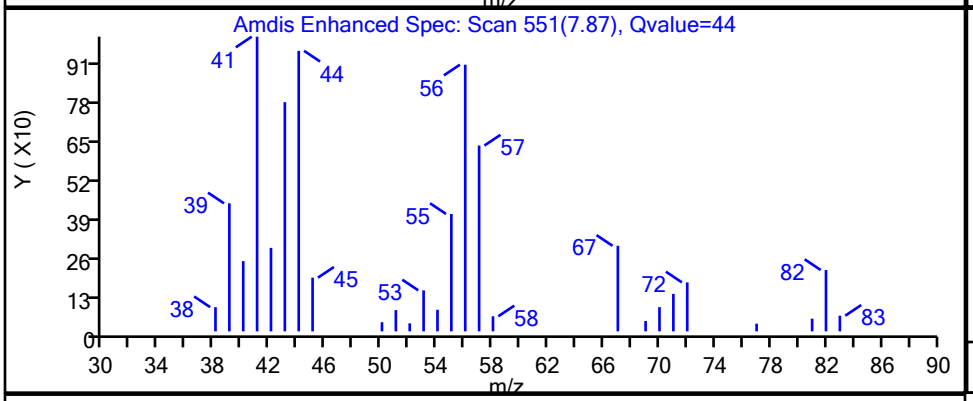
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920979.d				
Injection Date:	16-Mar-2021 04:06:56	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-26	Lab Sample ID:	240-145599-26		
Client ID:	MSA-SW44B-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

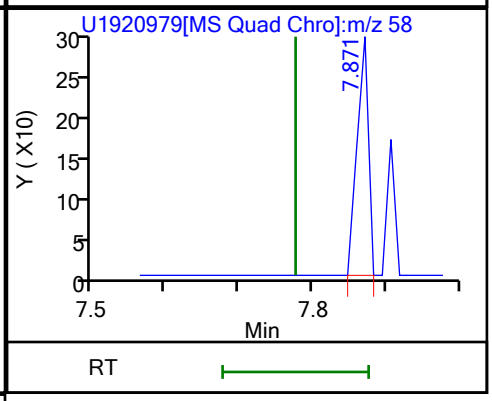
77 2-Hexanone, CAS: 591-78-6

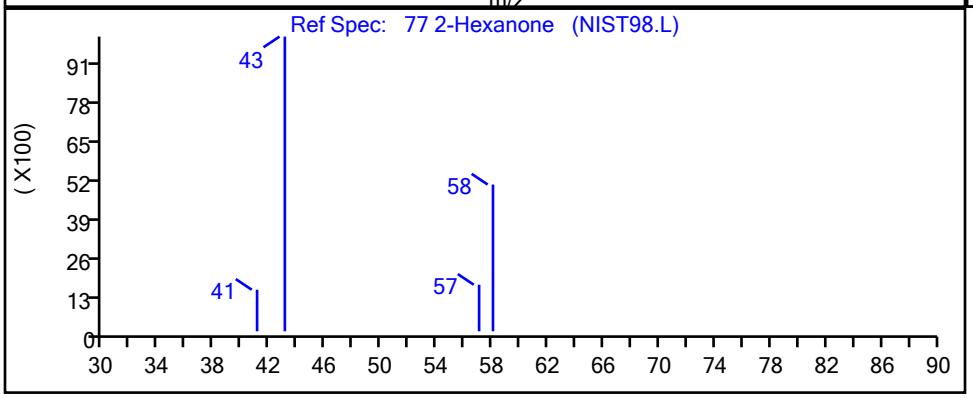
Processing Results











RT	Mass	Response	Amount
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7.87	58.00	320	

Reviewer: laveyt, 16-Mar-2021 14:38:50

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44C-030821 Lab Sample ID: 240-145599-27

Matrix: Water Lab File ID: U1920980.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44C-030821 Lab Sample ID: 240-145599-27

Matrix: Water Lab File ID: U1920980.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.23	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.11	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.30	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.12	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44C-030821 Lab Sample ID: 240-145599-27

Matrix: Water Lab File ID: U1920980.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.34	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	117		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	128		75-130
2037-26-5	Toluene-d8 (Surr)	106		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44C-030821 Lab Sample ID: 240-145599-27

Matrix: Water Lab File ID: U1920980.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44C-030821 Lab Sample ID: 240-145599-27

Matrix: Water Lab File ID: U1920980.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 04:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920980.d
Lims ID: 240-145599-B-27
Client ID: MSA-SW44C-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 04:37:12 ALS Bottle#: 0 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-024
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:39:03 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:40:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.666	5.666	0.000	98	783480	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	88	645435	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	97	316044	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.049	5.049	0.000	93	246545	23.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	97	310808	25.7	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	821706	21.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.686	9.686	0.000	85	297505	20.4	
9 Dichlorodifluoromethane	85		1.610				ND	
10 Chloromethane	50		1.811				ND	
12 Vinyl chloride	62	1.918	1.918	0.000	29	1332	0.1141	
13 Bromomethane	94		2.238				ND	7
15 Chloroethane	64		2.310				ND	7
17 Trichlorofluoromethane	101		2.594				ND	
20 1,1-Dichloroethene	61		3.033				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	86	6163	2.01	
25 Carbon disulfide	76		3.246				ND	7
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.578	3.578	0.000	11	349	0.3290	
32 trans-1,2-Dichloroethene	61		3.733				ND	
33 Methyl tert-butyl ether	73		3.744				ND	7
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.148				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
42 2,2-Dichloropropane	77		4.634				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	7
40 2-Butanone (MEK)	72		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.084				ND	
52 Carbon tetrachloride	117		5.239				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		5.239				ND	
54 Benzene	78		5.417				ND	7
55 1,2-Dichloroethane	62		5.428				ND	7
56 Tert-amyl methyl ether	73		5.511				ND	
59 Trichloroethene	130		5.998				ND	
62 1,2-Dichloropropane	63		6.199				ND	
64 Dibromomethane	174		6.306				ND	
66 Dichlorobromomethane	83		6.436				ND	
68 2-Chloroethyl vinyl ether	63		6.697				ND	
69 cis-1,3-Dichloropropene	75		6.851				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
71 Toluene	91	7.172	7.172	0.000	98	13287	0.3046	
72 trans-1,3-Dichloropropene	75		7.361				ND	
75 Tetrachloroethene	166		7.705				ND	7
76 1,3-Dichloropropane	76		7.705				ND	
77 2-Hexanone	43		7.776				ND	
79 Chlorodibromomethane	129		7.931				ND	
81 Ethylene Dibromide	107		8.049				ND	
83 Chlorobenzene	112		8.535				ND	
84 1,1,1,2-Tetrachloroethane	131		8.606				ND	
85 Ethylbenzene	106		8.630				ND	7
86 m-Xylene & p-Xylene	106	8.749	8.749	0.000	98	4467	0.2350	
87 o-Xylene	106	9.152	9.152	0.000	95	2007	0.1111	
88 Styrene	104		9.164				ND	
89 Bromoform	173		9.354				ND	
90 Isopropylbenzene	105		9.531				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.852				ND	
96 1,2,3-Trichloropropane	110		9.875				ND	
98 N-Propylbenzene	120		9.947				ND	7
100 2-Chlorotoluene	126		10.041				ND	
102 4-Chlorotoluene	126		10.160				ND	
103 tert-Butylbenzene	119		10.480				ND	7
105 1,2,4-Trimethylbenzene	105	10.516	10.528	-0.012	92	4397	0.1233	
106 sec-Butylbenzene	105		10.705				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	7
108 4-Isopropyltoluene	119		10.860				ND	
109 1,4-Dichlorobenzene	146		10.919				ND	
110 1,2,3-Trimethylbenzene	105		10.966				ND	
112 n-Butylbenzene	91		11.287				ND	
113 1,2-Dichlorobenzene	146		11.310				ND	
114 1,2-Dibromo-3-Chloropropane	157		12.129				ND	
116 1,2,4-Trichlorobenzene	180		13.018				ND	
117 Hexachlorobutadiene	225		13.208				ND	
118 Naphthalene	128		13.279				ND	7
119 1,2,3-Trichlorobenzene	180		13.540				ND	
S 128 Xylenes, Total	106				0		0.3461	
T 131 Chlorodifluoromethane TIC	51		1.640				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL	Run Reagent

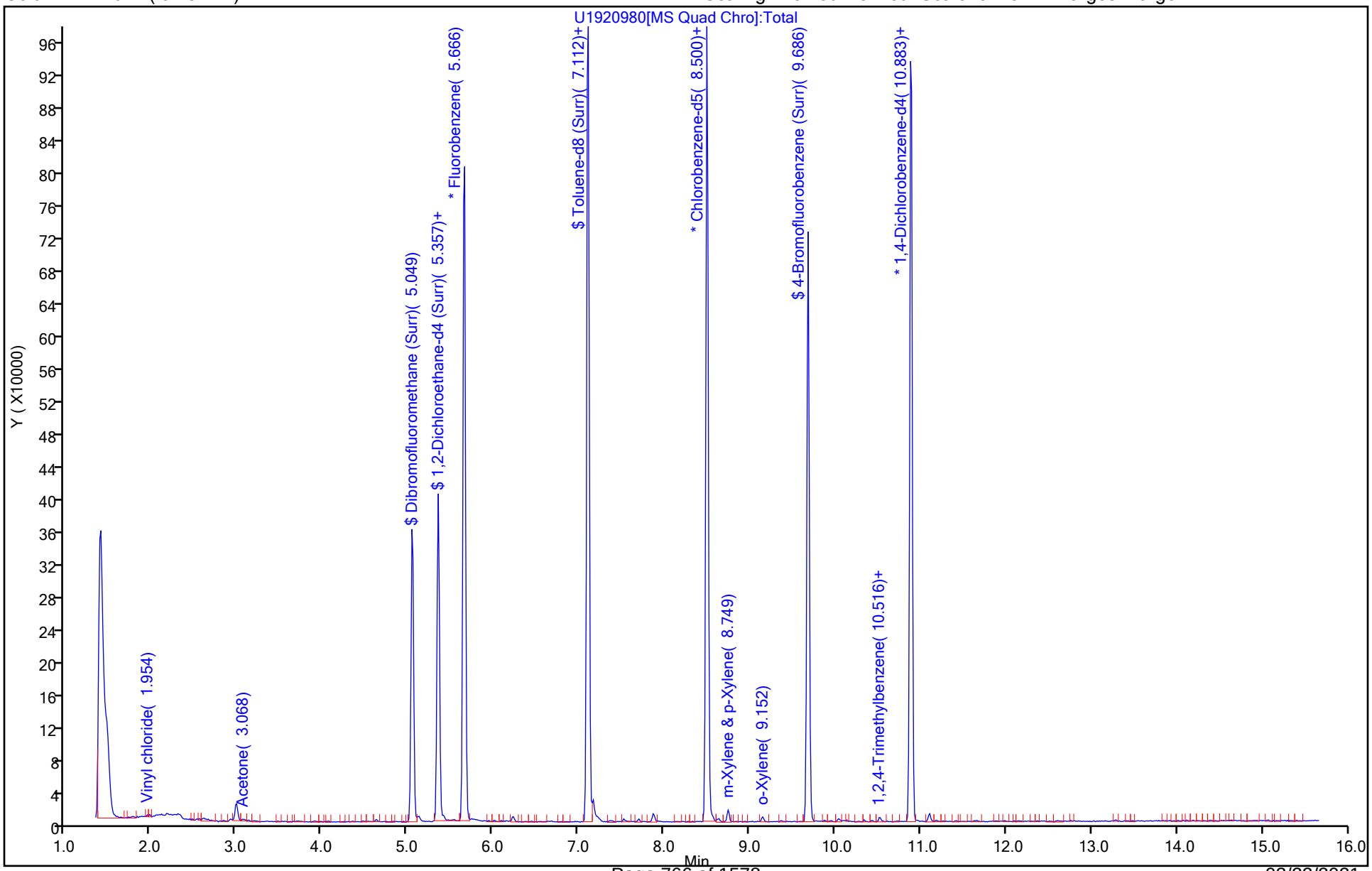
Report Date: 16-Mar-2021 14:40:11 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920980.d

Injection Date:	16-Mar-2021 04:37:12	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-145599-B-27	Lab Sample ID:	240-145599-27	Worklist Smp#:	24
Client ID:	MSA-SW44C-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920980.d				
Lims ID:	240-145599-B-27				
Client ID:	MSA-SW44C-030821				
Sample Type:	Client				
Inject. Date:	16-Mar-2021 04:37:12	ALS Bottle#:	0	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107293-024				
Operator ID:	001904	Instrument ID:	A3UX19		
Method:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	16-Mar-2021 14:39:03	Calib Date:	09-Jun-2020 21:22:13		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1634				

First Level Reviewer: laveyt Date: 16-Mar-2021 14:40:11

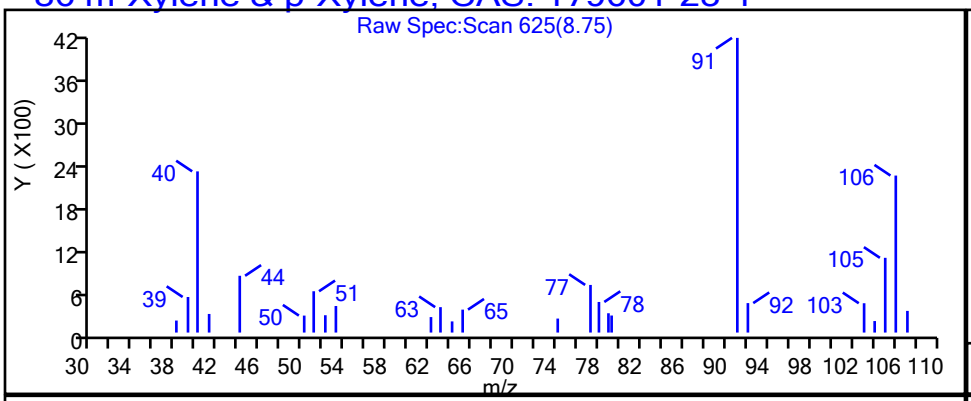
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.4	116.89
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	25.7	128.30
$ 6 Toluene-d8 (Surr)	20.0	21.2	106.16
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.4	102.14

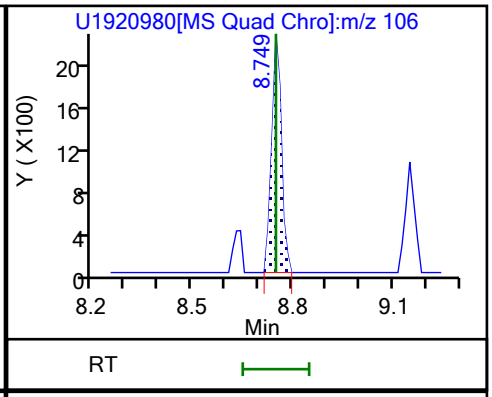
Report Date: 16-Mar-2021 14:40:12 Chrom Revision: 2.3 05-Feb-2021 00:13:28

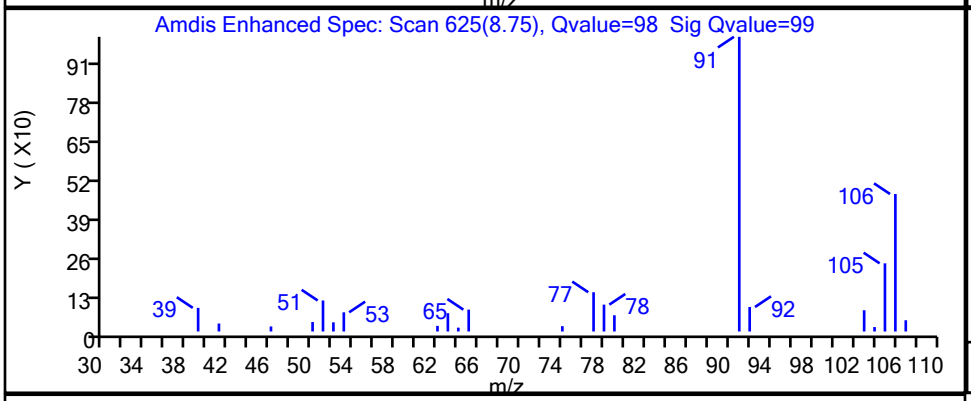
Eurofins TestAmerica, Canton

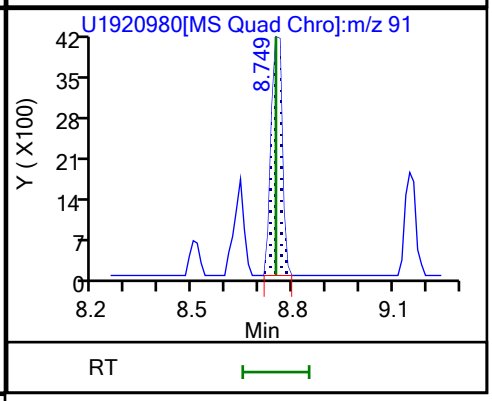
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920980.d				
Injection Date:	16-Mar-2021 04:37:12	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-27	Lab Sample ID:	240-145599-27		
Client ID:	MSA-SW44C-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

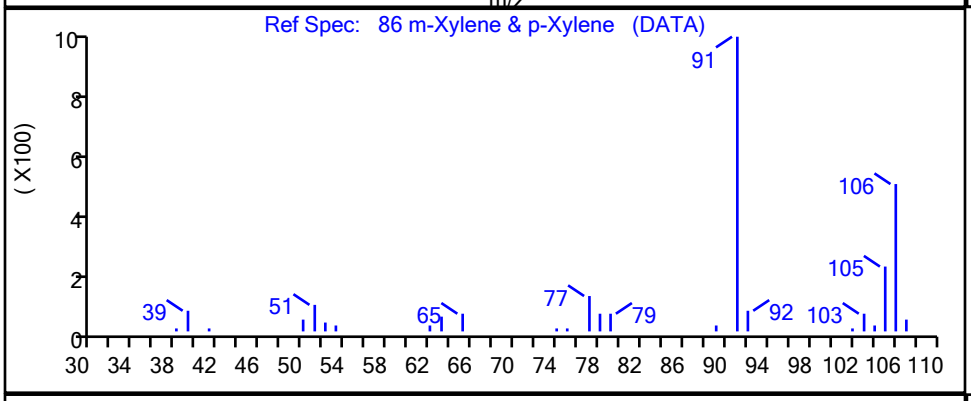
86 m-Xylene & p-Xylene, CAS: 179601-23-1

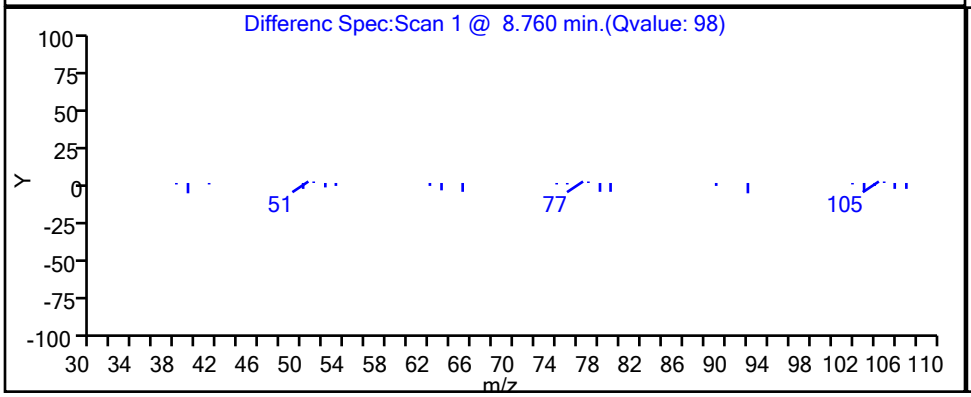


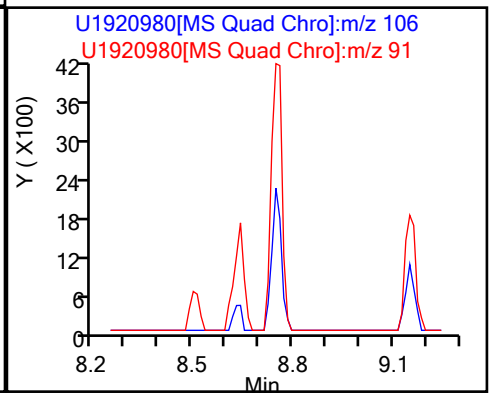










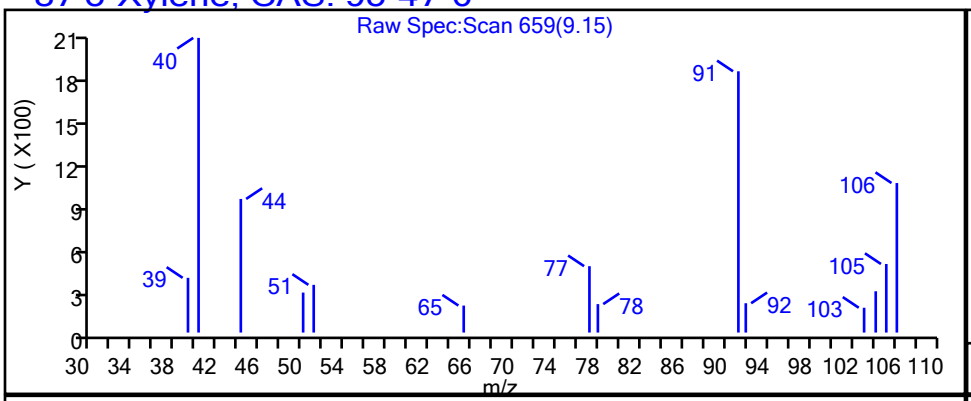


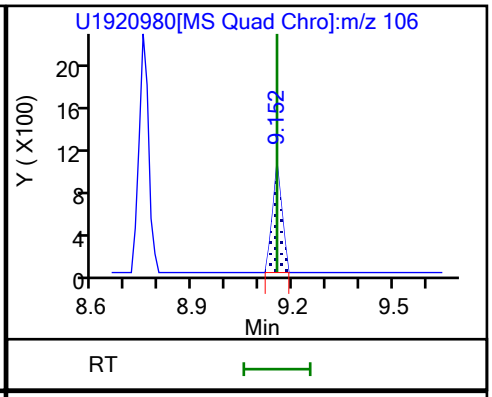
Report Date: 16-Mar-2021 14:40:12 Chrom Revision: 2.3 05-Feb-2021 00:13:28

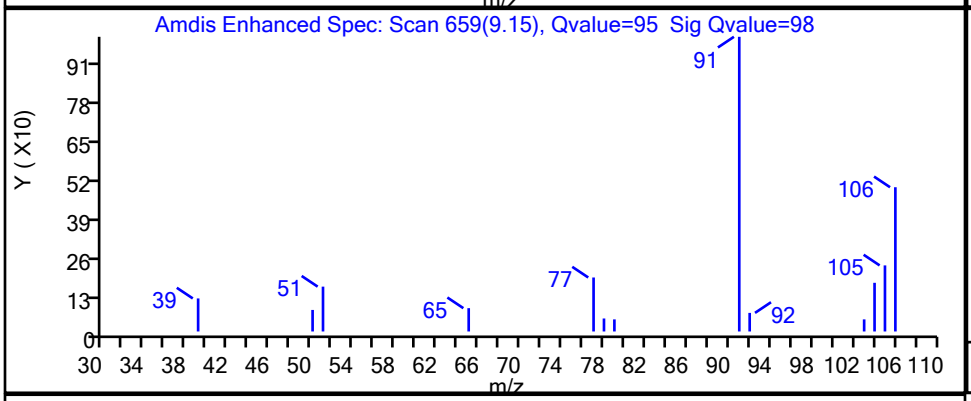
Eurofins TestAmerica, Canton

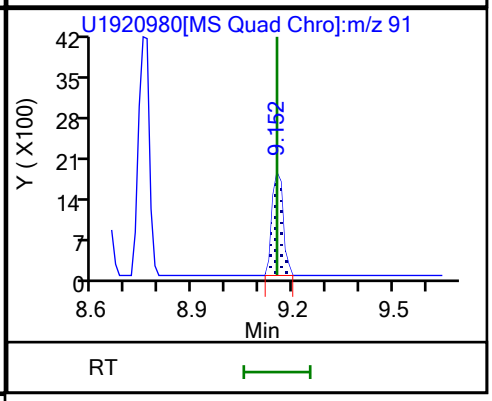
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920980.d		
Injection Date:	16-Mar-2021 04:37:12	Instrument ID:	A3UX19
Lims ID:	240-145599-B-27	Lab Sample ID:	240-145599-27
Client ID:	MSA-SW44C-030821		
Operator ID:	001904	ALS Bottle#:	0 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_19	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

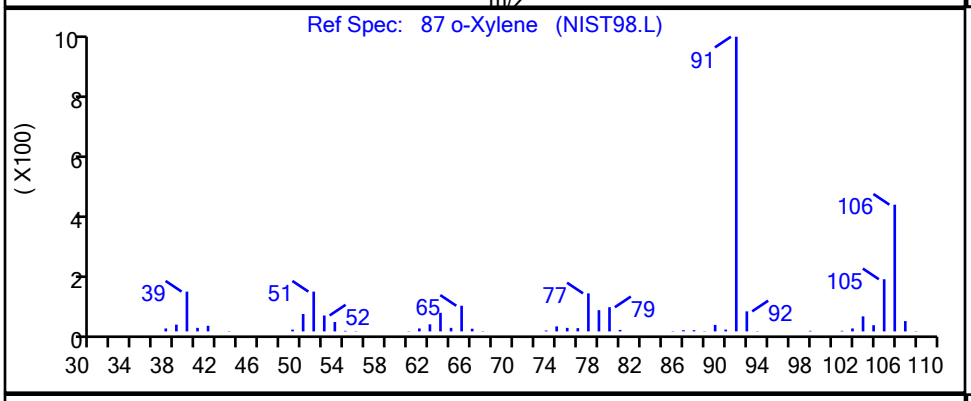
87 o-Xylene, CAS: 95-47-6

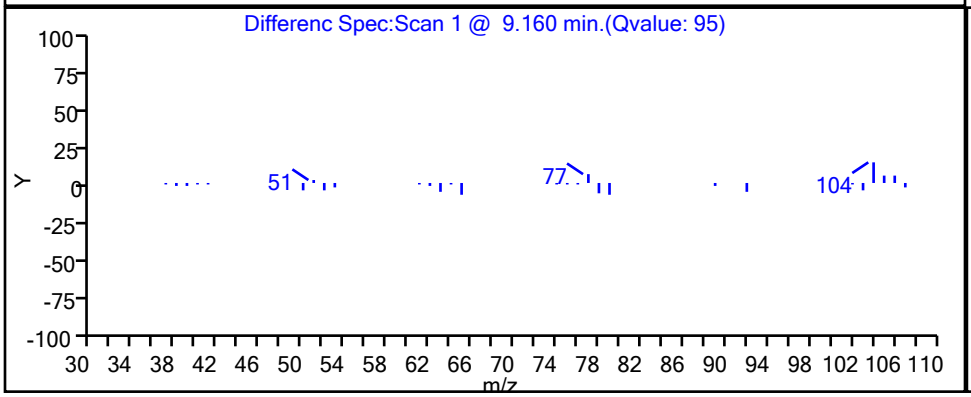


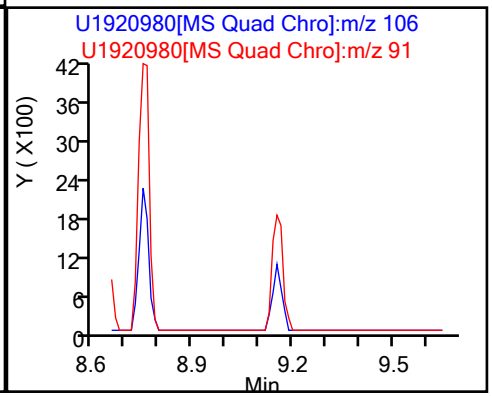










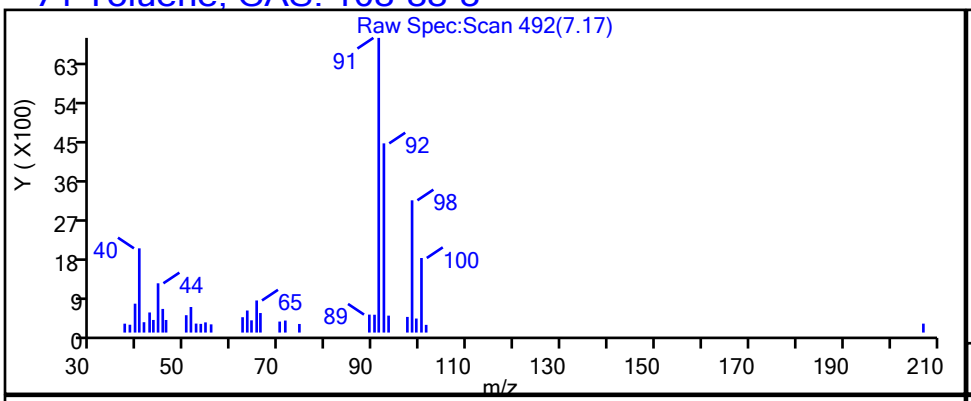


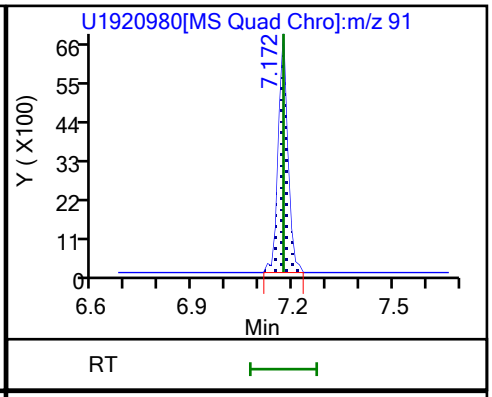
Report Date: 16-Mar-2021 14:40:12 Chrom Revision: 2.3 05-Feb-2021 00:13:28

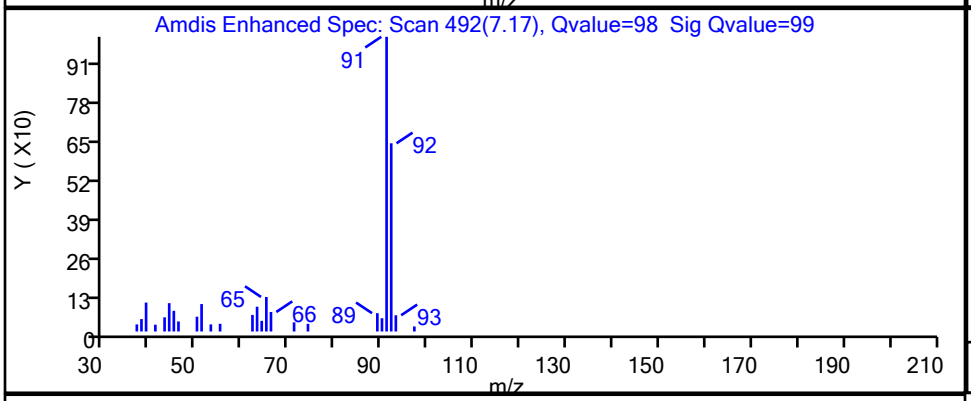
Eurofins TestAmerica, Canton

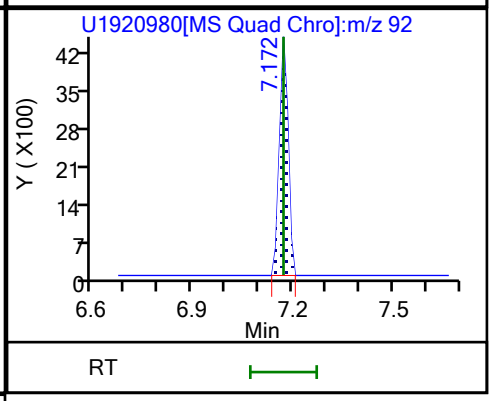
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920980.d		
Injection Date:	16-Mar-2021 04:37:12	Instrument ID:	A3UX19
Lims ID:	240-145599-B-27	Lab Sample ID:	240-145599-27
Client ID:	MSA-SW44C-030821		
Operator ID:	001904	ALS Bottle#:	0 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_19	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

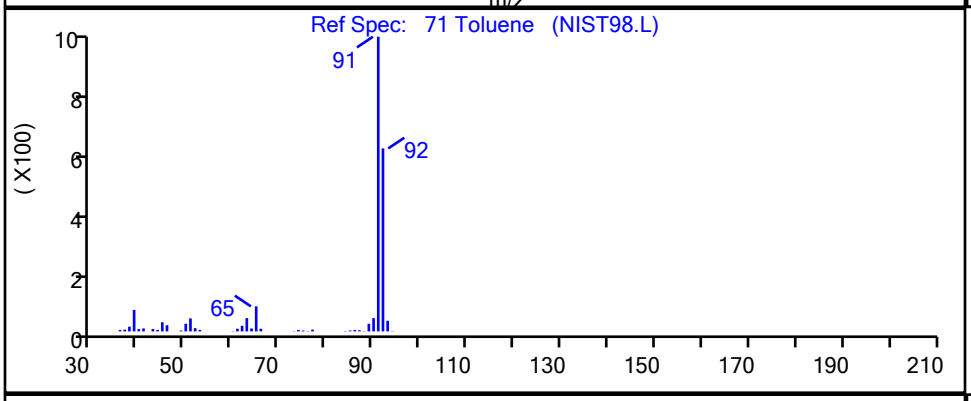
71 Toluene, CAS: 108-88-3

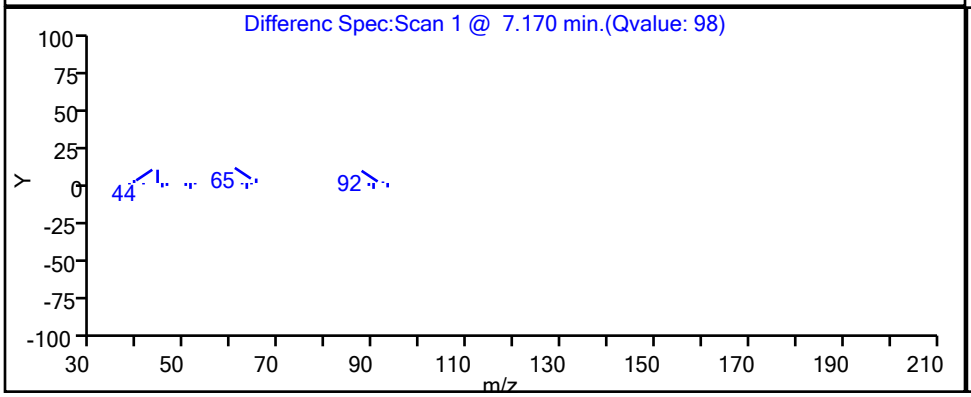


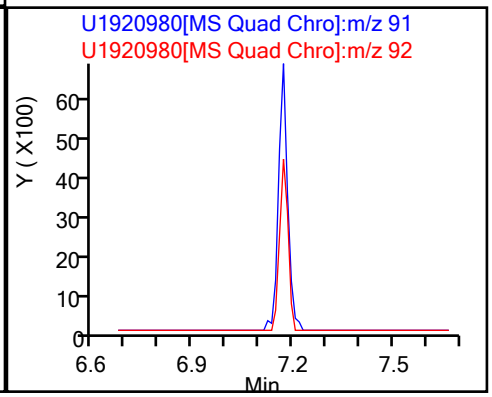










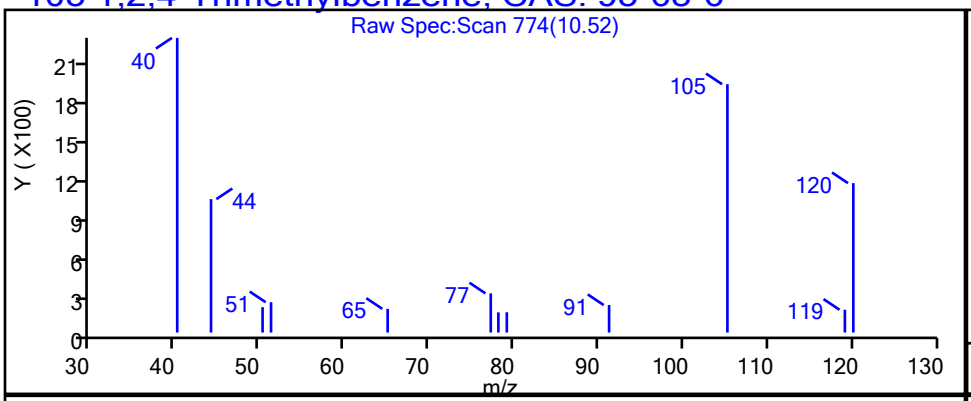


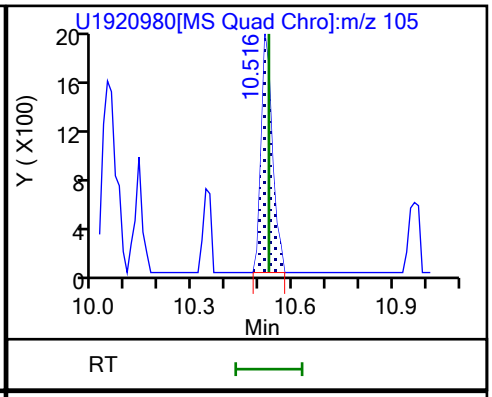
Report Date: 16-Mar-2021 14:40:12 Chrom Revision: 2.3 05-Feb-2021 00:13:28

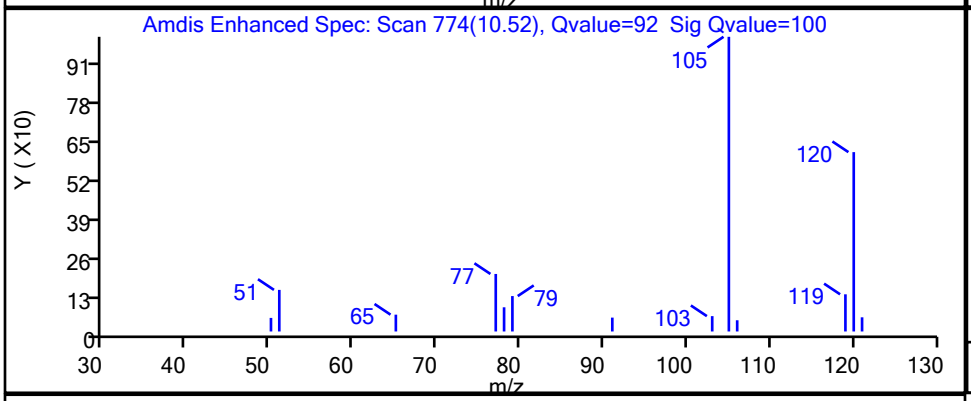
Eurofins TestAmerica, Canton

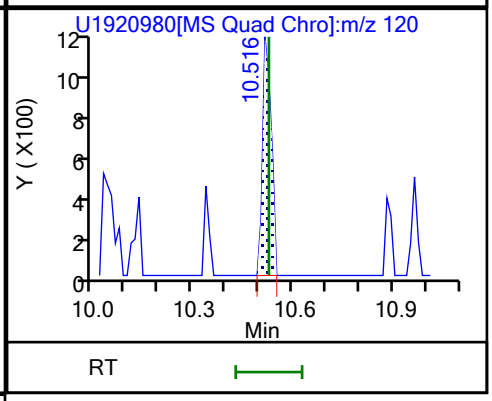
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920980.d				
Injection Date:	16-Mar-2021 04:37:12	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-27	Lab Sample ID:	240-145599-27		
Client ID:	MSA-SW44C-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

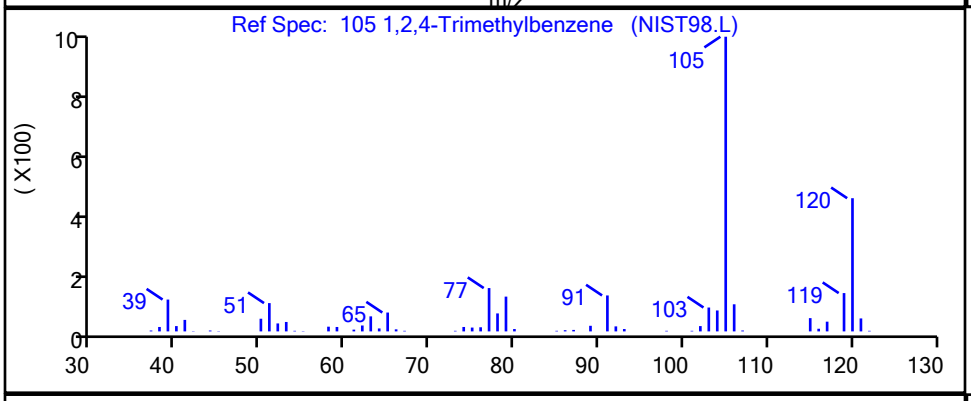
105 1,2,4-Trimethylbenzene, CAS: 95-63-6

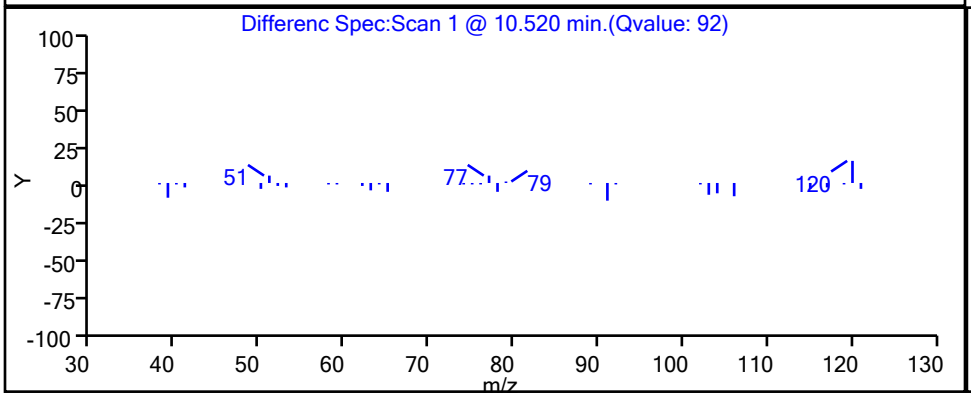


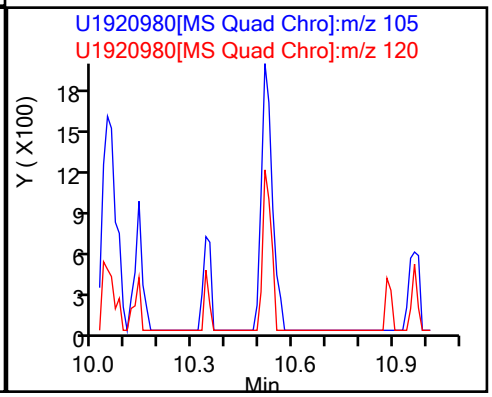












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44D-030821 Lab Sample ID: 240-145599-28

Matrix: Water Lab File ID: U1920981.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44D-030821 Lab Sample ID: 240-145599-28

Matrix: Water Lab File ID: U1920981.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.20	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.25	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44D-030821 Lab Sample ID: 240-145599-28

Matrix: Water Lab File ID: U1920981.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.20	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		47-134
1868-53-7	Dibromofluoromethane (Surr)	113		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	123		75-130
2037-26-5	Toluene-d8 (Surr)	104		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44D-030821 Lab Sample ID: 240-145599-28

Matrix: Water Lab File ID: U1920981.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW44D-030821 Lab Sample ID: 240-145599-28

Matrix: Water Lab File ID: U1920981.d

Analysis Method: 8260C Date Collected: 03/08/2021 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920981.d
Lims ID: 240-145599-B-28
Client ID: MSA-SW44D-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 05:17:30 ALS Bottle#: 0 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-025
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:40:38 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:40:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.666	5.666	0.000	98	797023	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	89	656970	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	97	315700	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.061	5.049	0.012	92	242766	22.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	97	302279	24.5	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	94	821814	20.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.686	9.686	0.000	85	292824	19.8	
9 Dichlorodifluoromethane	85		1.610				ND	
10 Chloromethane	50		1.811				ND	
12 Vinyl chloride	62		1.918				ND	7
13 Bromomethane	94		2.238				ND	
15 Chloroethane	64		2.310				ND	7
17 Trichlorofluoromethane	101		2.594				ND	
20 1,1-Dichloroethene	61		3.033				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	99	7590	2.43	
25 Carbon disulfide	76		3.246				ND	7
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.578	3.578	0.000	5	279	0.2585	
32 trans-1,2-Dichloroethene	61		3.733				ND	
33 Methyl tert-butyl ether	73		3.744				ND	7
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.148				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
42 2,2-Dichloropropane	77		4.634				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	7
40 2-Butanone (MEK)	72		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.084				ND	
52 Carbon tetrachloride	117		5.239				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		5.239				ND	
54 Benzene	78		5.417				ND	7
55 1,2-Dichloroethane	62		5.428				ND	7
56 Tert-amyl methyl ether	73		5.511				ND	
59 Trichloroethene	130		5.998				ND	
62 1,2-Dichloropropane	63		6.199				ND	
64 Dibromomethane	174		6.306				ND	
66 Dichlorobromomethane	83		6.436				ND	
68 2-Chloroethyl vinyl ether	63		6.697				ND	
69 cis-1,3-Dichloropropene	75		6.851				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
71 Toluene	91	7.172	7.172	0.000	99	10904	0.2456	
72 trans-1,3-Dichloropropene	75		7.361				ND	
75 Tetrachloroethene	166		7.705				ND	7
76 1,3-Dichloropropane	76		7.705				ND	
77 2-Hexanone	43		7.776				ND	U
79 Chlorodibromomethane	129		7.931				ND	
81 Ethylene Dibromide	107		8.049				ND	
83 Chlorobenzene	112		8.535				ND	
84 1,1,1,2-Tetrachloroethane	131		8.606				ND	
85 Ethylbenzene	106		8.630				ND	7
86 m-Xylene & p-Xylene	106	8.749	8.749	0.000	98	3801	0.1964	
87 o-Xylene	106		9.152				ND	7
88 Styrene	104		9.164				ND	
89 Bromoform	173		9.354				ND	
90 Isopropylbenzene	105		9.531				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.852				ND	
96 1,2,3-Trichloropropane	110		9.875				ND	
98 N-Propylbenzene	120		9.947				ND	7
100 2-Chlorotoluene	126		10.041				ND	
102 4-Chlorotoluene	126		10.160				ND	
103 tert-Butylbenzene	119		10.480				ND	7
105 1,2,4-Trimethylbenzene	105		10.528				ND	7
106 sec-Butylbenzene	105		10.705				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	7
108 4-Isopropyltoluene	119		10.860				ND	
109 1,4-Dichlorobenzene	146		10.919				ND	7
110 1,2,3-Trimethylbenzene	105		10.966				ND	
112 n-Butylbenzene	91		11.287				ND	
113 1,2-Dichlorobenzene	146		11.310				ND	
114 1,2-Dibromo-3-Chloropropane	157		12.129				ND	
116 1,2,4-Trichlorobenzene	180		13.018				ND	
117 Hexachlorobutadiene	225		13.208				ND	
118 Naphthalene	128		13.279				ND	7
119 1,2,3-Trichlorobenzene	180		13.540				ND	
S 128 Xylenes, Total	106				0		0.1964	
T 131 Chlorodifluoromethane TIC	51		1.640				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL	Run Reagent

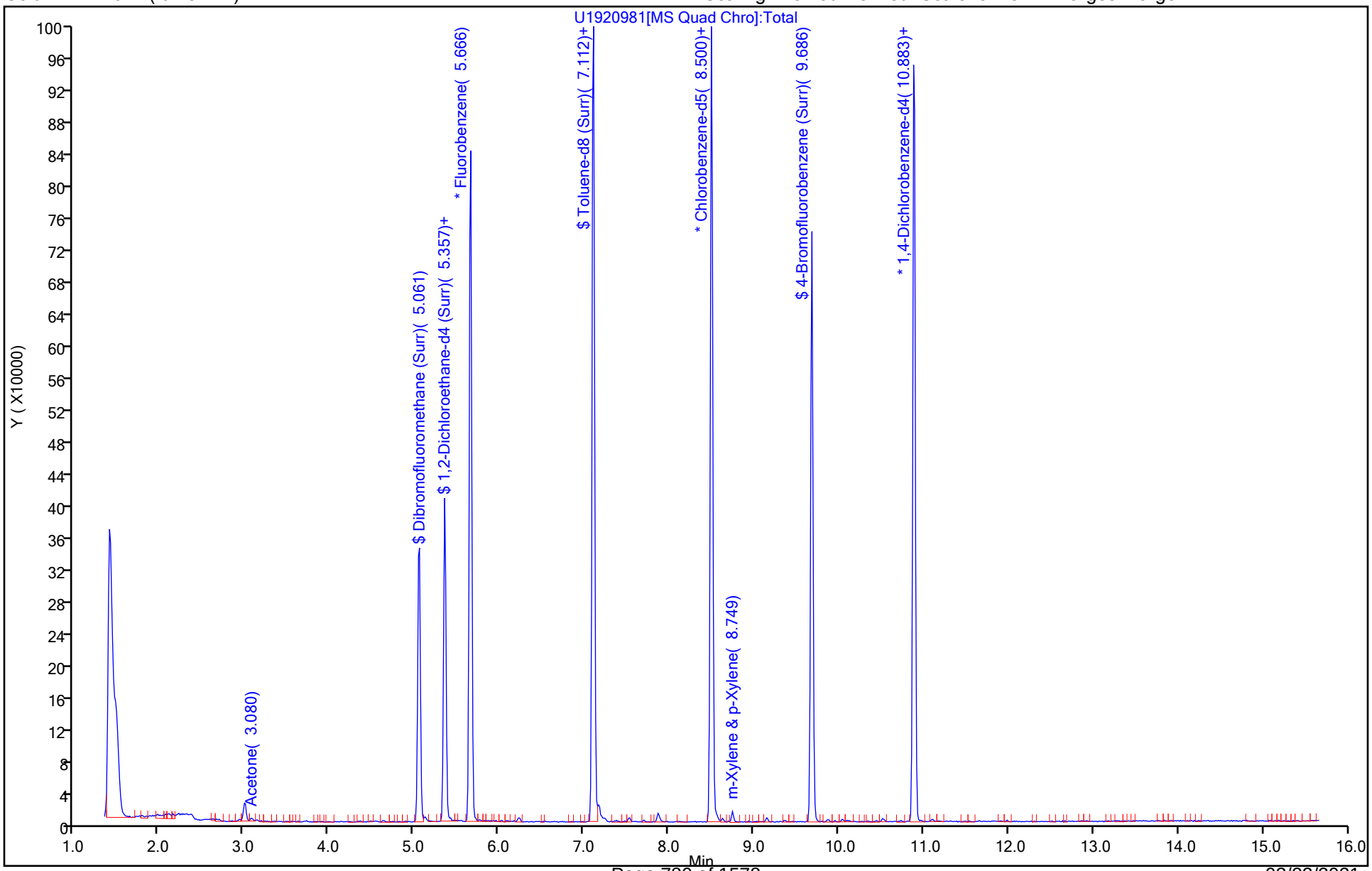
Report Date: 16-Mar-2021 14:40:38 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920981.d

Injection Date:	16-Mar-2021 05:17:30	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-145599-B-28	Lab Sample ID:	240-145599-28	Worklist Smp#:	25
Client ID:	MSA-SW44D-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920981.d
Lims ID: 240-145599-B-28
Client ID: MSA-SW44D-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 05:17:30 ALS Bottle#: 0 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-025
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:40:38 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:40:38

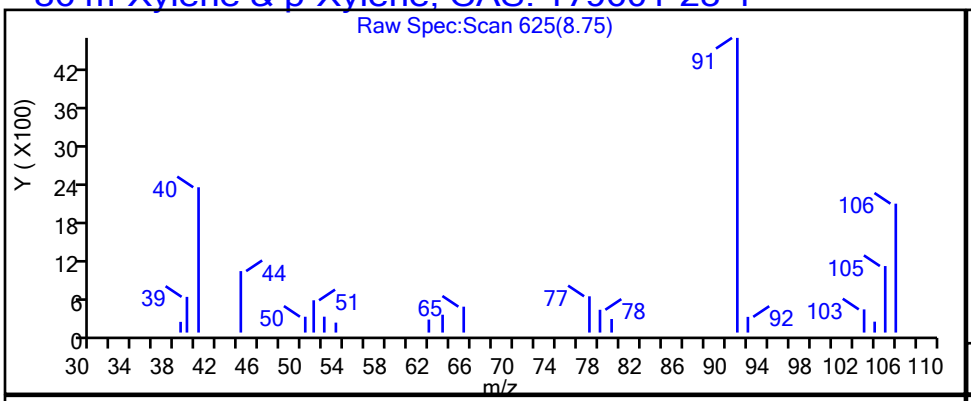
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.6	113.15
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	24.5	122.66
$ 6 Toluene-d8 (Surr)	20.0	20.9	104.31
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.8	98.77

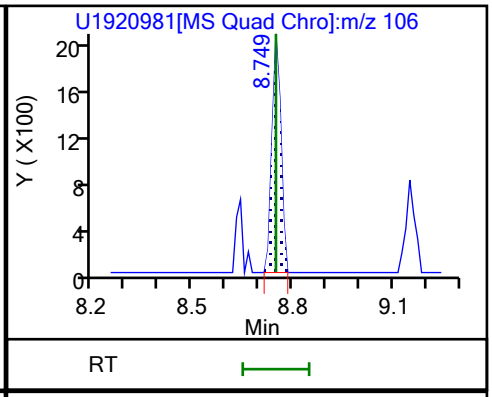
Report Date: 16-Mar-2021 14:40:38 Chrom Revision: 2.3 05-Feb-2021 00:13:28

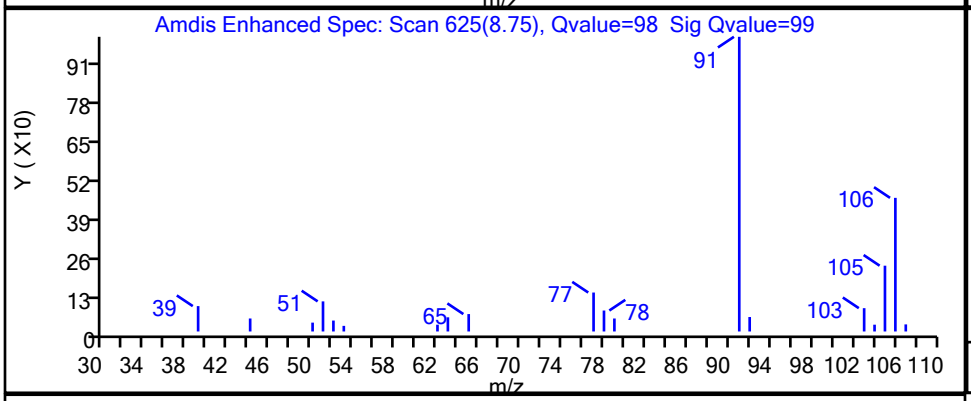
Eurofins TestAmerica, Canton

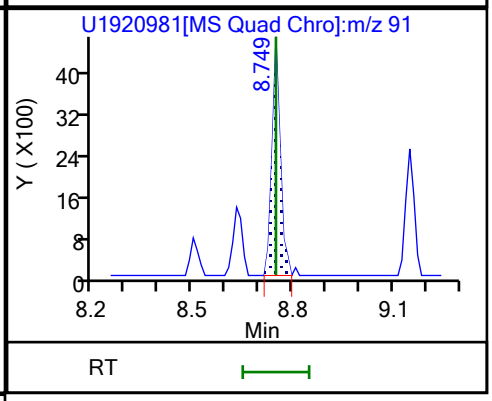
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920981.d				
Injection Date:	16-Mar-2021 05:17:30	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-28	Lab Sample ID:	240-145599-28		
Client ID:	MSA-SW44D-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

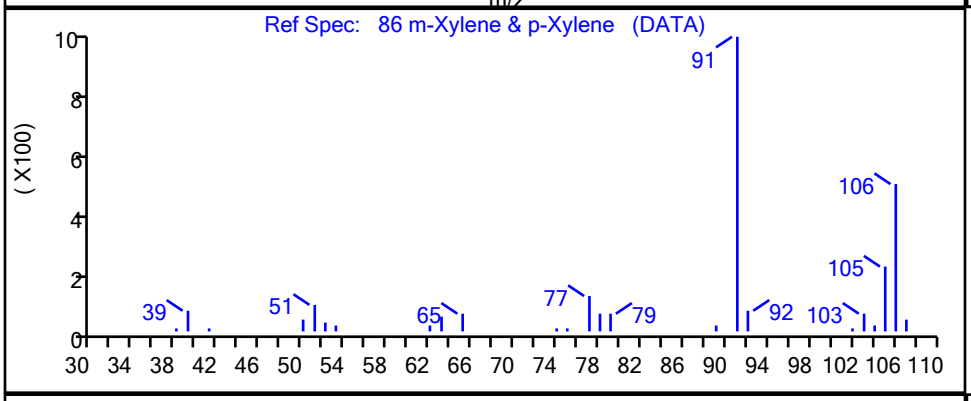
86 m-Xylene & p-Xylene, CAS: 179601-23-1

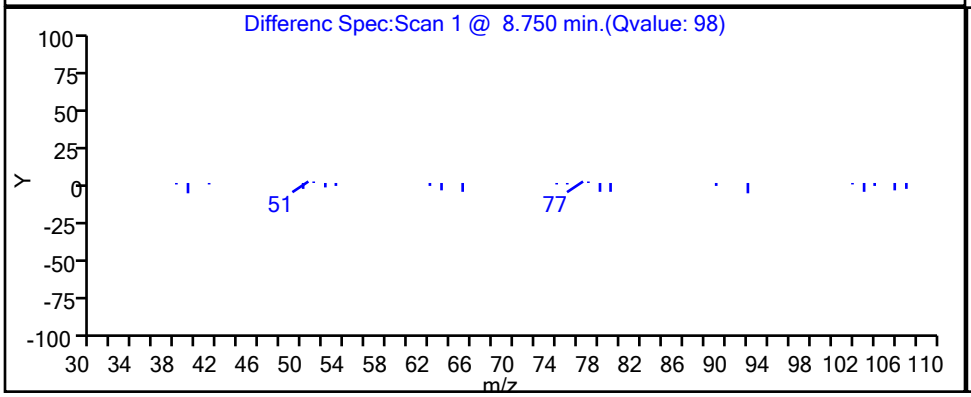


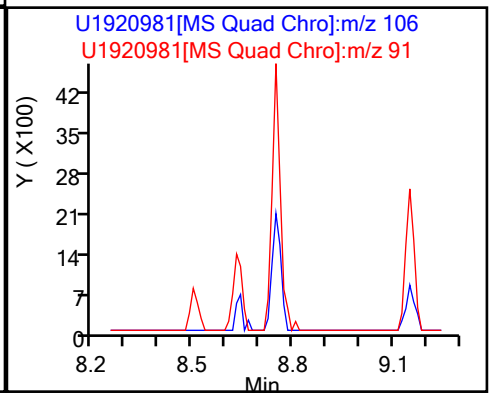








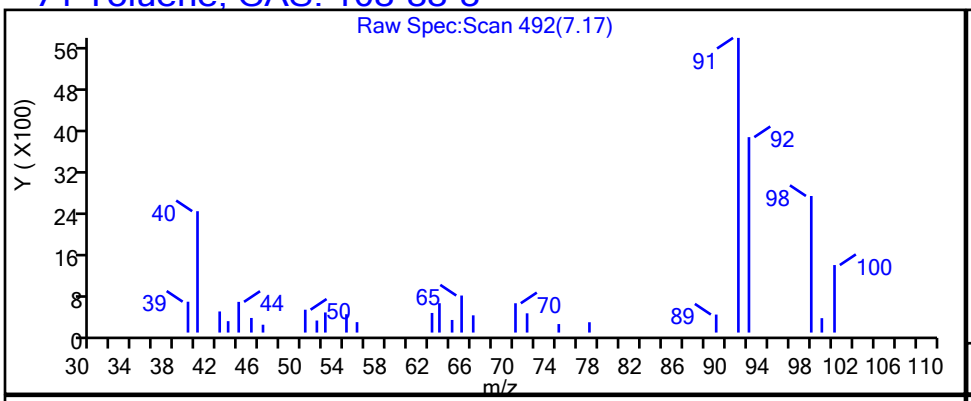


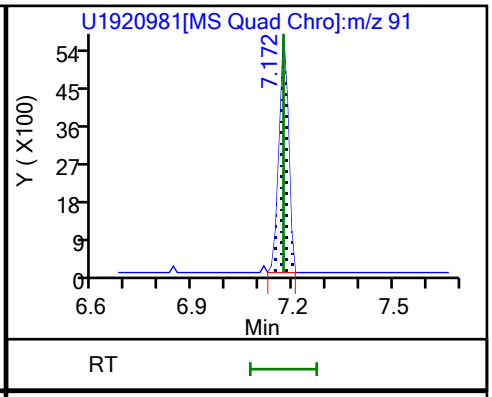


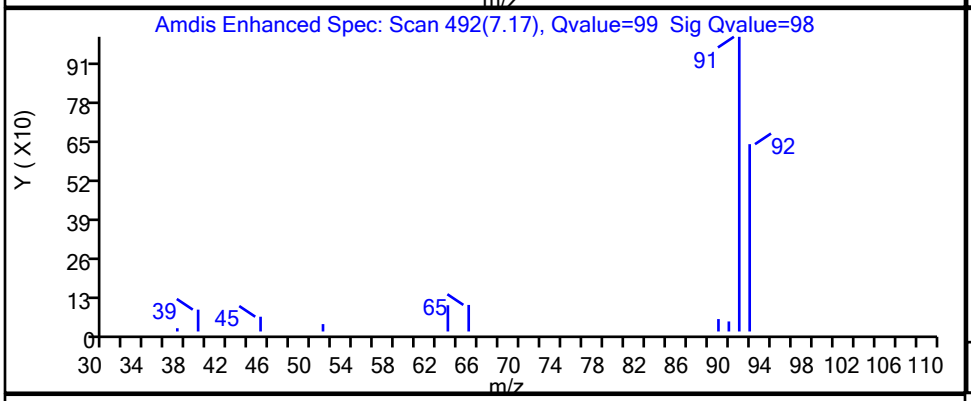
Eurofins TestAmerica, Canton

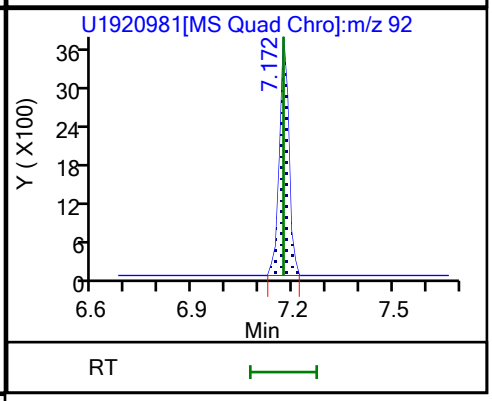
Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920981.d		
Injection Date:	16-Mar-2021 05:17:30	Instrument ID:	A3UX19
Lims ID:	240-145599-B-28	Lab Sample ID:	240-145599-28
Client ID:	MSA-SW44D-030821		
Operator ID:	001904	ALS Bottle#:	0 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_19	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

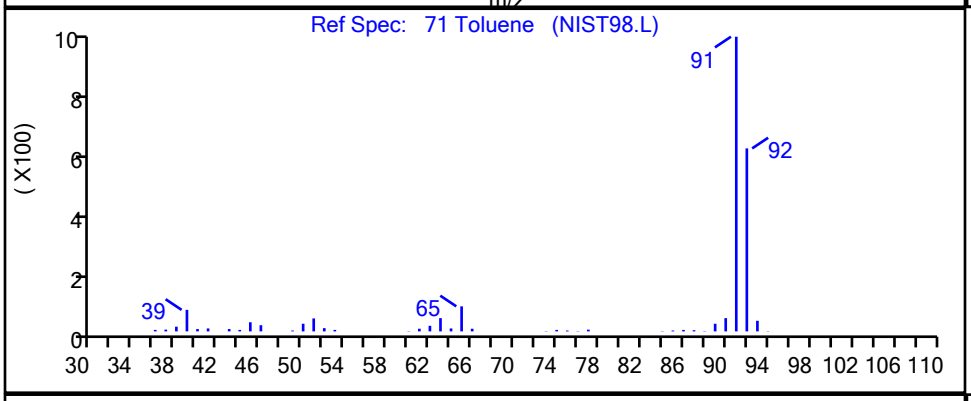
71 Toluene, CAS: 108-88-3

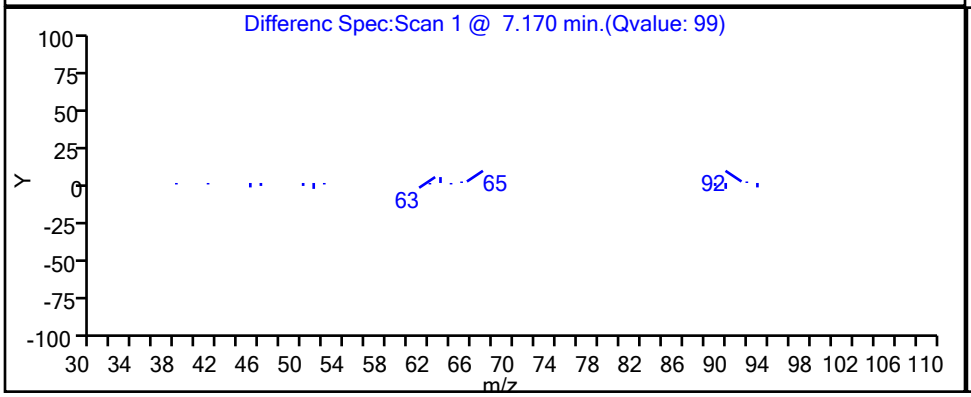


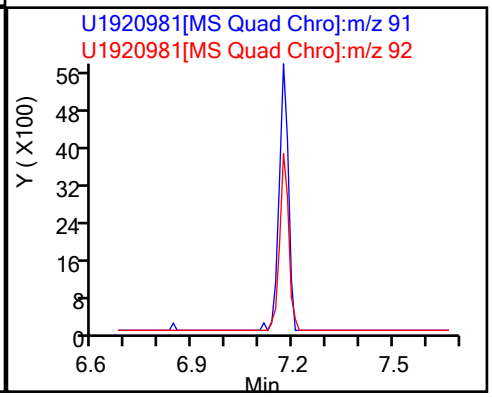












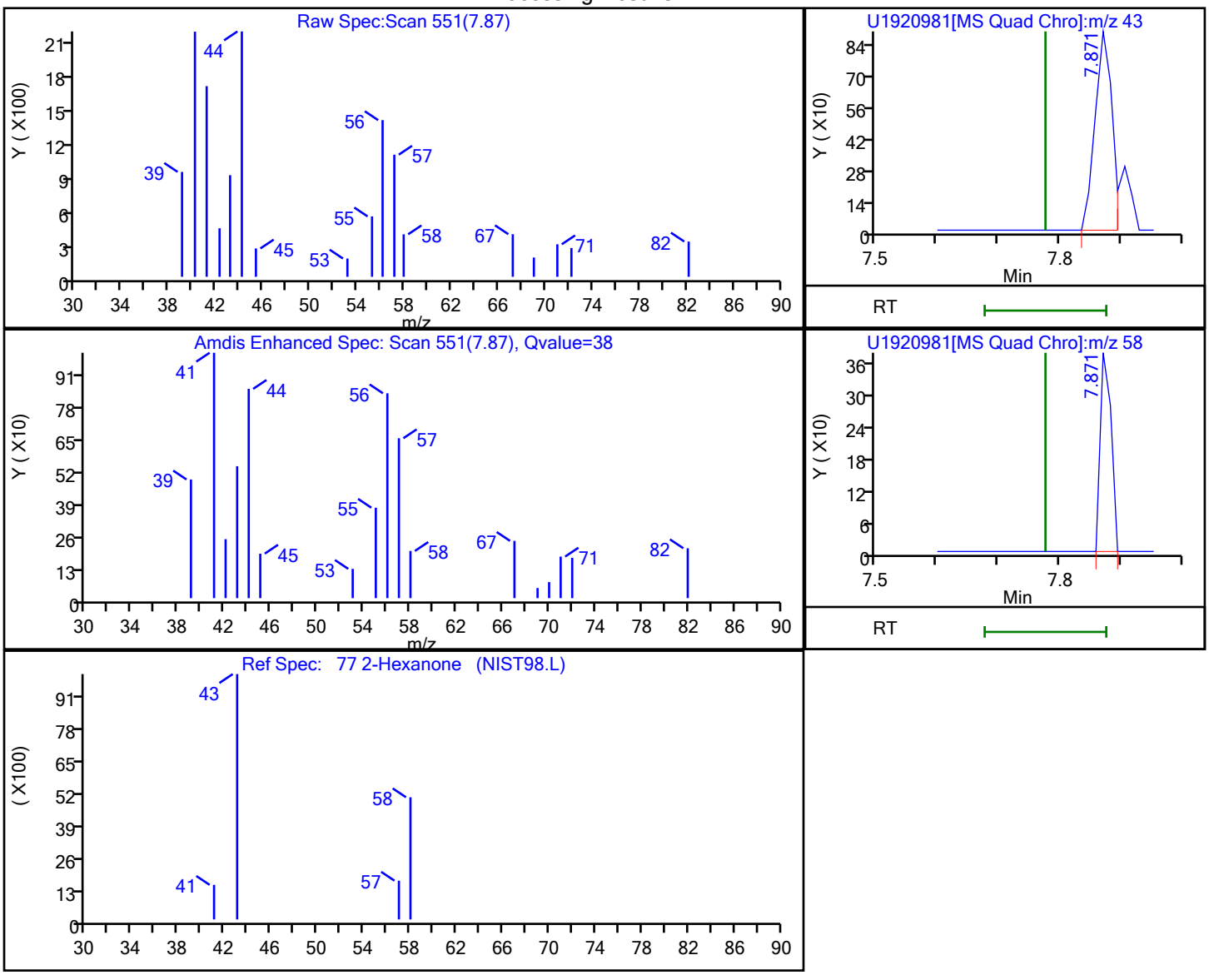
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920981.d				
Injection Date:	16-Mar-2021 05:17:30	Instrument ID:	A3UX19		
Lims ID:	240-145599-B-28	Lab Sample ID:	240-145599-28		
Client ID:	MSA-SW44D-030821				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

77 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.87	43.00	1754	0.169572
7.87	58.00	463	

Reviewer: laveyt, 16-Mar-2021 14:40:30

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: TB-030821 Lab Sample ID: 240-145599-29

Matrix: Water Lab File ID: U1920982.d

Analysis Method: 8260C Date Collected: 03/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: TB-030821 Lab Sample ID: 240-145599-29

Matrix: Water Lab File ID: U1920982.d

Analysis Method: 8260C Date Collected: 03/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: TB-030821 Lab Sample ID: 240-145599-29

Matrix: Water Lab File ID: U1920982.d

Analysis Method: 8260C Date Collected: 03/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		47-134
1868-53-7	Dibromofluoromethane (Surr)	115		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	128		75-130
2037-26-5	Toluene-d8 (Surr)	107		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: TB-030821 Lab Sample ID: 240-145599-29

Matrix: Water Lab File ID: U1920982.d

Analysis Method: 8260C Date Collected: 03/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: TB-030821 Lab Sample ID: 240-145599-29

Matrix: Water Lab File ID: U1920982.d

Analysis Method: 8260C Date Collected: 03/08/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 05:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920982.d
Lims ID: 240-145599-A-29
Client ID: TB-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 05:48:07 ALS Bottle#: 0 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-026
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 14:40:38 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: laveyt Date: 16-Mar-2021 14:41:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.666	5.666	0.000	98	802007	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	89	647457	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	97	308548	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.049	5.049	0.000	92	248775	23.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	97	317930	25.6	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	94	830936	21.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.686	9.686	0.000	86	298620	20.4	
9 Dichlorodifluoromethane	85		1.610				ND	
10 Chloromethane	50		1.811				ND	
12 Vinyl chloride	62		1.918				ND	
13 Bromomethane	94		2.238				ND	7
15 Chloroethane	64		2.310				ND	7
17 Trichlorofluoromethane	101		2.594				ND	
20 1,1-Dichloroethene	61		3.033				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	65	2390	0.7601	
25 Carbon disulfide	76		3.246				ND	7
29 Methylene Chloride	49		3.484				ND	7
30 2-Methyl-2-propanol	59		3.578				ND	
32 trans-1,2-Dichloroethene	61		3.733				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.148				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
42 2,2-Dichloropropane	77		4.634				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	
40 2-Butanone (MEK)	72		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.084				ND	
52 Carbon tetrachloride	117		5.239				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 1,1-Dichloropropene	75		5.239				ND	
54 Benzene	78		5.417				ND	
55 1,2-Dichloroethane	62		5.428				ND	7
56 Tert-amyl methyl ether	73		5.511				ND	
59 Trichloroethene	130		5.998				ND	
62 1,2-Dichloropropane	63		6.199				ND	
64 Dibromomethane	174		6.306				ND	
66 Dichlorobromomethane	83		6.436				ND	
68 2-Chloroethyl vinyl ether	63		6.697				ND	
69 cis-1,3-Dichloropropene	75		6.851				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.982				ND	
71 Toluene	91		7.172				ND	7
72 trans-1,3-Dichloropropene	75		7.361				ND	
75 Tetrachloroethene	166		7.705				ND	7
76 1,3-Dichloropropane	76		7.705				ND	
77 2-Hexanone	43		7.776				ND	
79 Chlorodibromomethane	129		7.931				ND	
81 Ethylene Dibromide	107		8.049				ND	
83 Chlorobenzene	112		8.535				ND	
84 1,1,1,2-Tetrachloroethane	131		8.606				ND	
85 Ethylbenzene	106		8.630				ND	
86 m-Xylene & p-Xylene	106		8.749				ND	
87 o-Xylene	106		9.152				ND	
88 Styrene	104		9.164				ND	
89 Bromoform	173		9.354				ND	
90 Isopropylbenzene	105		9.531				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.852				ND	
96 1,2,3-Trichloropropane	110		9.875				ND	
98 N-Propylbenzene	120		9.947				ND	
100 2-Chlorotoluene	126		10.041				ND	
102 4-Chlorotoluene	126		10.160				ND	
103 tert-Butylbenzene	119		10.480				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.705				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	7
108 4-Isopropyltoluene	119		10.860				ND	
109 1,4-Dichlorobenzene	146		10.919				ND	7
110 1,2,3-Trimethylbenzene	105		10.966				ND	
112 n-Butylbenzene	91		11.287				ND	
113 1,2-Dichlorobenzene	146		11.310				ND	
114 1,2-Dibromo-3-Chloropropane	157		12.129				ND	
116 1,2,4-Trichlorobenzene	180		13.018				ND	
117 Hexachlorobutadiene	225		13.208				ND	
118 Naphthalene	128		13.279				ND	
119 1,2,3-Trichlorobenzene	180		13.540				ND	
S 128 Xylenes, Total	106		16.520				ND	
T 131 Chlorodifluoromethane TIC	51		1.640				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL	Run Reagent

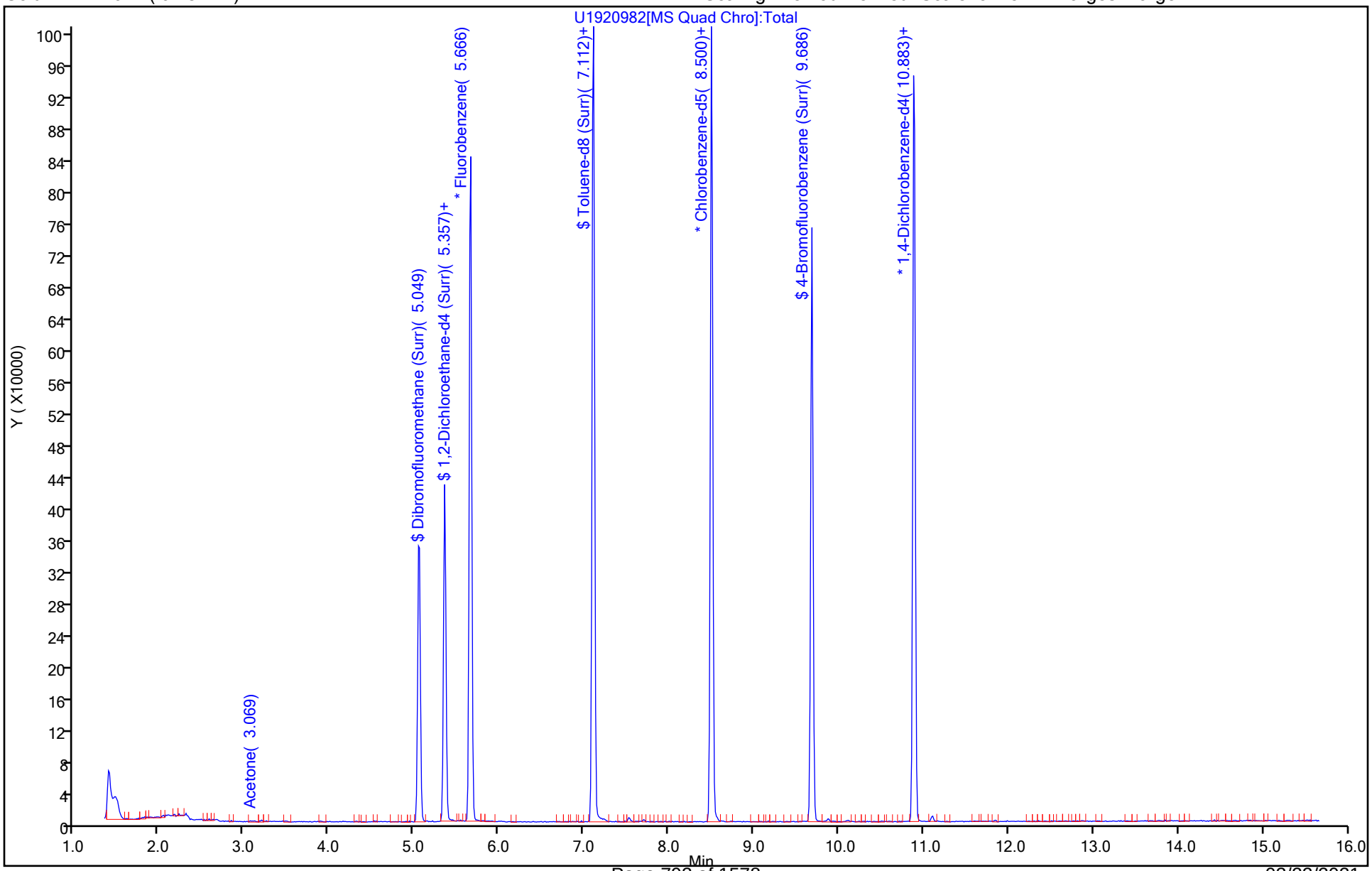
Report Date: 16-Mar-2021 14:41:00 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920982.d

Injection Date:	16-Mar-2021 05:48:07	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-145599-A-29	Lab Sample ID:	240-145599-29	Worklist Smp#:	26
Client ID:	TB-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920982.d				
Lims ID:	240-145599-A-29				
Client ID:	TB-030821				
Sample Type:	Client				
Inject. Date:	16-Mar-2021 05:48:07	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107293-026				
Operator ID:	001904	Instrument ID:	A3UX19		
Method:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	16-Mar-2021 14:40:38	Calib Date:	09-Jun-2020 21:22:13		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1634				

First Level Reviewer: laveyt Date: 16-Mar-2021 14:41:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.0	115.23
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	25.6	128.21
$ 6 Toluene-d8 (Surr)	20.0	21.4	107.01
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.4	102.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UXM35692.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	2.1		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UXM35692.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.23	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.12	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.30	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.10	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
1330-20-7	Xylenes, Total	0.35	J	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UXM35692.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		47-134
1868-53-7	Dibromofluoromethane (Surr)	103		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
2037-26-5	Toluene-d8 (Surr)	93		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UXM35692.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UXM35692.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35692.D
Lims ID: 240-145599-B-30
Client ID: MSA-SW46A-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 15:10:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-014
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 20:02:51 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 08:07:30

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	1007683	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	85	823376	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	438664	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	282529	25.7	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	299177	25.2	
$	6 Toluene-d8 (Surr)	98	7.257	7.245	0.012	93	1021808	23.1	
$	7 4-Bromofluorobenzene (Surr)	95	9.712	9.712	0.000	93	437715	27.4	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	7
	11 Vinyl chloride	62	2.027	2.027	0.000	99	87633	5.14	
	13 Bromomethane	94	2.383	2.383	0.000	78	2649	0.2420	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.260				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.296	3.308	-0.012	98	2362	2.63	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.849				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	79	27876	2.14	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	51 Carbon tetrachloride	117		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	96	15382	0.2979	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.051				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112	8.621	8.620	0.001	82	3827	0.1081	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.703				ND	
85 m-Xylene & p-Xylene	106	8.822	8.810	0.012	94	5484	0.2320	
86 o-Xylene	106	9.190	9.190	0.000	88	2736	0.1212	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.545				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.043				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	88	4498	0.1030	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.791				ND	
107 4-Isopropyltoluene	119		10.802				ND	
108 1,4-Dichlorobenzene	146		10.885				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.217				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	7
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.3531	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

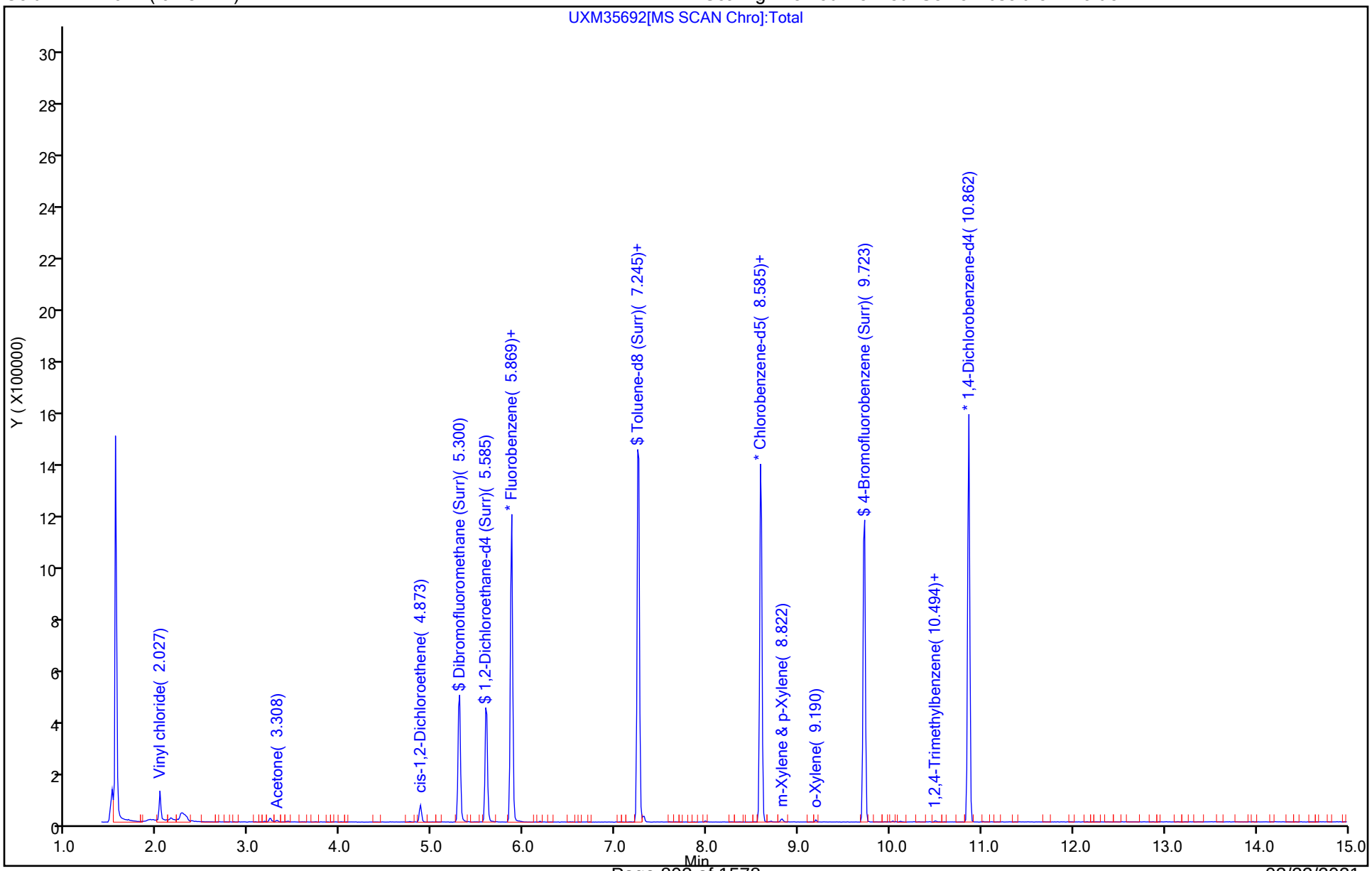
Report Date: 17-Mar-2021 08:09:16 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35692.D

Injection Date:	16-Mar-2021 15:10:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-30	Lab Sample ID:	240-145599-30	Worklist Smp#:	14
Client ID:	MSA-SW46A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35692.D				
Lims ID:	240-145599-B-30				
Client ID:	MSA-SW46A-030821				
Sample Type:	Client				
Inject. Date:	16-Mar-2021 15:10:30	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107315-014				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	16-Mar-2021 20:02:51	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1658				

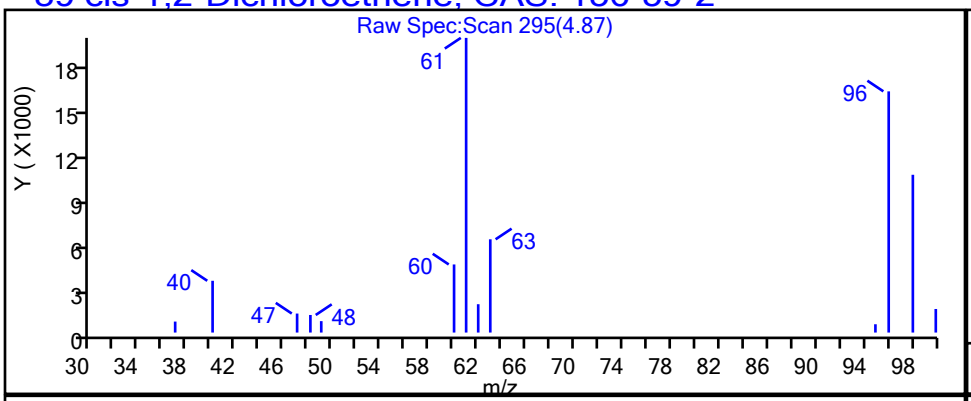
First Level Reviewer: bosworthh Date: 17-Mar-2021 08:07:30

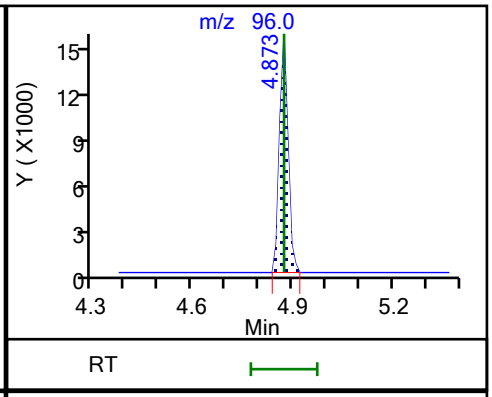
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	25.7	103.22
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.2	100.98
$ 6 Toluene-d8 (Surr)	24.9	23.1	92.62
$ 7 4-Bromofluorobenzene (Surr)	24.9	27.4	109.92

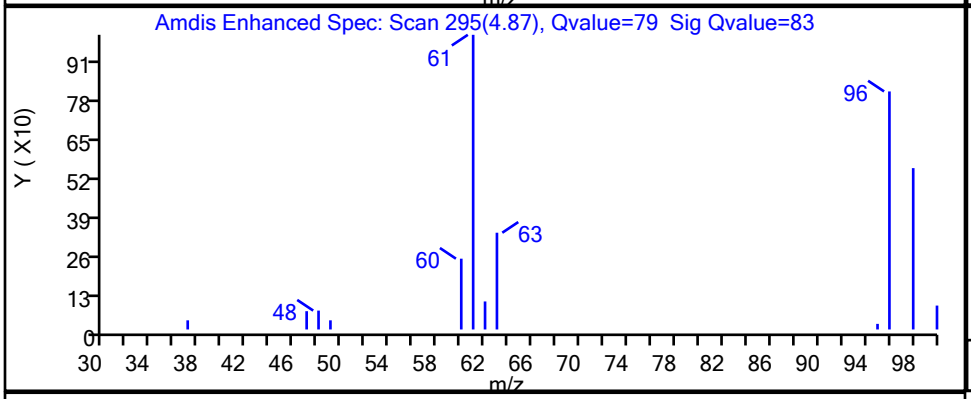
Eurofins TestAmerica, Canton

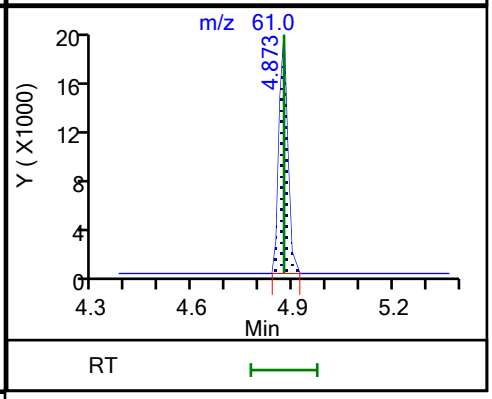
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35692.D		
Injection Date:	16-Mar-2021 15:10:30	Instrument ID:	A3UX16
Lims ID:	240-145599-B-30	Lab Sample ID:	240-145599-30
Client ID:	MSA-SW46A-030821		
Operator ID:	001765	ALS Bottle#:	14 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

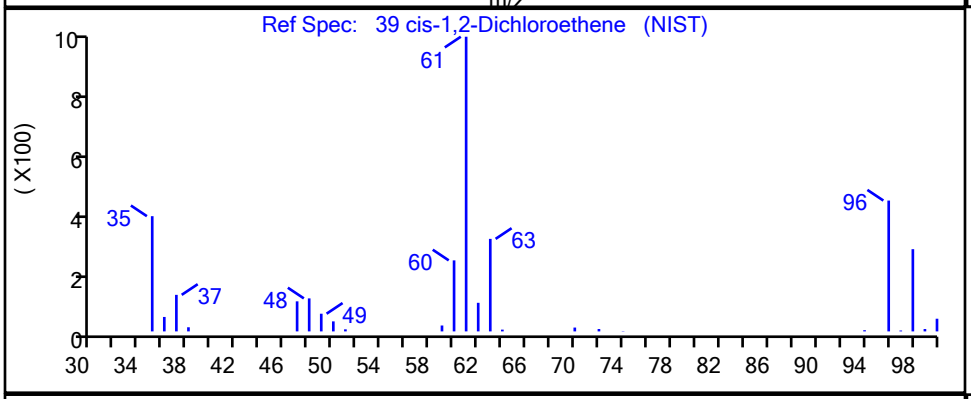
39 cis-1,2-Dichloroethene, CAS: 156-59-2

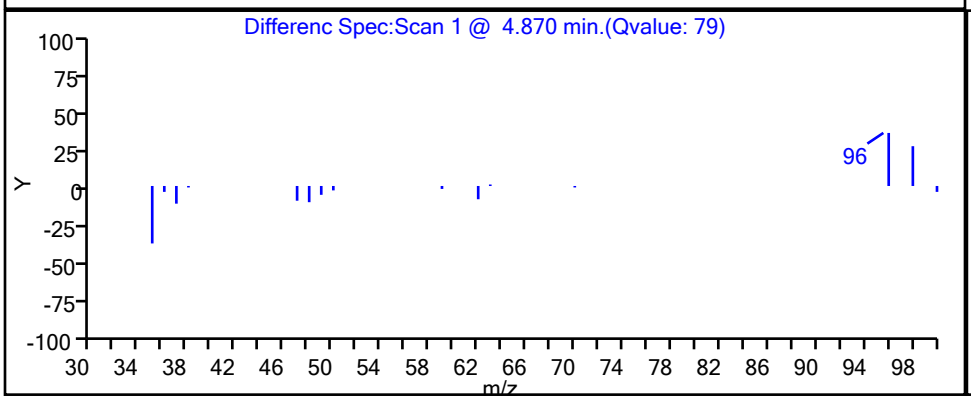


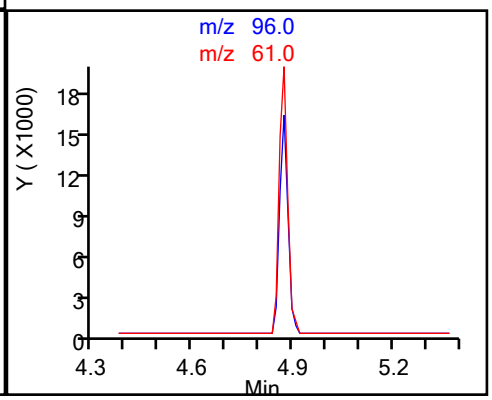








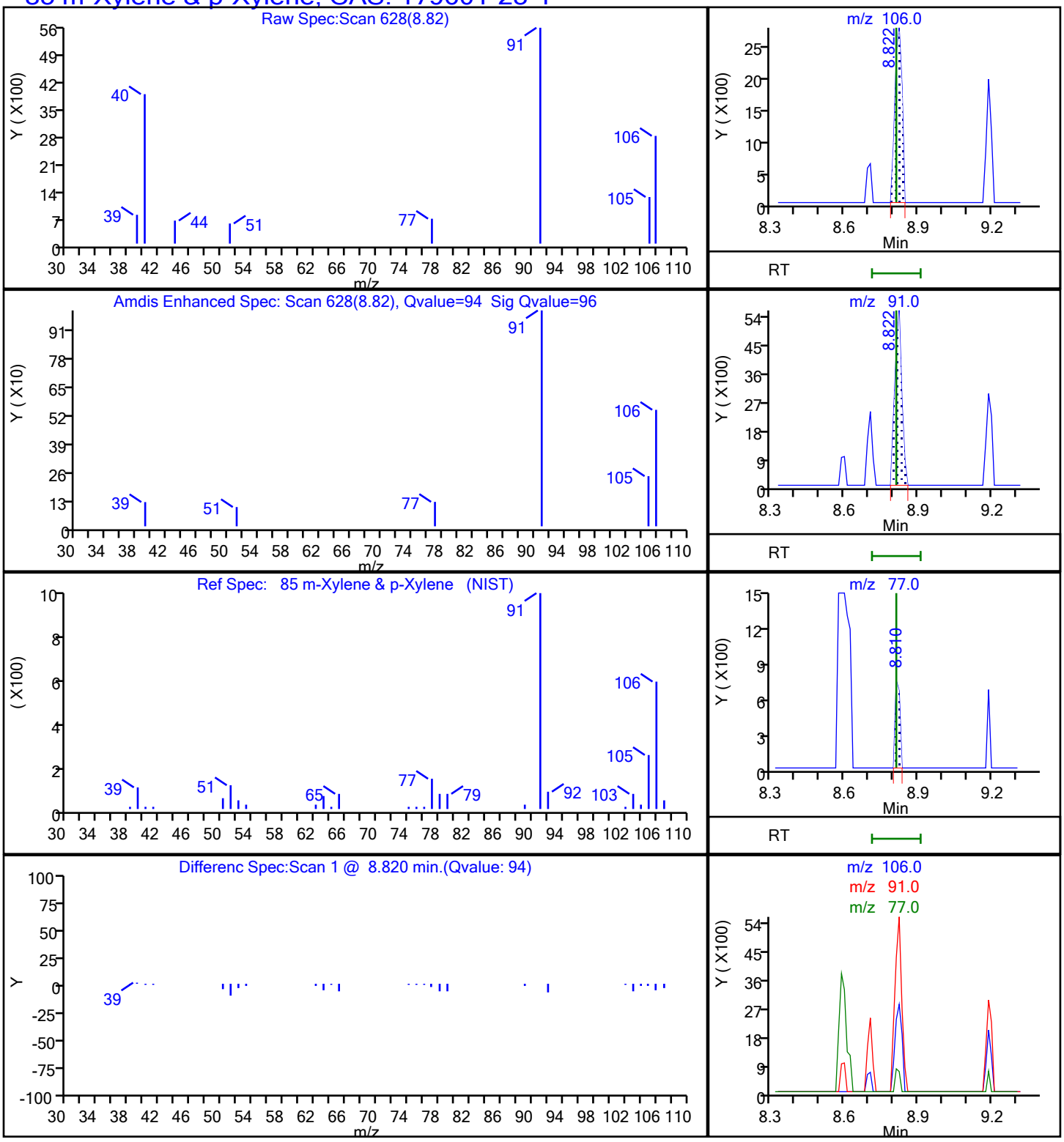




Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35692.D		
Injection Date:	16-Mar-2021 15:10:30	Instrument ID:	A3UX16
Lims ID:	240-145599-B-30	Lab Sample ID:	240-145599-30
Client ID:	MSA-SW46A-030821		
Operator ID:	001765	ALS Bottle#:	14 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

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

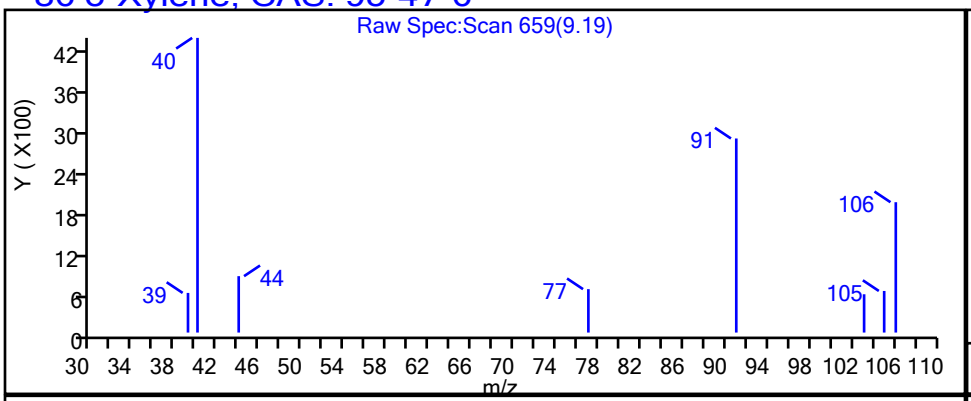


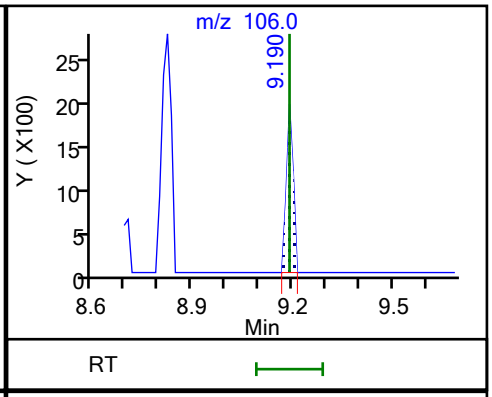
Eurofins TestAmerica, Canton

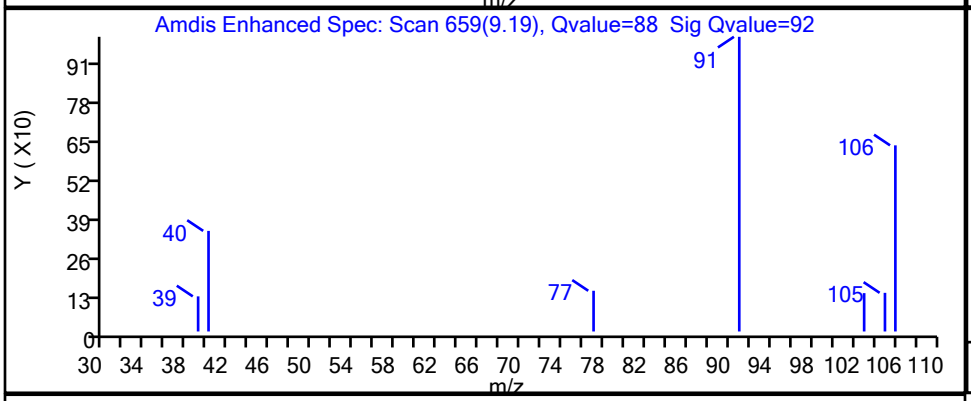
Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35692.D

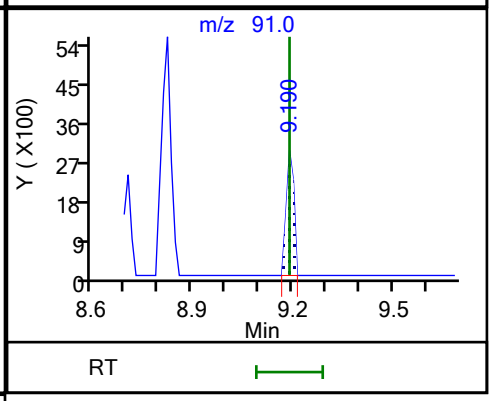
Injection Date:	16-Mar-2021 15:10:30	Instrument ID:	A3UX16
Lims ID:	240-145599-B-30	Lab Sample ID:	240-145599-30
Client ID:	MSA-SW46A-030821		
Operator ID:	001765	ALS Bottle#:	14 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

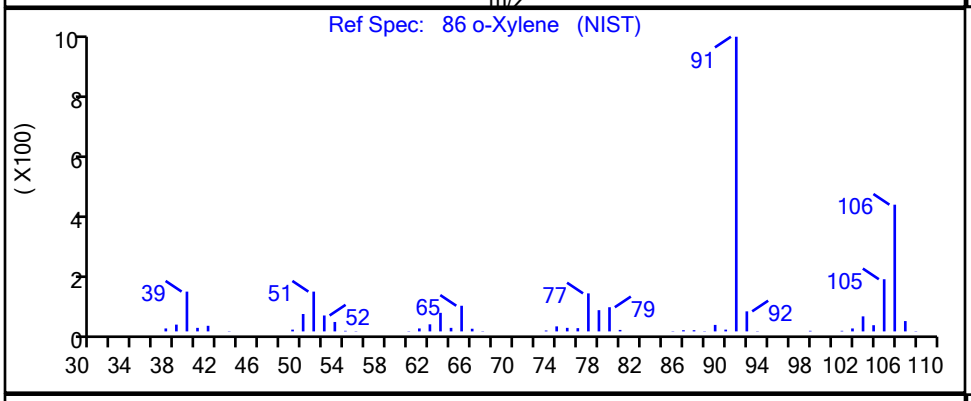
86 o-Xylene, CAS: 95-47-6

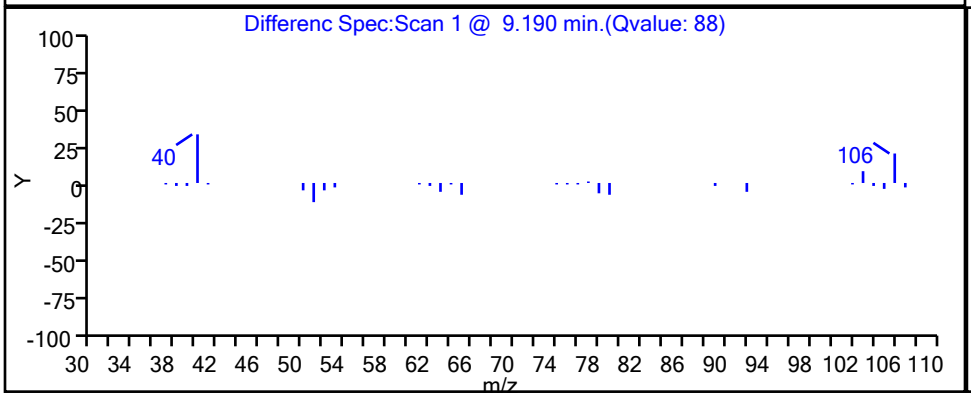


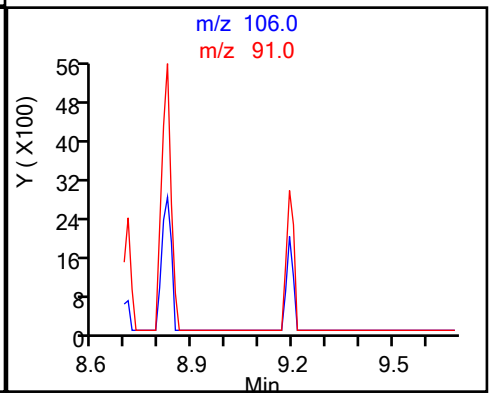








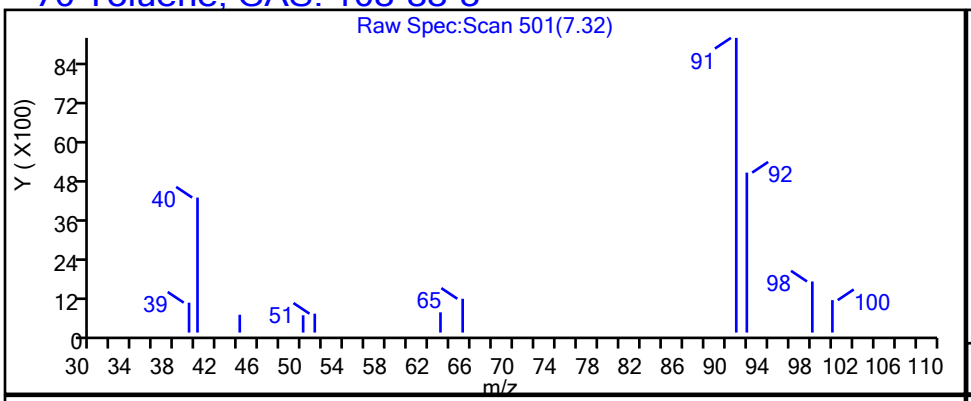


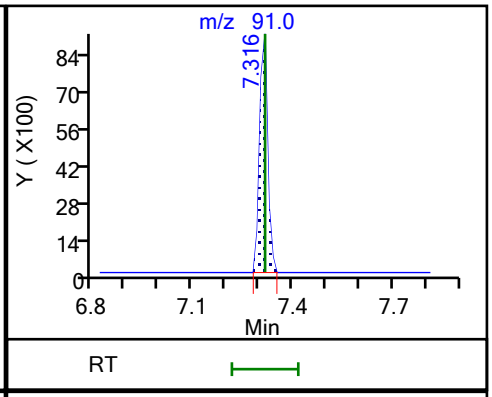


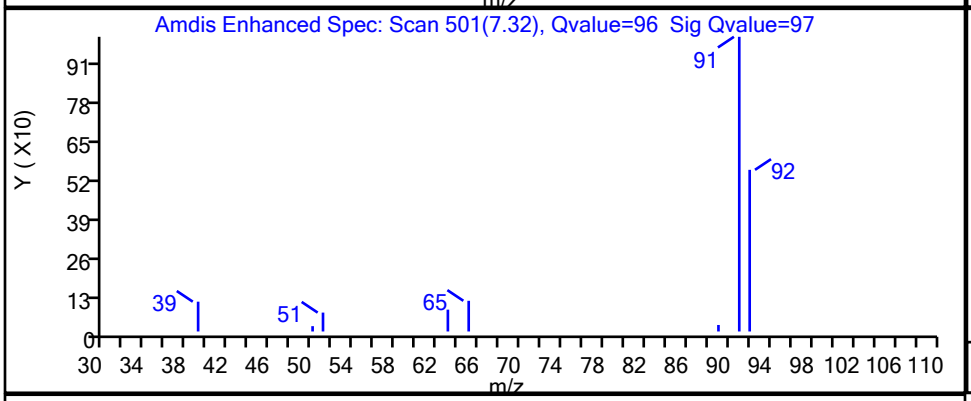
Eurofins TestAmerica, Canton

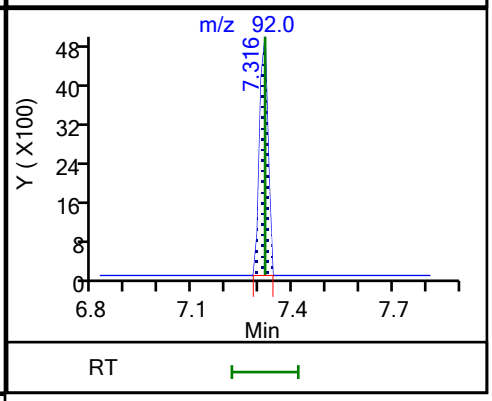
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35692.D		
Injection Date:	16-Mar-2021 15:10:30	Instrument ID:	A3UX16
Lims ID:	240-145599-B-30	Lab Sample ID:	240-145599-30
Client ID:	MSA-SW46A-030821		
Operator ID:	001765	ALS Bottle#:	14 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

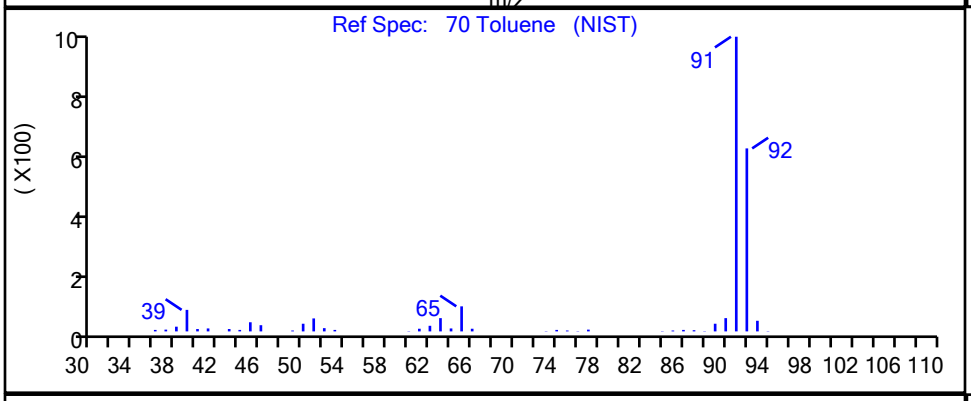
70 Toluene, CAS: 108-88-3

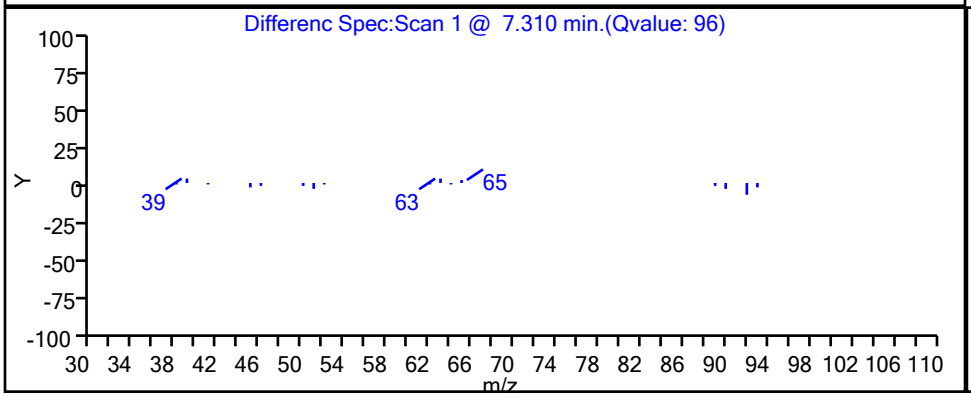


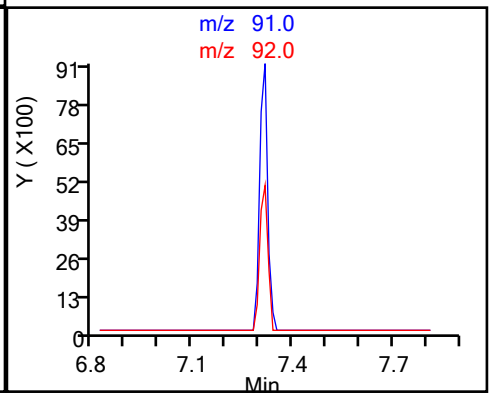










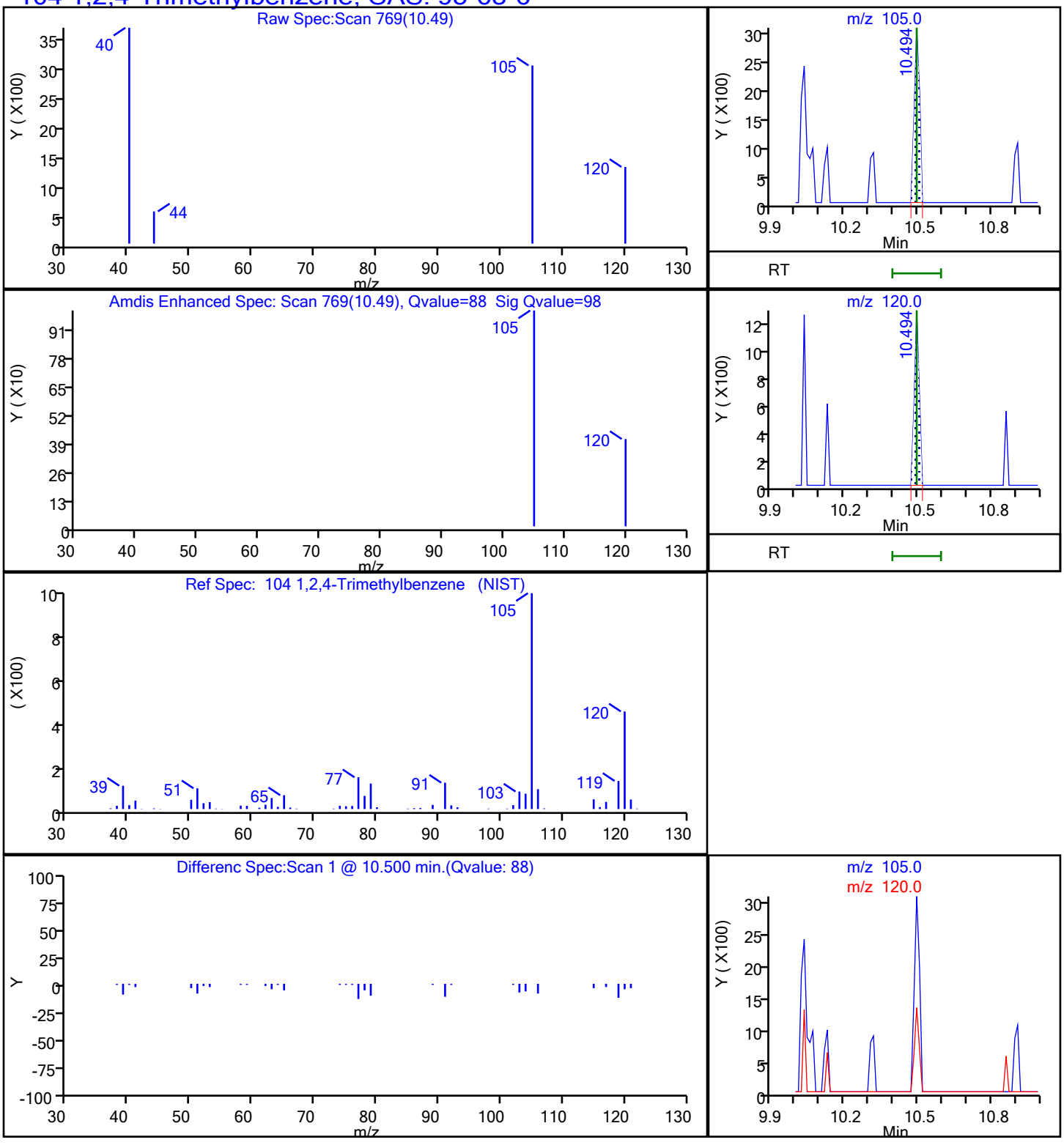


Report Date: 17-Mar-2021 08:09:16 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35692.D				
Injection Date:	16-Mar-2021 15:10:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-30	Lab Sample ID:	240-145599-30		
Client ID:	MSA-SW46A-030821				
Operator ID:	001765	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

104 1,2,4-Trimethylbenzene, CAS: 95-63-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UX994006.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 13:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.9		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	118		47-134
1868-53-7	Dibromofluoromethane (Surr)	93		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
2037-26-5	Toluene-d8 (Surr)	99		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW46A-030821 Lab Sample ID: 240-145599-30

Matrix: Water Lab File ID: UX994006.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:31

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 13:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994006.D
Lims ID: 240-145599-A-30
Client ID: MSA-SW46A-030821
Sample Type: Client
Inject. Date: 17-Mar-2021 13:08:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107352-016
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 18-Mar-2021 09:21:32 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: bosworthh Date: 18-Mar-2021 09:22:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.865	5.866	-0.001	99	1429659	20.0	
* 2 Chlorobenzene-d5	117	8.563	8.564	-0.001	85	1153788	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.812	-0.001	95	629755	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.274	5.274	0.000	94	306461	15.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.569	5.570	-0.001	100	381396	15.0	
$ 6 Toluene-d8 (Surr)	98	7.250	7.250	0.000	92	1229634	16.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.676	-0.001	88	511504	19.1	
9 Dichlorodifluoromethane	85		1.772				ND	
10 Chloromethane	50		1.985				ND	
11 Vinyl chloride	62	2.102	2.103	-0.001	97	68137	2.95	
13 Bromomethane	94		2.470				ND	
15 Chloroethane	64		2.564				ND	
17 Trichlorofluoromethane	101		2.825				ND	
24 1,1-Dichloroethene	61		3.298				ND	
23 Acetone	58		3.333				ND	
22 112TCTFE	101		3.345				ND	
26 Carbon disulfide	76		3.535				ND	7
30 Methylene Chloride	49		3.736				ND	
31 2-Methyl-2-propanol	59		3.830				ND	
33 Methyl tert-butyl ether	73		3.996				ND	
34 trans-1,2-Dichloroethene	61		3.996				ND	
36 1,1-Dichloroethane	63		4.363				ND	
37 Vinyl acetate	43		4.398				ND	
38 Isopropyl ether	87		4.433				ND	
40 Tert-butyl ethyl ether	59		4.740				ND	
43 cis-1,2-Dichloroethene	96	4.871	4.872	-0.001	78	42080	1.75	
41 2-Butanone (MEK)	72		4.872				ND	
42 2,2-Dichloropropane	77		4.884				ND	
47 Chlorobromomethane	49		5.073				ND	
49 Chloroform	83		5.132				ND	
50 1,1,1-Trichloroethane	97		5.321				ND	
52 1,1-Dichloropropene	75		5.452				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 Carbon tetrachloride	117		5.463				ND	
56 1,2-Dichloroethane	62		5.629				ND	
55 Benzene	78		5.641				ND	7
57 Tert-amyl methyl ether	73		5.722				ND	
60 Trichloroethene	130		6.185				ND	7
63 1,2-Dichloropropane	63		6.375				ND	
66 Dibromomethane	174		6.481				ND	
67 Dichlorobromomethane	83		6.599				ND	
69 2-Chloroethyl vinyl ether	63		6.848				ND	
71 cis-1,3-Dichloropropene	75		6.990				ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.108				ND	
73 Toluene	91	7.309	7.309	0.000	97	23088	0.2611	
74 trans-1,3-Dichloropropene	75		7.475				ND	
77 1,3-Dichloropropane	76		7.806				ND	
78 Tetrachloroethene	166		7.806				ND	
80 2-Hexanone	43		7.854				ND	
82 Chlorodibromomethane	129		8.019				ND	
83 Ethylene Dibromide	107		8.138				ND	
85 Chlorobenzene	112		8.599				ND	7
86 1,1,1,2-Tetrachloroethane	131		8.658				ND	
87 Ethylbenzene	106		8.682				ND	
88 m-Xylene & p-Xylene	106	8.800	8.800	0.000	97	7518	0.2048	
89 o-Xylene	106		9.179				ND	7
90 Styrene	104		9.179				ND	
91 Bromoform	173		9.368				ND	
92 Isopropylbenzene	105		9.522				ND	
94 1,1,2,2-Tetrachloroethane	83		9.794				ND	
95 Bromobenzene	156		9.842				ND	
97 1,2,3-Trichloropropane	110		9.842				ND	
98 N-Propylbenzene	120		9.924				ND	
100 2-Chlorotoluene	126		10.019				ND	
102 4-Chlorotoluene	126		10.126				ND	
104 tert-Butylbenzene	119		10.421				ND	
106 1,2,4-Trimethylbenzene	105	10.468	10.457	0.011	90	7200	0.0956	
107 sec-Butylbenzene	134		10.634				ND	
108 1,3-Dichlorobenzene	146		10.753				ND	
109 4-Isopropyltoluene	119		10.764				ND	
110 1,4-Dichlorobenzene	146		10.835				ND	
111 1,2,3-Trimethylbenzene	105		10.881				ND	
113 n-Butylbenzene	91		11.179				ND	
114 1,2-Dichlorobenzene	146		11.214				ND	
115 1,2-Dibromo-3-Chloropropane	157		11.971				ND	
117 1,2,4-Trichlorobenzene	180		12.823				ND	
118 Hexachlorobutadiene	225		13.001				ND	
119 Naphthalene	128		13.084				ND	7
120 1,2,3-Trichlorobenzene	180		13.356				ND	
S 131 Xylenes, Total	106				0		0.2048	
T 157 Chlorodifluoromethane TIC	51		2.413				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm100ss_stk_00033	Amount Added:	0.81	Units: uL	Run Reagent

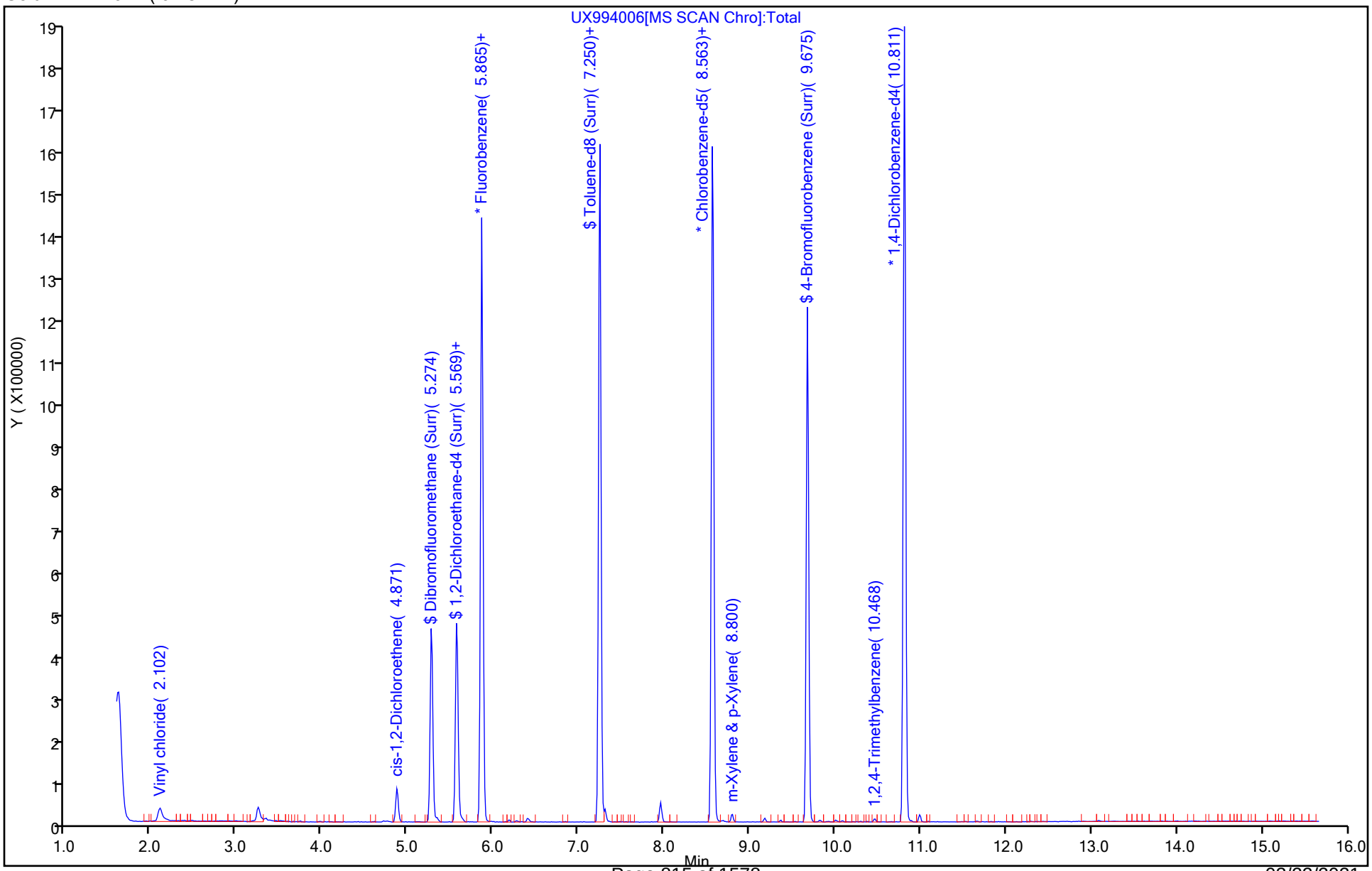
Report Date: 18-Mar-2021 09:22:51 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994006.D

Injection Date:	17-Mar-2021 13:08:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-145599-A-30	Lab Sample ID:	240-145599-30	Worklist Smp#:	16
Client ID:	MSA-SW46A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994006.D				
Lims ID:	240-145599-A-30				
Client ID:	MSA-SW46A-030821				
Sample Type:	Client				
Inject. Date:	17-Mar-2021 13:08:30	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107352-016				
Operator ID:	001765	Instrument ID:	A3UX9		
Method:	\\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	18-Mar-2021 09:21:32	Calib Date:	07-Jan-2021 18:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1644				

First Level Reviewer: bosworthh Date: 18-Mar-2021 09:22:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	16.2	15.0	92.54
$ 5 1,2-Dichloroethane-d4 (Surr)	16.2	15.0	92.26
$ 6 Toluene-d8 (Surr)	16.2	16.0	98.78
$ 7 4-Bromofluorobenzene (Surr)	16.2	19.1	117.62

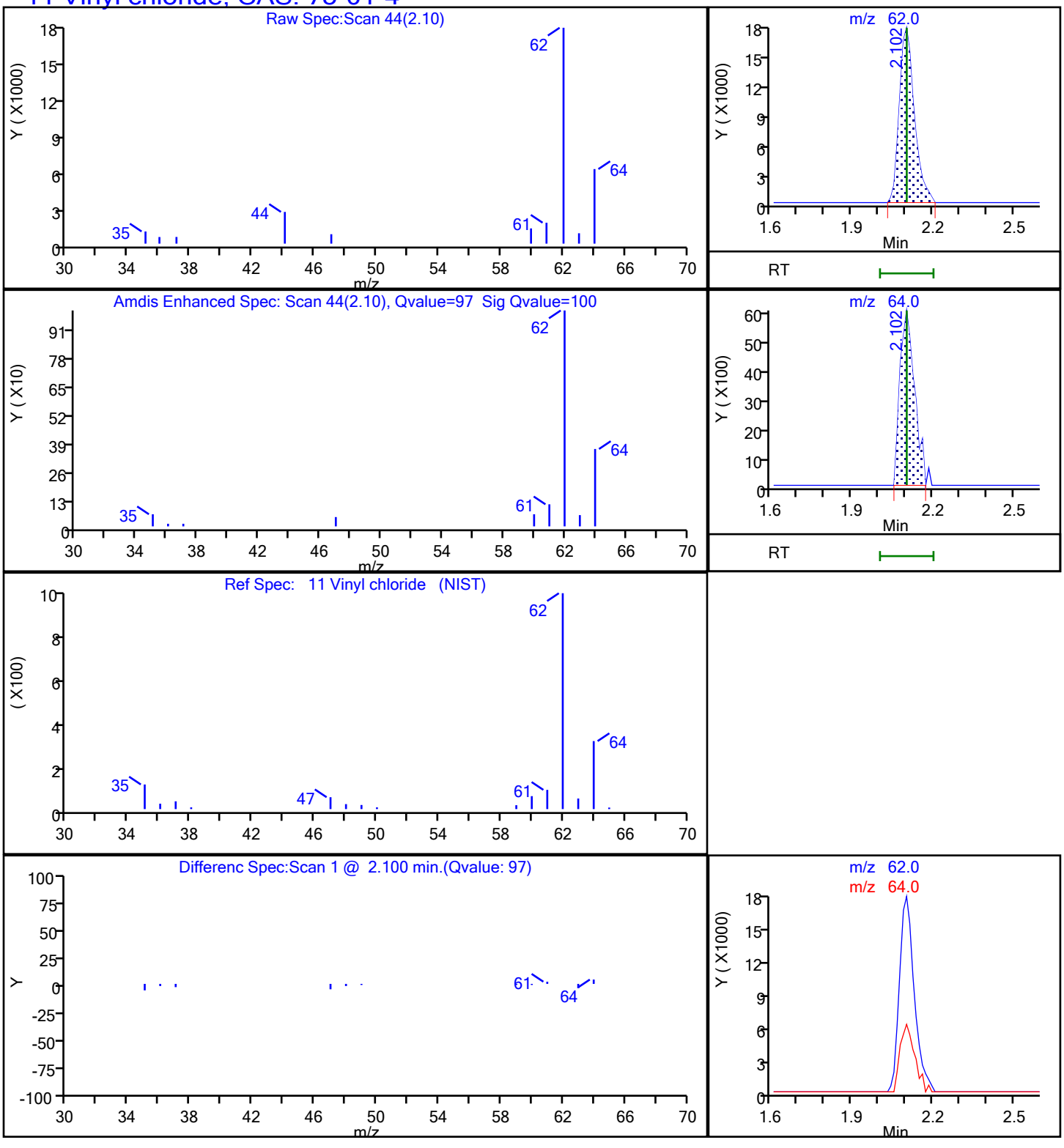
Report Date: 18-Mar-2021 09:22:51 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994006.D

Injection Date:	17-Mar-2021 13:08:30	Instrument ID:	A3UX9		
Lims ID:	240-145599-A-30	Lab Sample ID:	240-145599-30		
Client ID:	MSA-SW46A-030821				
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW47A-030821 Lab Sample ID: 240-145599-31

Matrix: Water Lab File ID: UXM35693.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	0.33	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW47A-030821 Lab Sample ID: 240-145599-31

Matrix: Water Lab File ID: UXM35693.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.17	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.83	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW47A-030821 Lab Sample ID: 240-145599-31

Matrix: Water Lab File ID: UXM35693.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		47-134
1868-53-7	Dibromofluoromethane (Surr)	106		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
2037-26-5	Toluene-d8 (Surr)	91		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW47A-030821 Lab Sample ID: 240-145599-31

Matrix: Water Lab File ID: UXM35693.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW47A-030821 Lab Sample ID: 240-145599-31

Matrix: Water Lab File ID: UXM35693.D

Analysis Method: 8260C Date Collected: 03/08/2021 10:06

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35693.D
Lims ID: 240-145599-B-31
Client ID: MSA-SW47A-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 15:35:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-015
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 20:02:51 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 08:08:01

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	972661	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	85	850134	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	433079	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	93	281133	26.5	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.585	0.011	98	296084	25.8	
$	6 Toluene-d8 (Surr)	98	7.257	7.245	0.012	93	1031102	22.6	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.712	0.011	96	425669	25.8	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	96	13582	0.8254	
	13 Bromomethane	94	2.383	2.383	0.000	81	2018	0.1910	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.260				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.308	0.000	96	1321	1.52	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.849				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	66	4212	0.3346	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	51 Carbon tetrachloride	117		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	94	9174	0.1721	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.051				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.620				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.703				ND	
85 m-Xylene & p-Xylene	106		8.810				ND	
86 o-Xylene	106		9.190				ND	7
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.545				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.043				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.791				ND	
107 4-Isopropyltoluene	119		10.802				ND	
108 1,4-Dichlorobenzene	146		10.885				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.217				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

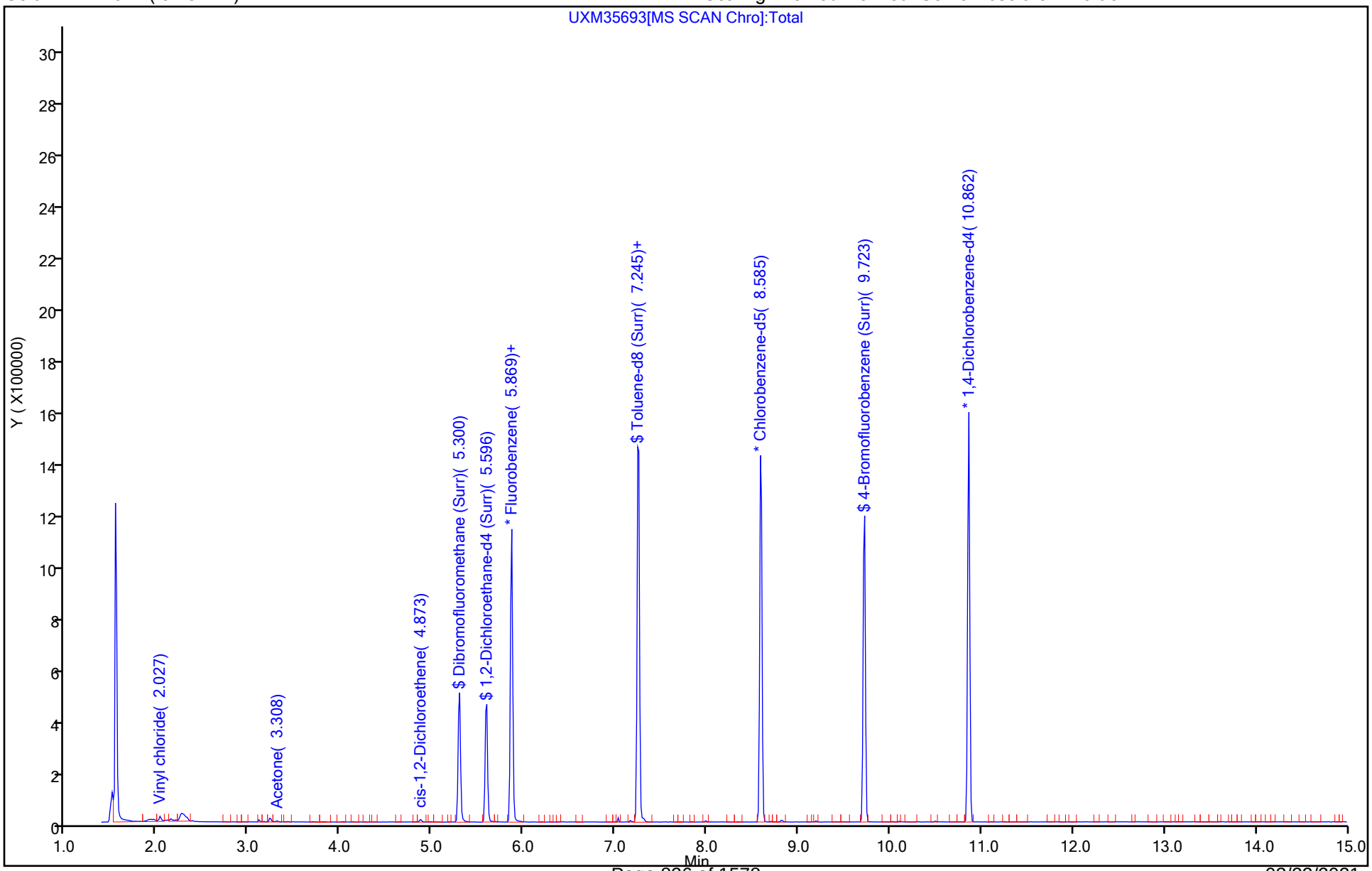
Report Date: 17-Mar-2021 08:09:43 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35693.D

Injection Date:	16-Mar-2021 15:35:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-31	Lab Sample ID:	240-145599-31	Worklist Smp#:	15
Client ID:	MSA-SW47A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35693.D				
Lims ID:	240-145599-B-31				
Client ID:	MSA-SW47A-030821				
Sample Type:	Client				
Inject. Date:	16-Mar-2021 15:35:30	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107315-015				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	16-Mar-2021 20:02:51	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1658				

First Level Reviewer: bosworthh Date: 17-Mar-2021 08:08:01

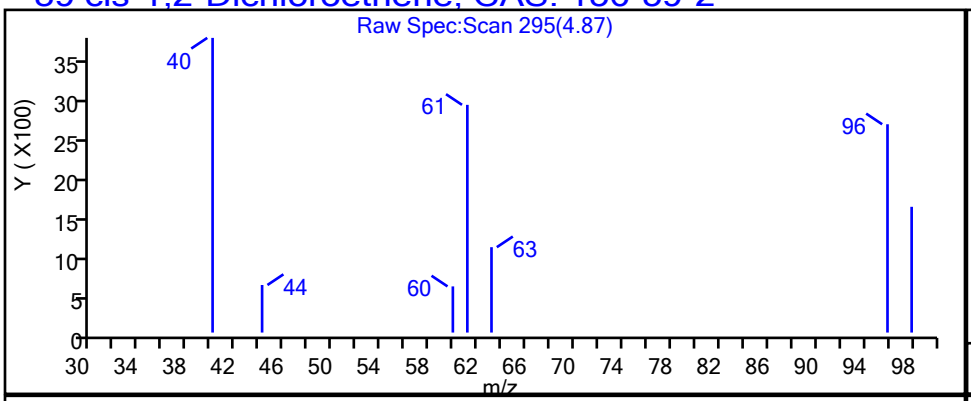
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.5	106.41
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.8	103.53
$ 6 Toluene-d8 (Surr)	24.9	22.6	90.52
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.8	103.53

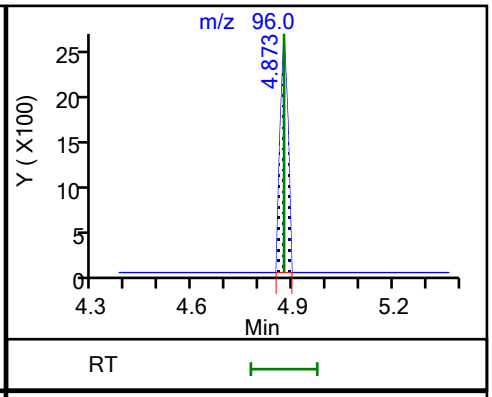
Report Date: 17-Mar-2021 08:09:43 Chrom Revision: 2.3 05-Feb-2021 00:13:28

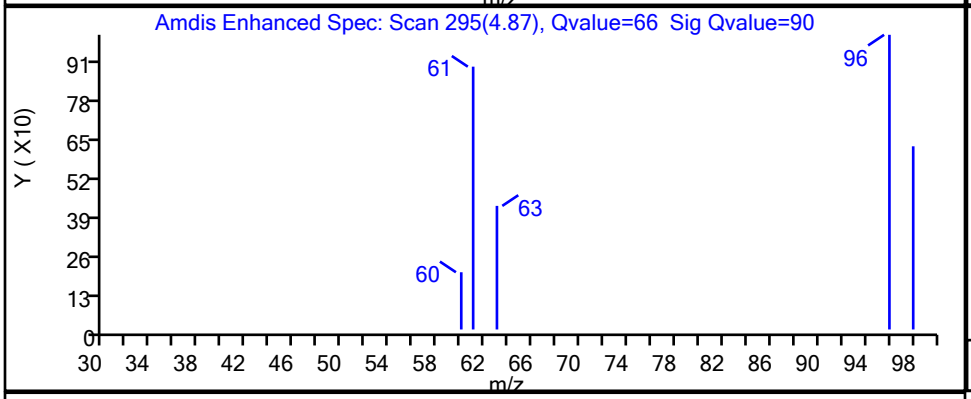
Eurofins TestAmerica, Canton

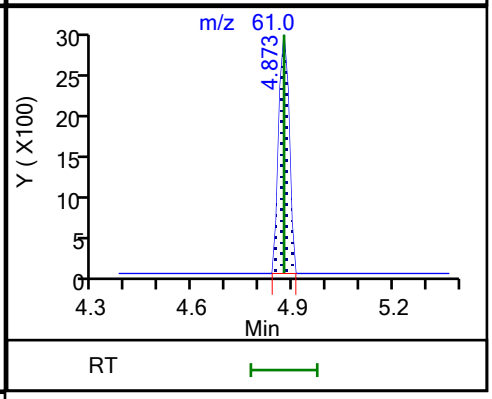
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35693.D				
Injection Date:	16-Mar-2021 15:35:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-31	Lab Sample ID:	240-145599-31		
Client ID:	MSA-SW47A-030821				
Operator ID:	001765	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

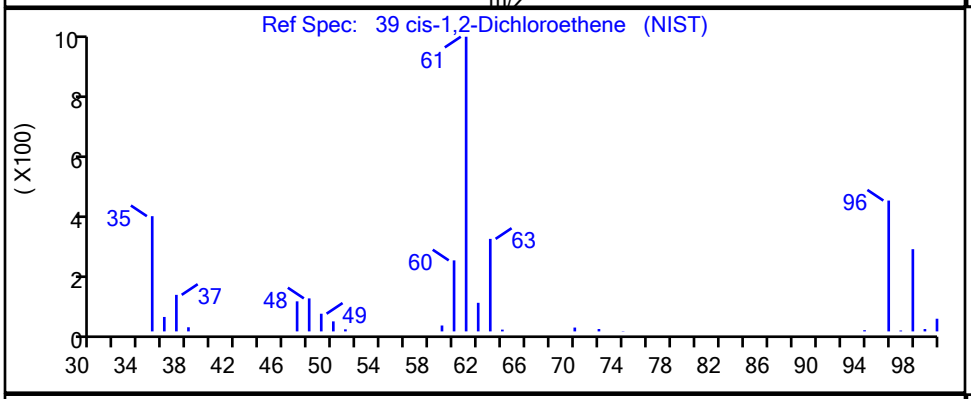
39 cis-1,2-Dichloroethene, CAS: 156-59-2

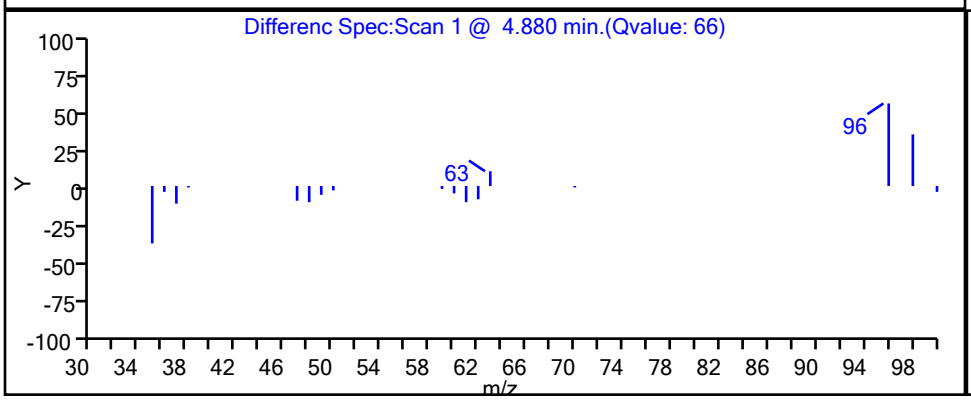


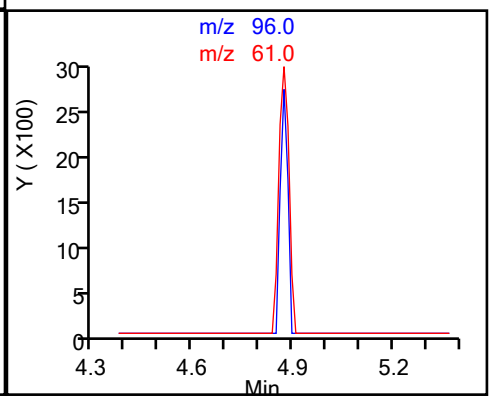








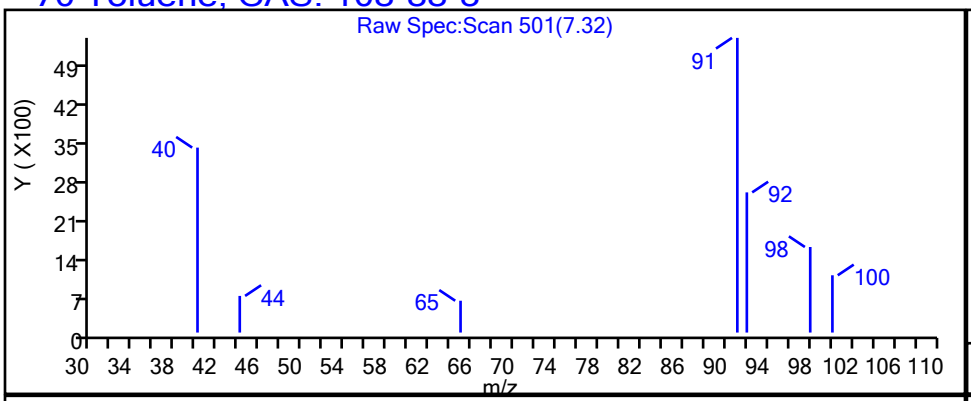


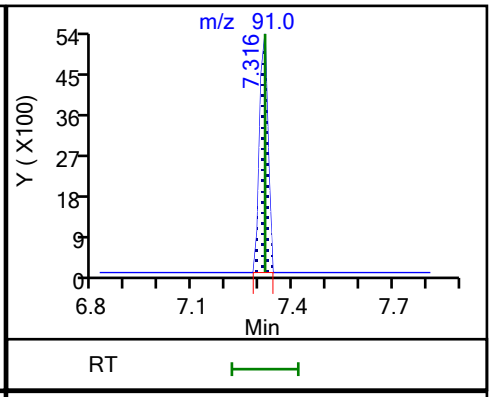


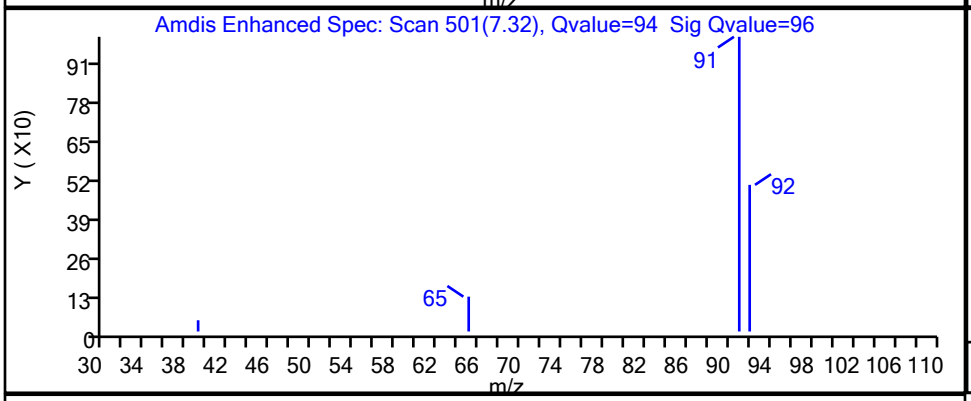
Eurofins TestAmerica, Canton

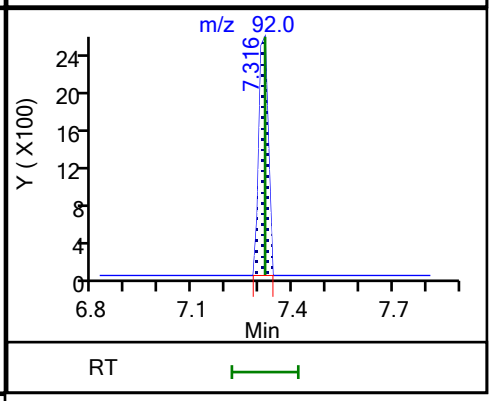
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35693.D				
Injection Date:	16-Mar-2021 15:35:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-31	Lab Sample ID:	240-145599-31		
Client ID:	MSA-SW47A-030821				
Operator ID:	001765	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

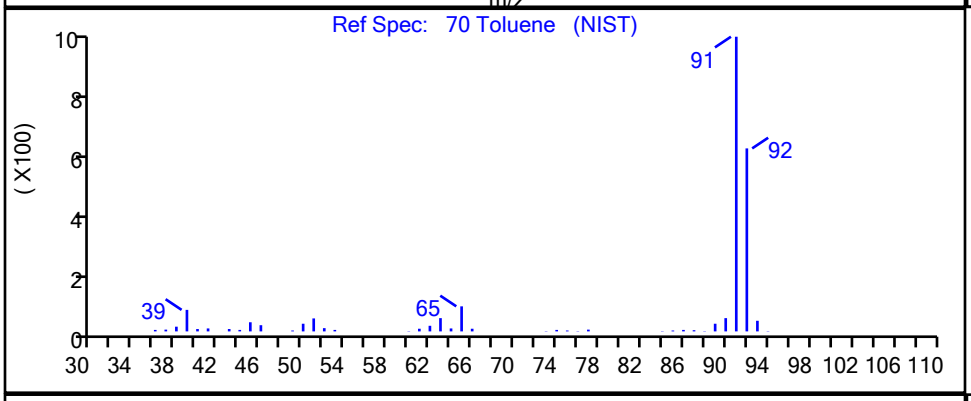
70 Toluene, CAS: 108-88-3

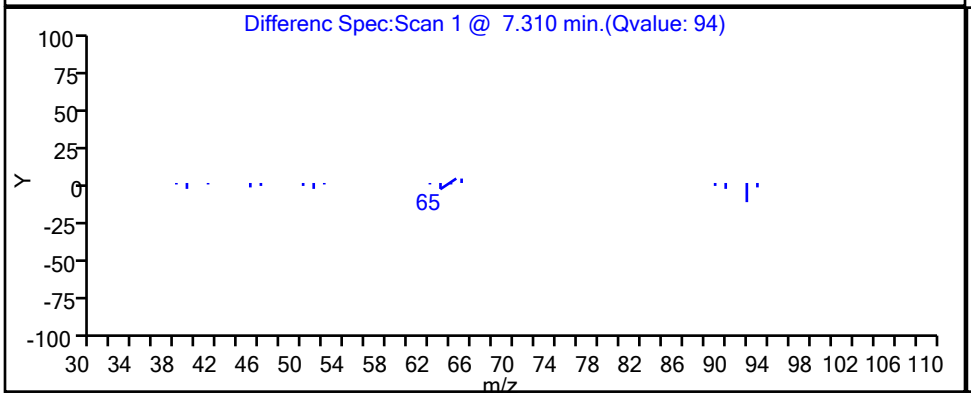


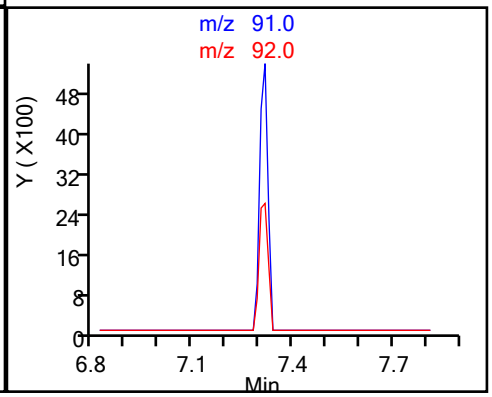












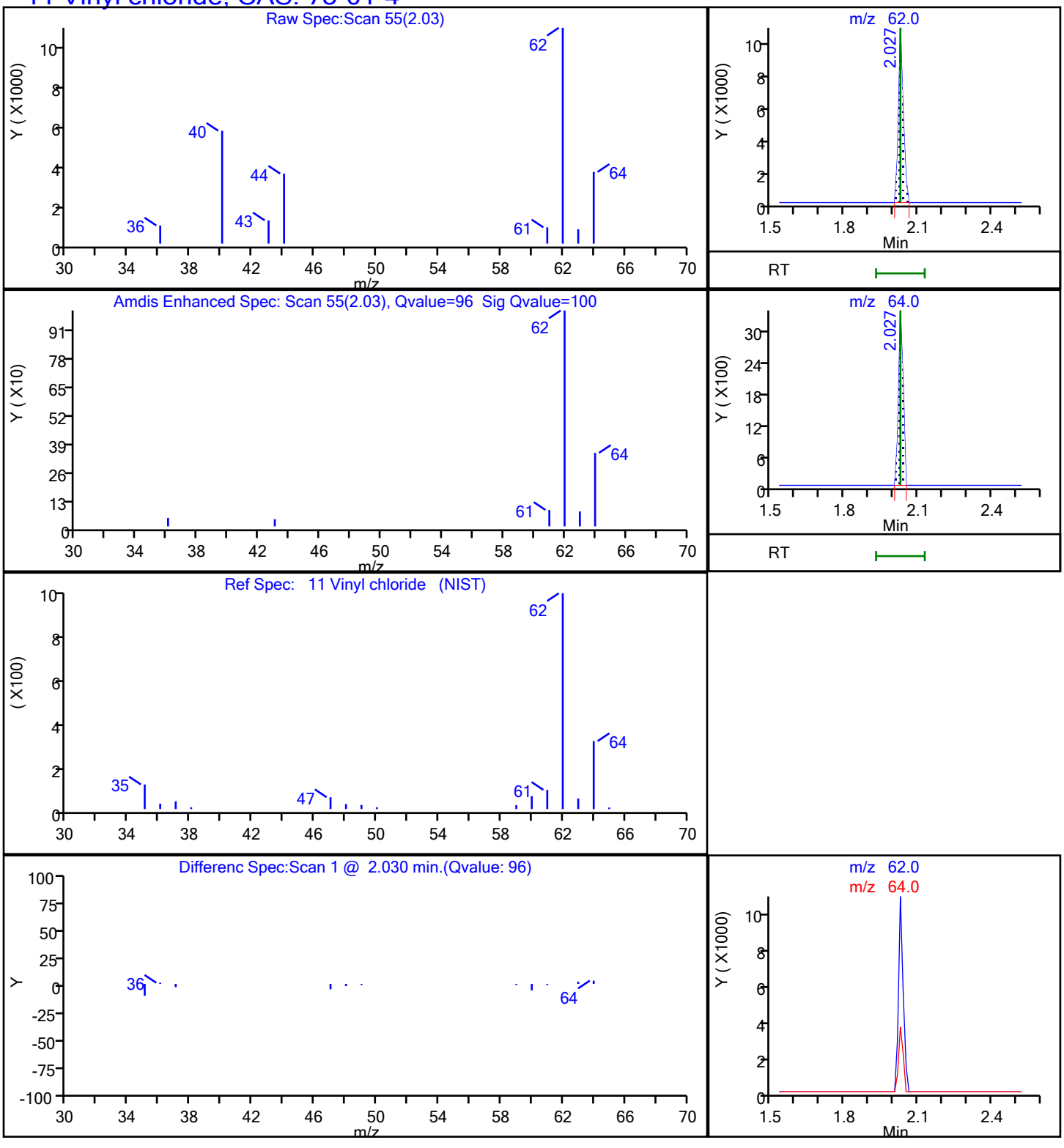
Report Date: 17-Mar-2021 08:09:43 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35693.D

Injection Date:	16-Mar-2021 15:35:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-31	Lab Sample ID:	240-145599-31		
Client ID:	MSA-SW47A-030821				
Operator ID:	001765	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW48A-030821 Lab Sample ID: 240-145599-32

Matrix: Water Lab File ID: UXM35694.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW48A-030821 Lab Sample ID: 240-145599-32

Matrix: Water Lab File ID: UXM35694.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	0.30	J	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	0.12	J	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.34	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	0.12	J	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.21	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW48A-030821 Lab Sample ID: 240-145599-32

Matrix: Water Lab File ID: UXM35694.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	0.42	J	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
1868-53-7	Dibromofluoromethane (Surr)	100		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
2037-26-5	Toluene-d8 (Surr)	91		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW48A-030821 Lab Sample ID: 240-145599-32

Matrix: Water Lab File ID: UXM35694.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW48A-030821 Lab Sample ID: 240-145599-32

Matrix: Water Lab File ID: UXM35694.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 15:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35694.D
Lims ID: 240-145599-B-32
Client ID: MSA-SW48A-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 15:59:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-016
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 20:02:51 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 08:10:48

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	1061253	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	87	869364	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	456798	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	93	288473	24.9	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.585	0.011	98	325589	26.0	
$	6 Toluene-d8 (Surr)	98	7.257	7.245	0.012	93	1055500	22.6	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.712	0.011	97	444749	26.4	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	
	11 Vinyl chloride	62	2.027	2.027	0.000	95	3787	0.2109	
	13 Bromomethane	94	2.383	2.383	0.000	74	1712	0.1485	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.260				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.308	0.000	100	2680	2.83	
	24 Carbon disulfide	76		3.474				ND	7
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.849				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	68	1735	0.1263	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	51 Carbon tetrachloride	117		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.442				ND	
54 Benzene	78		5.620				ND	
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130		6.178				ND	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	97	18351	0.3366	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.051				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.620				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.703				ND	
85 m-Xylene & p-Xylene	106	8.822	8.810	0.012	97	7522	0.3014	
86 o-Xylene	106	9.190	9.190	0.000	91	2781	0.1166	
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.545				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.043				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	92	5522	0.1215	
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.791				ND	
107 4-Isopropyltoluene	119		10.802				ND	
108 1,4-Dichlorobenzene	146		10.885				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.217				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106				0		0.4180	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

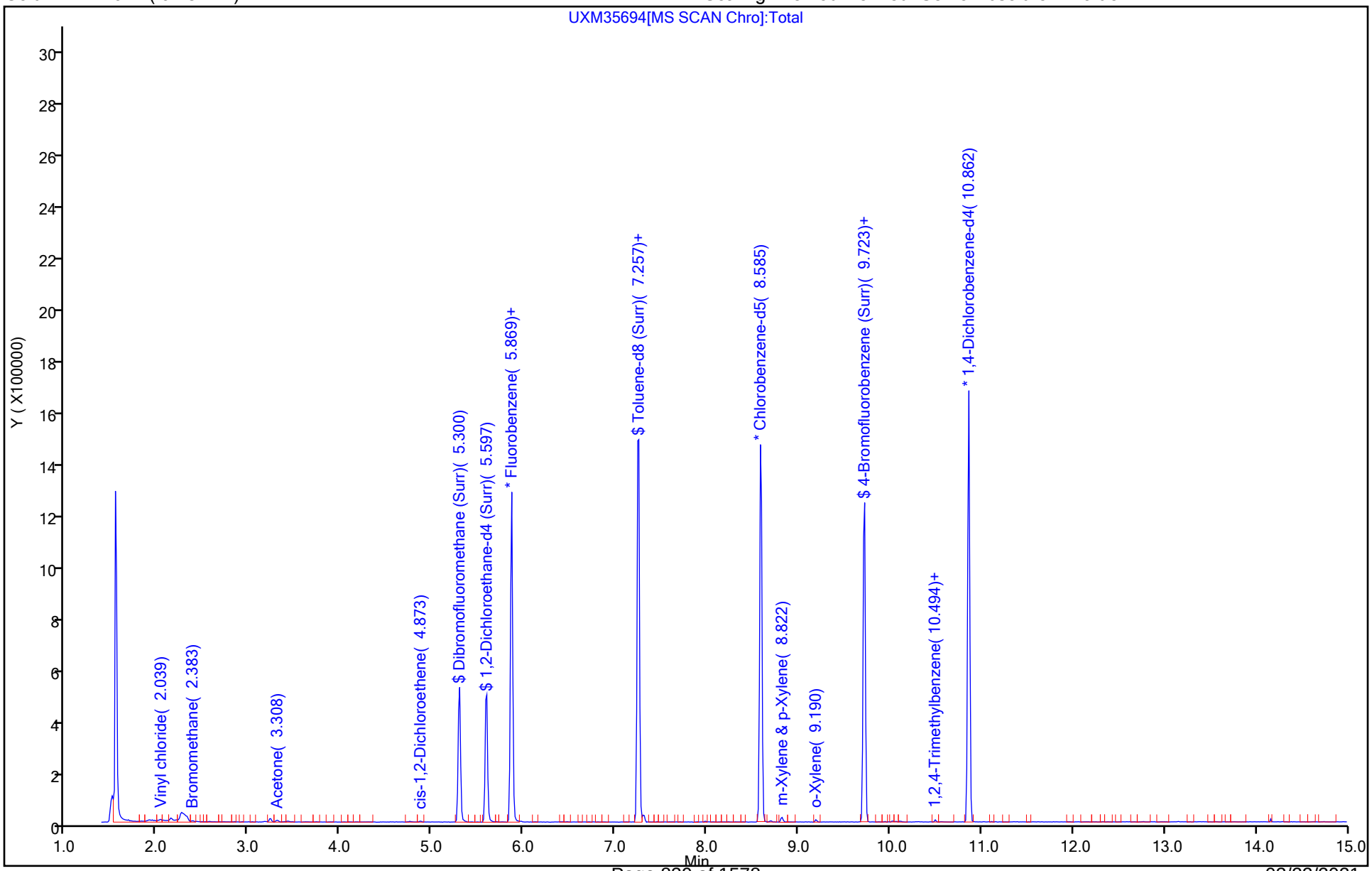
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

Report Date: 17-Mar-2021 08:10:49 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35694.D				
Injection Date:	16-Mar-2021 15:59:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-B-32	Lab Sample ID:	240-145599-32	Worklist Smp#:	16
Client ID:	MSA-SW48A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35694.D				
Lims ID:	240-145599-B-32				
Client ID:	MSA-SW48A-030821				
Sample Type:	Client				
Inject. Date:	16-Mar-2021 15:59:30	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107315-016				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	16-Mar-2021 20:02:51	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1658				

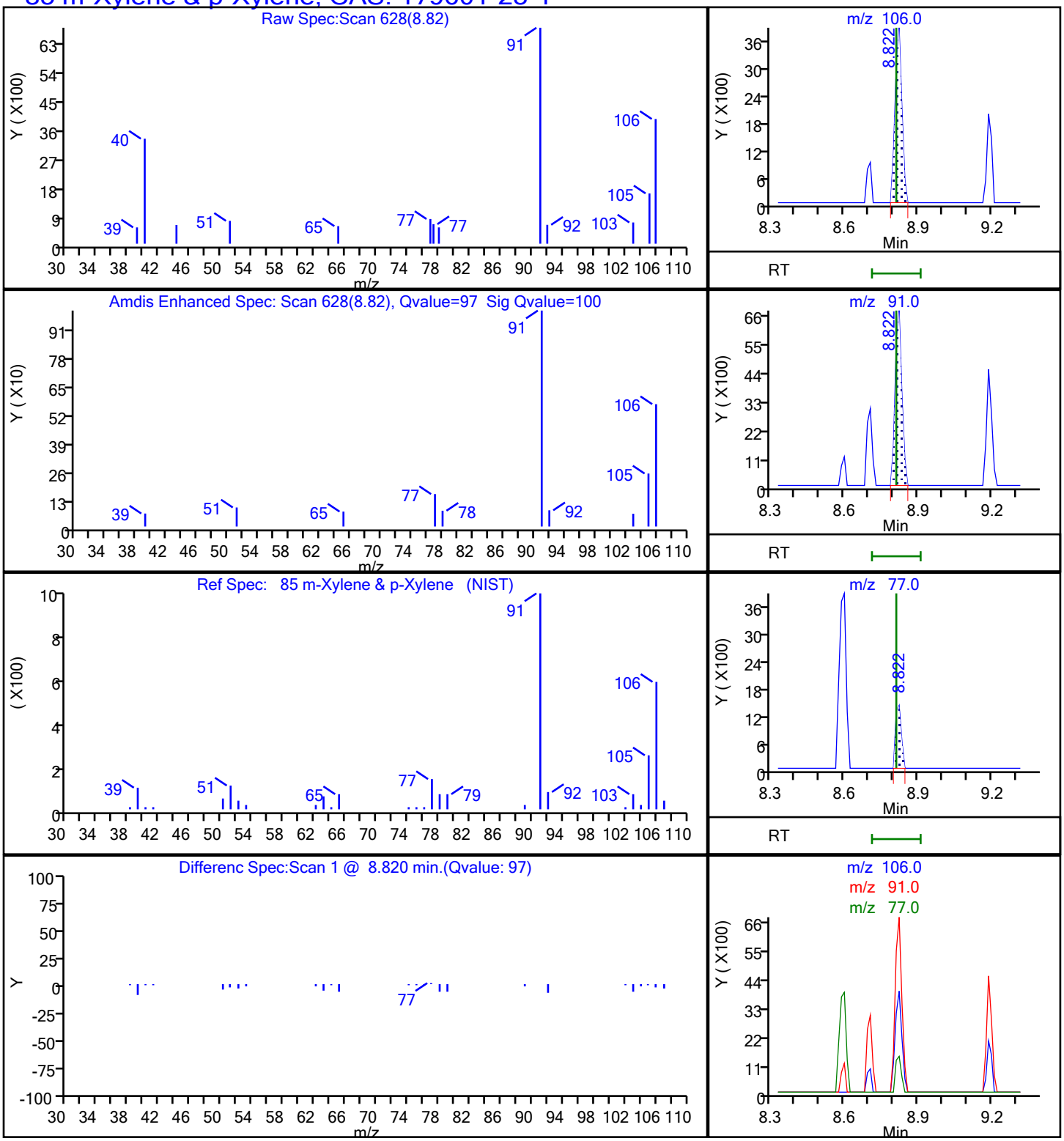
First Level Reviewer: bosworthh Date: 17-Mar-2021 08:10:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	24.9	100.07
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	26.0	104.34
$ 6 Toluene-d8 (Surr)	24.9	22.6	90.61
$ 7 4-Bromofluorobenzene (Surr)	24.9	26.4	105.78

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35694.D				
Injection Date:	16-Mar-2021 15:59:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-32	Lab Sample ID:	240-145599-32		
Client ID:	MSA-SW48A-030821				
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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



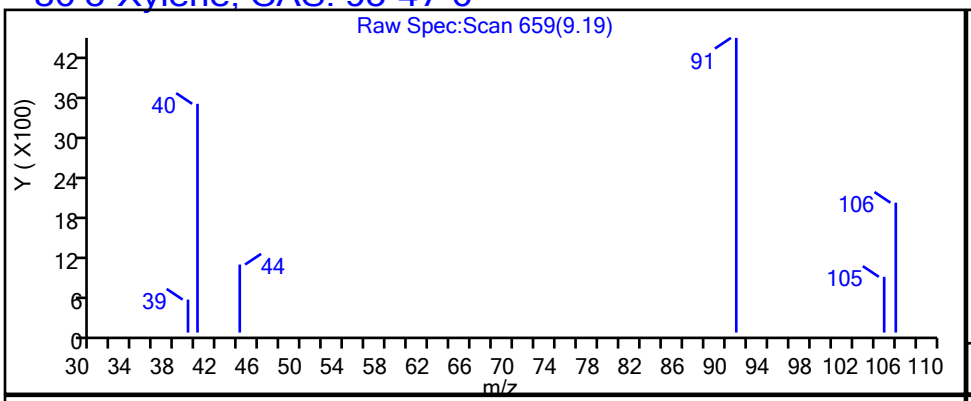
Report Date: 17-Mar-2021 08:10:49 Chrom Revision: 2.3 05-Feb-2021 00:13:28

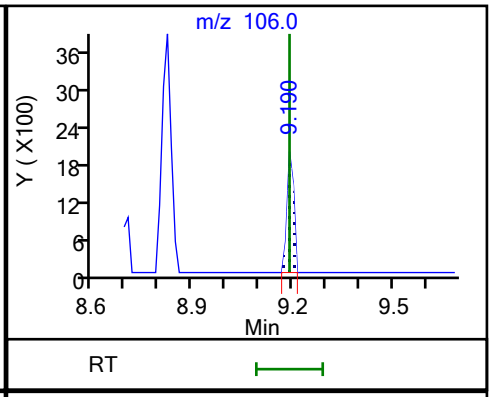
Eurofins TestAmerica, Canton

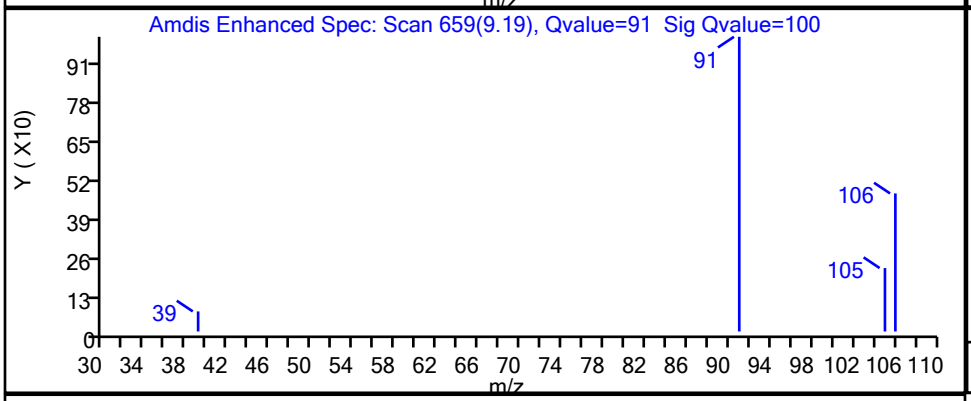
Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35694.D

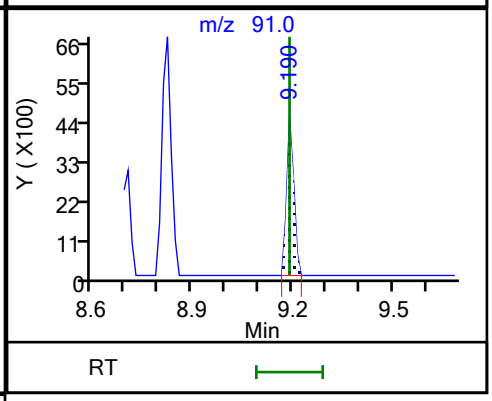
Injection Date:	16-Mar-2021 15:59:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-32	Lab Sample ID:	240-145599-32		
Client ID:	MSA-SW48A-030821				
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

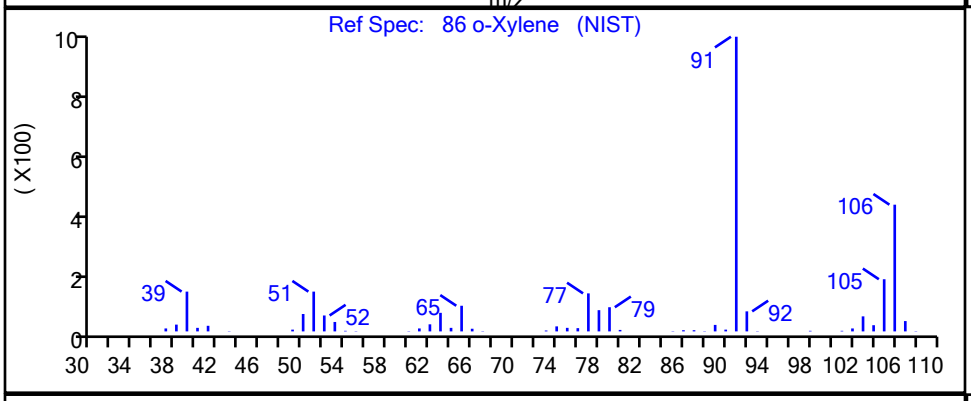
86 o-Xylene, CAS: 95-47-6

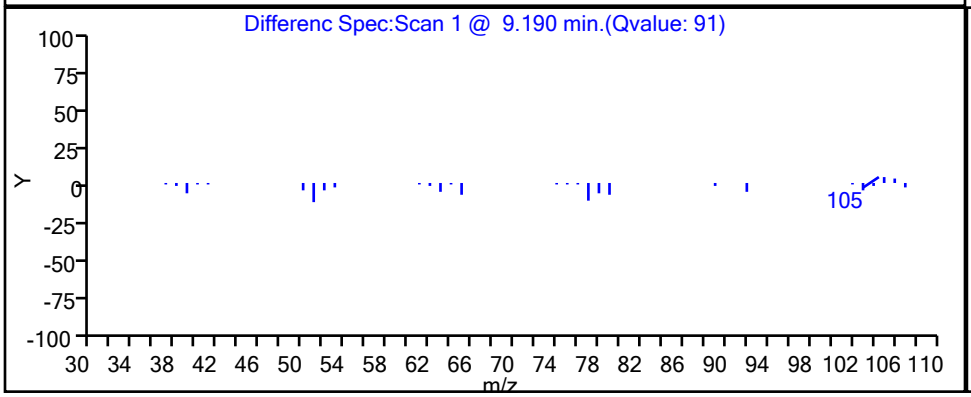


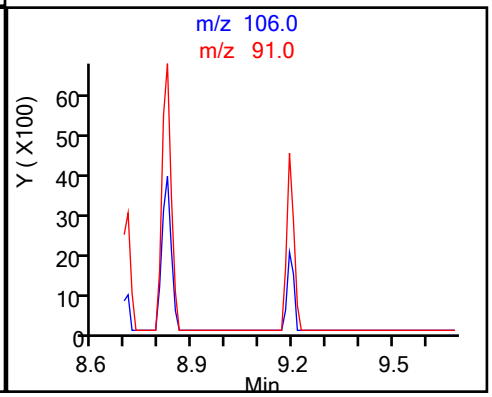












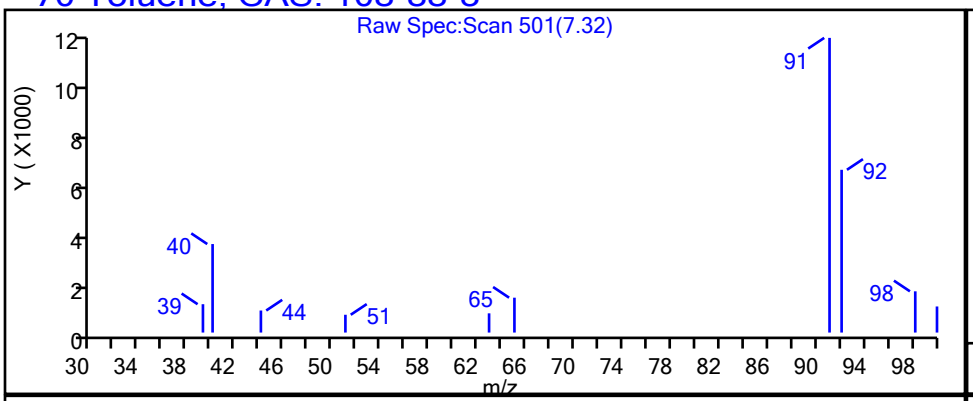
Report Date: 17-Mar-2021 08:10:49 Chrom Revision: 2.3 05-Feb-2021 00:13:28

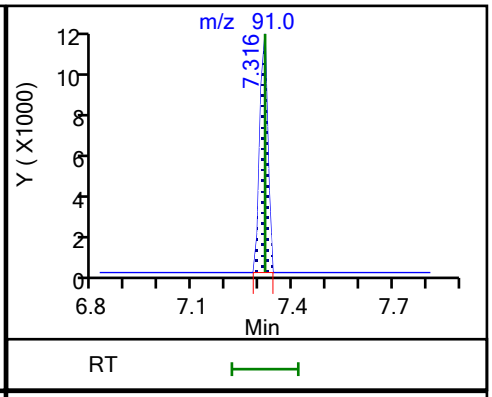
Eurofins TestAmerica, Canton

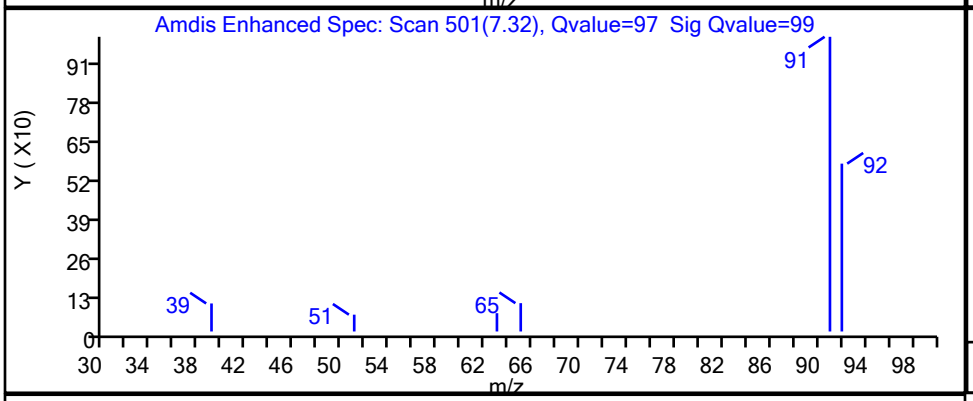
Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35694.D

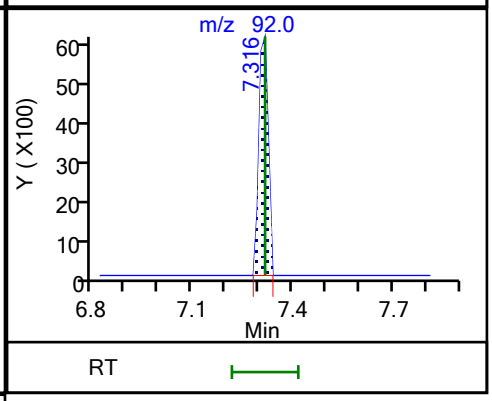
Injection Date:	16-Mar-2021 15:59:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-32	Lab Sample ID:	240-145599-32		
Client ID:	MSA-SW48A-030821				
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

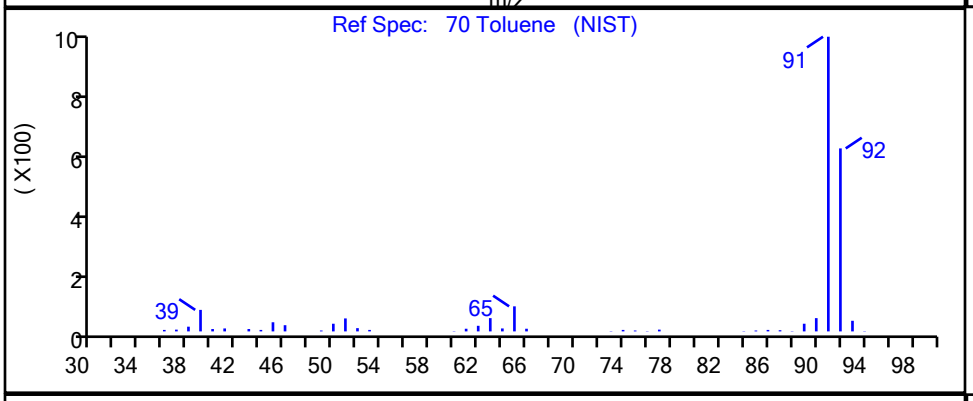
70 Toluene, CAS: 108-88-3

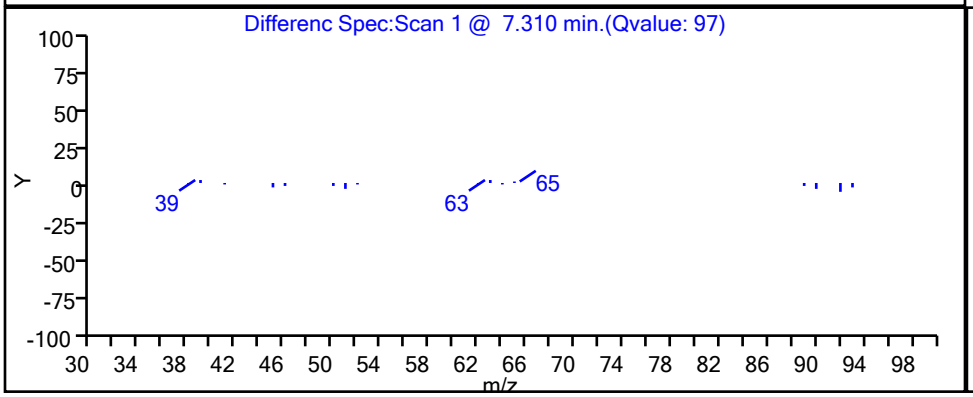


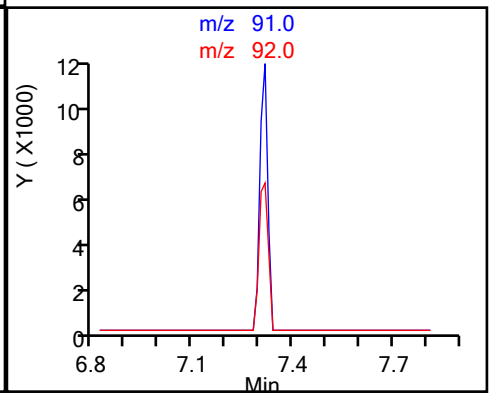










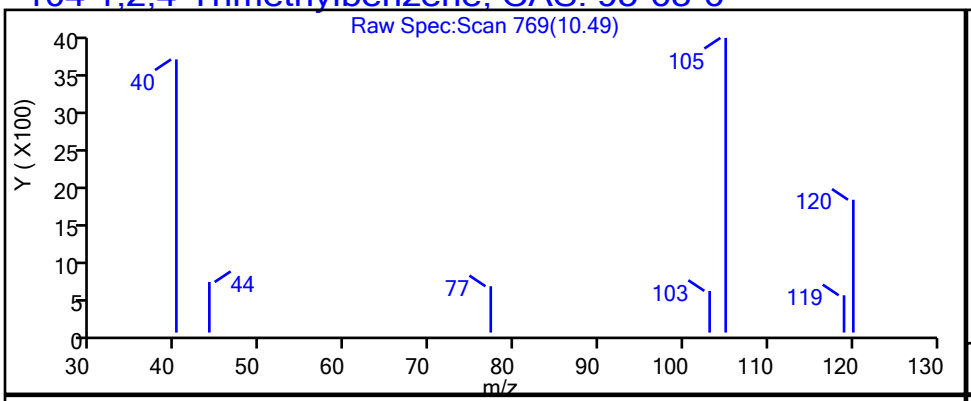


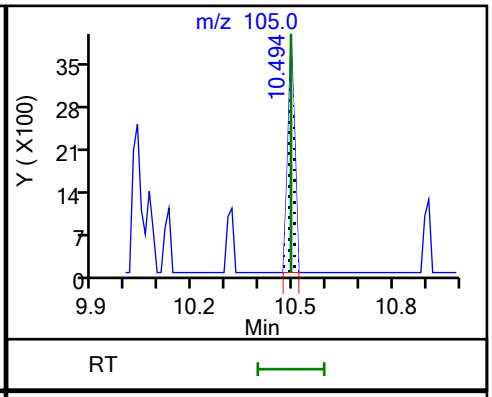
Eurofins TestAmerica, Canton

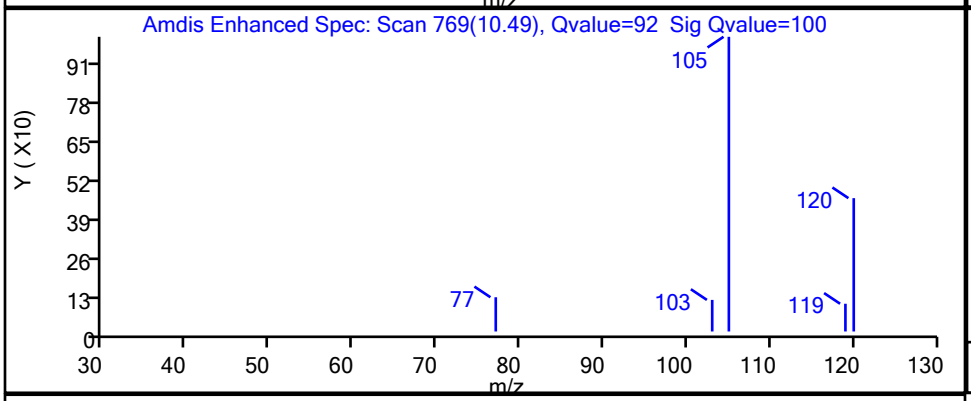
Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35694.D

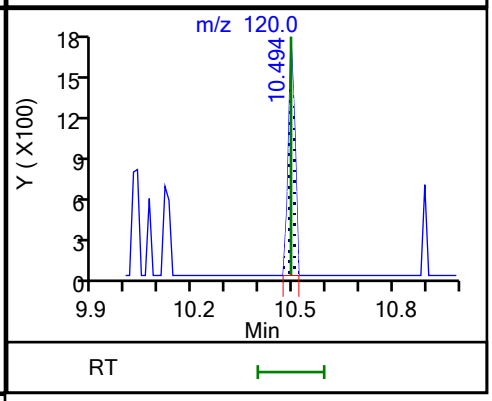
Injection Date:	16-Mar-2021 15:59:30	Instrument ID:	A3UX16
Lims ID:	240-145599-B-32	Lab Sample ID:	240-145599-32
Client ID:	MSA-SW48A-030821		
Operator ID:	001765	ALS Bottle#:	16 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

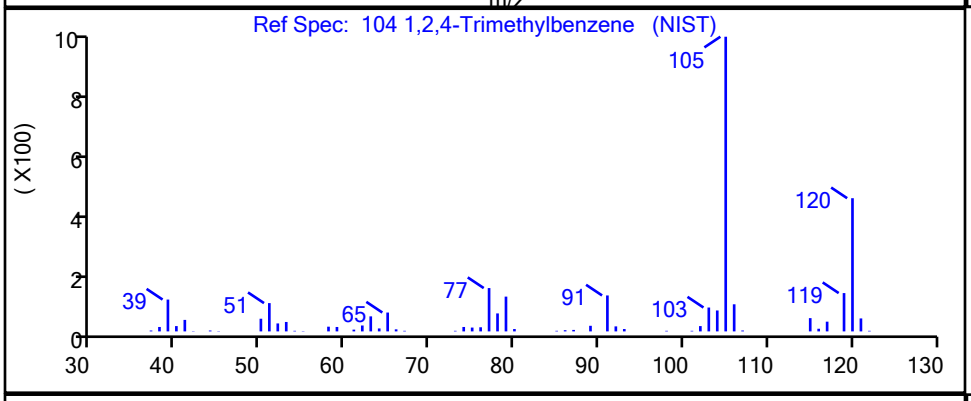
104 1,2,4-Trimethylbenzene, CAS: 95-63-6

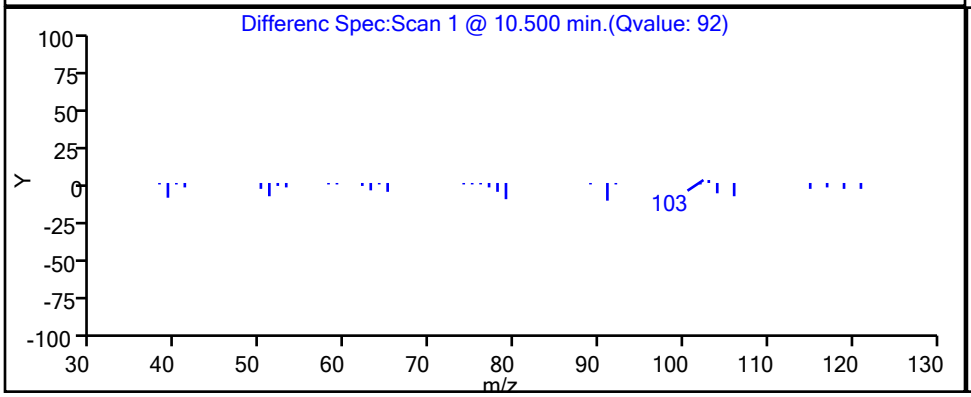


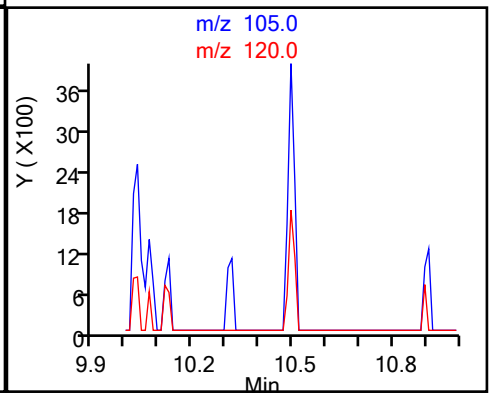












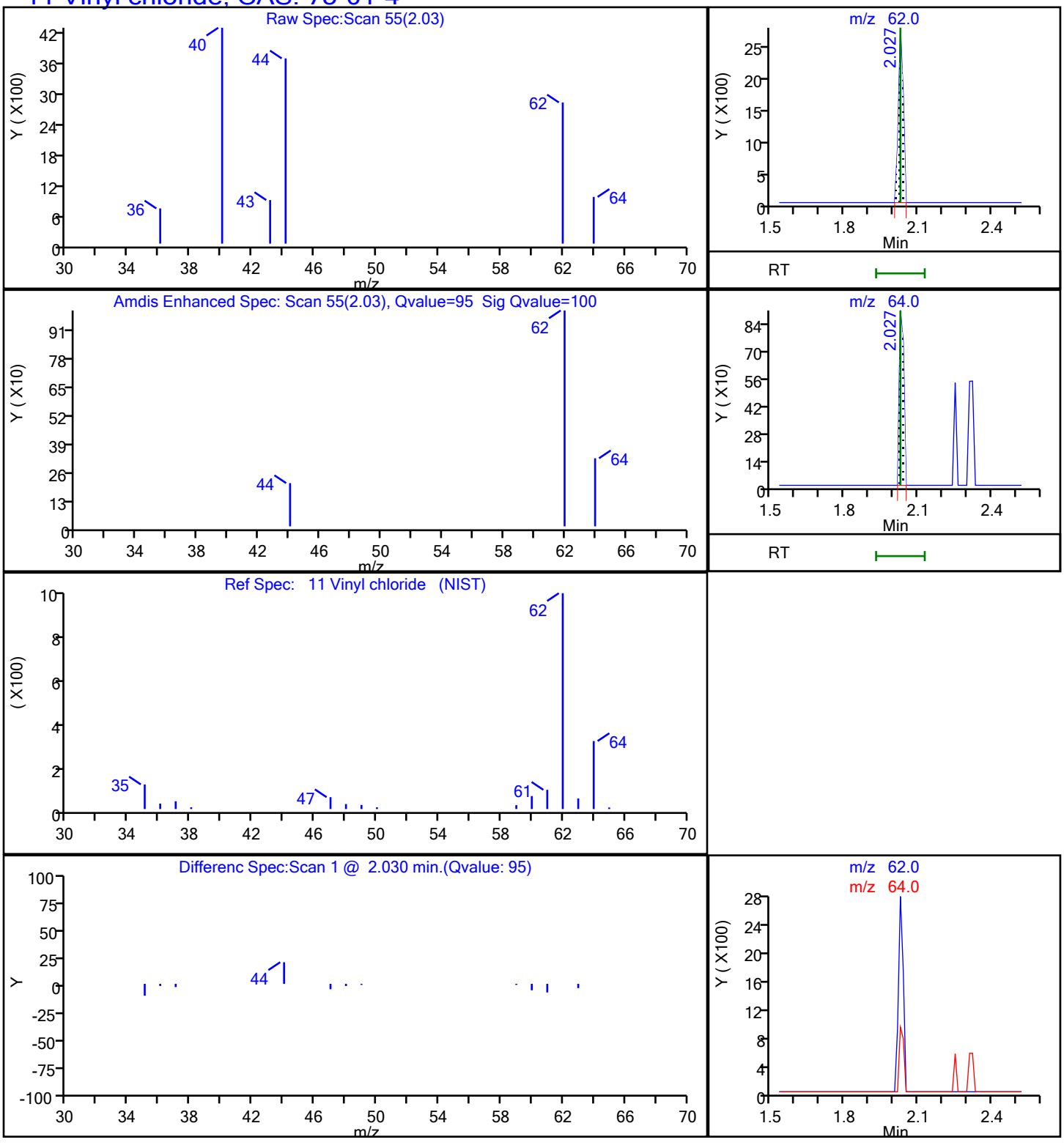
Report Date: 17-Mar-2021 08:10:49 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35694.D

Injection Date:	16-Mar-2021 15:59:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-B-32	Lab Sample ID:	240-145599-32		
Client ID:	MSA-SW48A-030821				
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW49A-030821 Lab Sample ID: 240-145599-33

Matrix: Water Lab File ID: UXM35695.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:28

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	2.2		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW49A-030821 Lab Sample ID: 240-145599-33

Matrix: Water Lab File ID: UXM35695.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:28

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	0.25	J	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	0.71	J	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.83	J	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW49A-030821 Lab Sample ID: 240-145599-33

Matrix: Water Lab File ID: UXM35695.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:28

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	106		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-130
2037-26-5	Toluene-d8 (Surr)	92		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW49A-030821 Lab Sample ID: 240-145599-33

Matrix: Water Lab File ID: UXM35695.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:28

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 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
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TARGETED TENATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: MSA-SW49A-030821 Lab Sample ID: 240-145599-33

Matrix: Water Lab File ID: UXM35695.D

Analysis Method: 8260C Date Collected: 03/08/2021 09:28

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 16:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-45-6	Chlorodifluoromethane TIC		1.0	U	

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35695.D
Lims ID: 240-145599-A-33
Client ID: MSA-SW49A-030821
Sample Type: Client
Inject. Date: 16-Mar-2021 16:24:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-017
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 20:02:51 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 08:11:40

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	977320	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	85	817418	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	95	424881	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	281999	26.5	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	295656	25.6	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	93	1012511	23.0	
$	7 4-Bromofluorobenzene (Surr)	95	9.712	9.712	0.000	93	425024	26.8	
	9 Dichlorodifluoromethane	85		1.719				ND	
	10 Chloromethane	50		1.909				ND	7
	11 Vinyl chloride	62	2.027	2.027	0.000	98	13704	0.8288	
	13 Bromomethane	94	2.383	2.383	0.000	75	1868	0.1759	
	14 Chloroethane	64		2.490				ND	
	16 Trichlorofluoromethane	101		2.751				ND	
	19 1,1-Dichloroethene	96		3.260				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272				ND	
	21 Acetone	58	3.308	3.308	0.000	99	1853	2.12	
	24 Carbon disulfide	76		3.474				ND	
	28 Methylene Chloride	84		3.735				ND	
	29 2-Methyl-2-propanol	59		3.806				ND	
	31 Methyl tert-butyl ether	73		3.960				ND	
	32 trans-1,2-Dichloroethene	96		3.984				ND	
	35 Vinyl acetate	43		4.363				ND	
	34 1,1-Dichloroethane	63		4.375				ND	
	36 Isopropyl ether	87		4.387				ND	
	38 Tert-butyl ethyl ether	59		4.707				ND	
	40 2-Butanone (MEK)	72		4.849				ND	
	41 2,2-Dichloropropane	77		4.873				ND	
	39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	80	27664	2.19	
	45 Chlorobromomethane	128		5.075				ND	
	47 Chloroform	83		5.158				ND	
	48 1,1,1-Trichloroethane	97		5.312				ND	
	51 Carbon tetrachloride	117		5.442				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.442				ND	
54 Benzene	78		5.620				ND	7
53 1,2-Dichloroethane	62		5.656				ND	
55 Tert-amyl methyl ether	73		5.703				ND	
58 Trichloroethene	130	6.178	6.178	0.000	95	9484	0.7111	
61 1,2-Dichloropropane	63		6.403				ND	
63 Dibromomethane	93		6.486				ND	
65 Dichlorobromomethane	83		6.628				ND	
67 2-Chloroethyl vinyl ether	63		6.854				ND	
68 cis-1,3-Dichloropropene	75		7.008				ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	
70 Toluene	91	7.316	7.316	0.000	98	12584	0.2455	
71 trans-1,3-Dichloropropene	75		7.506				ND	
75 Tetrachloroethene	164		7.779				ND	
74 1,3-Dichloropropane	76		7.850				ND	
76 2-Hexanone	43		7.873				ND	
78 Chlorodibromomethane	129		8.051				ND	
80 Ethylene Dibromide	107		8.158				ND	
82 Chlorobenzene	112		8.620				ND	
83 1,1,1,2-Tetrachloroethane	131		8.692				ND	
84 Ethylbenzene	106		8.703				ND	
85 m-Xylene & p-Xylene	106		8.810				ND	
86 o-Xylene	106		9.190				ND	7
87 Styrene	104		9.213				ND	
88 Bromoform	173		9.391				ND	
89 Isopropylbenzene	105		9.545				ND	
92 1,1,2,2-Tetrachloroethane	83		9.842				ND	
93 Bromobenzene	156		9.866				ND	
95 1,2,3-Trichloropropane	110		9.901				ND	
96 N-Propylbenzene	120		9.949				ND	
97 2-Chlorotoluene	126		10.043				ND	
100 4-Chlorotoluene	126		10.162				ND	
102 tert-Butylbenzene	119		10.435				ND	
104 1,2,4-Trimethylbenzene	105		10.494				ND	7
105 sec-Butylbenzene	105		10.660				ND	
106 1,3-Dichlorobenzene	146		10.791				ND	
107 4-Isopropyltoluene	119		10.802				ND	
108 1,4-Dichlorobenzene	146		10.885				ND	
109 1,2,3-Trimethylbenzene	105		10.909				ND	
111 n-Butylbenzene	91		11.217				ND	
112 1,2-Dichlorobenzene	146		11.241				ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	
115 1,2,4-Trichlorobenzene	180		12.854				ND	
116 Hexachlorobutadiene	225		13.008				ND	
117 Naphthalene	128		13.139				ND	
118 1,2,3-Trichlorobenzene	180		13.388				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

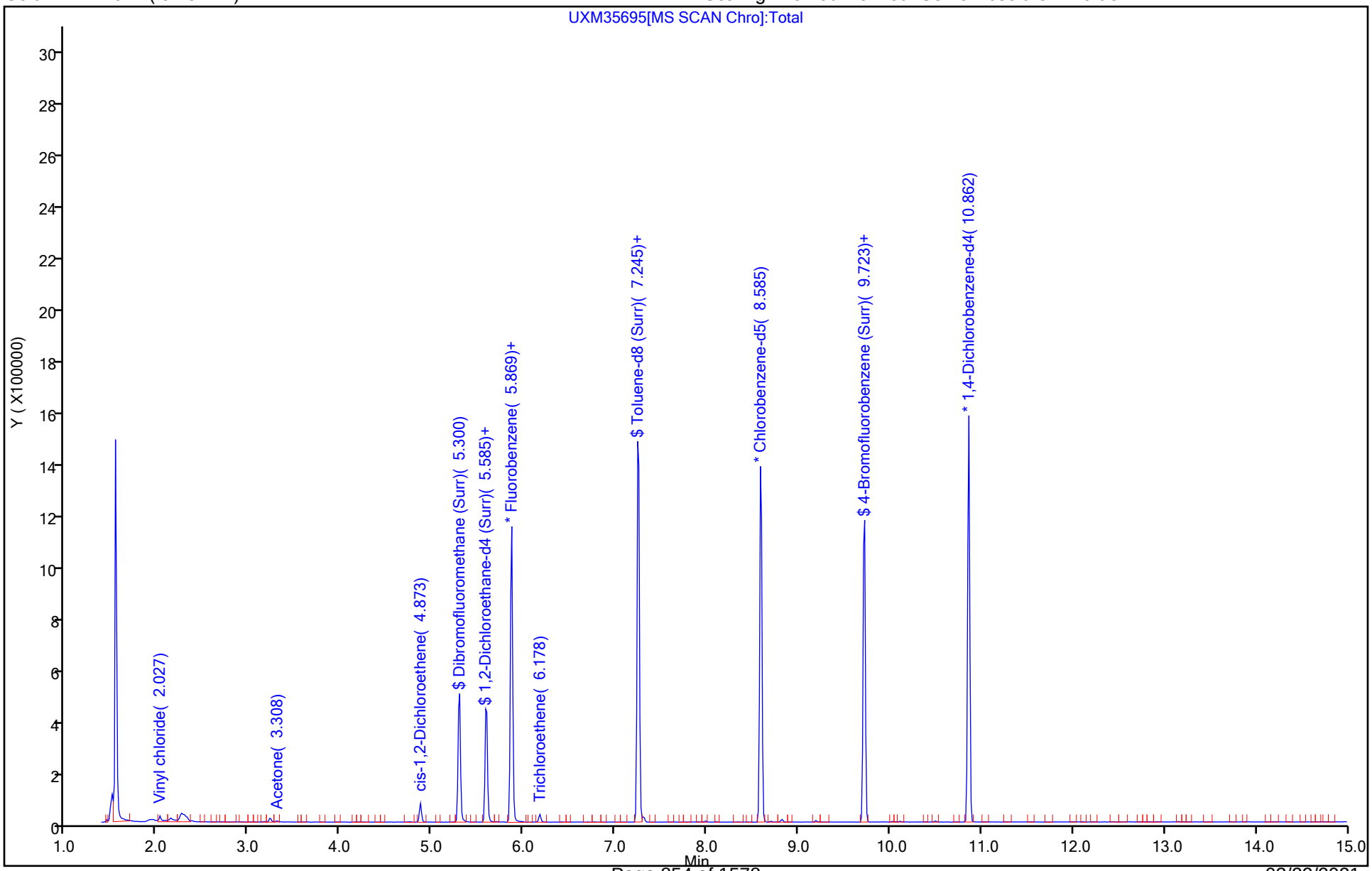
Report Date: 17-Mar-2021 08:11:40 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35695.D

Injection Date:	16-Mar-2021 16:24:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-145599-A-33	Lab Sample ID:	240-145599-33	Worklist Smp#:	17
Client ID:	MSA-SW49A-030821				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35695.D				
Lims ID:	240-145599-A-33				
Client ID:	MSA-SW49A-030821				
Sample Type:	Client				
Inject. Date:	16-Mar-2021 16:24:30	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107315-017				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	16-Mar-2021 20:02:51	Calib Date:	08-Sep-2020 18:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1658				

First Level Reviewer: bosworthh Date: 17-Mar-2021 08:11:40

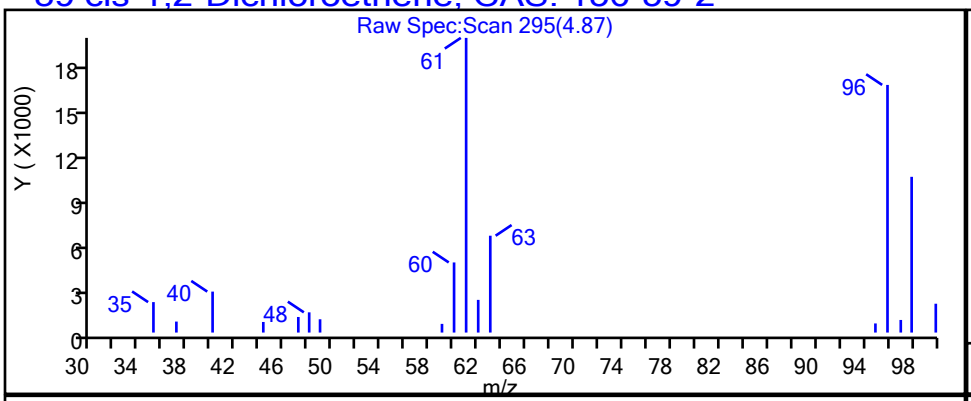
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	26.5	106.23
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.6	102.89
$ 6 Toluene-d8 (Surr)	24.9	23.0	92.45
$ 7 4-Bromofluorobenzene (Surr)	24.9	26.8	107.52

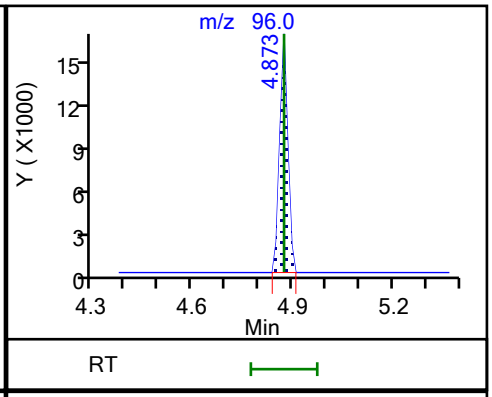
Report Date: 17-Mar-2021 08:11:40 Chrom Revision: 2.3 05-Feb-2021 00:13:28

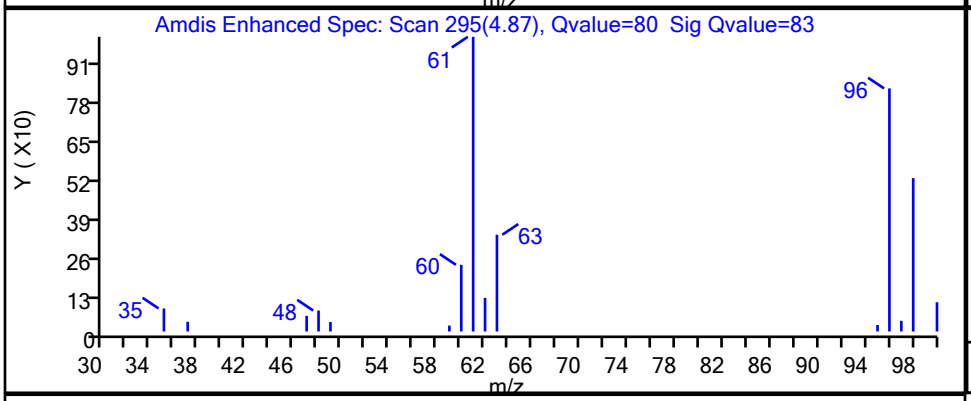
Eurofins TestAmerica, Canton

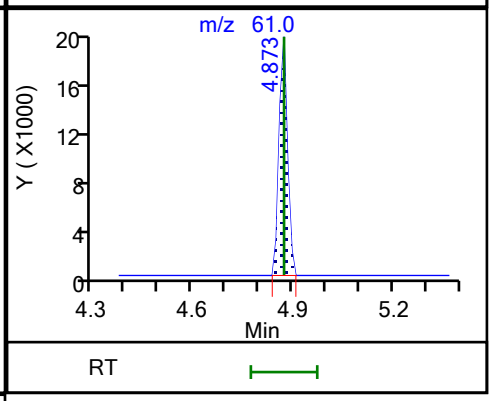
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35695.D				
Injection Date:	16-Mar-2021 16:24:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-A-33	Lab Sample ID:	240-145599-33		
Client ID:	MSA-SW49A-030821				
Operator ID:	001765	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

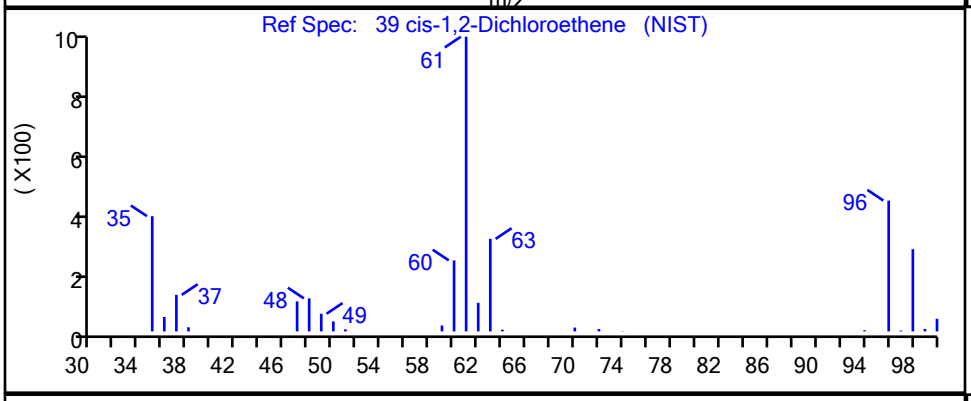
39 cis-1,2-Dichloroethene, CAS: 156-59-2

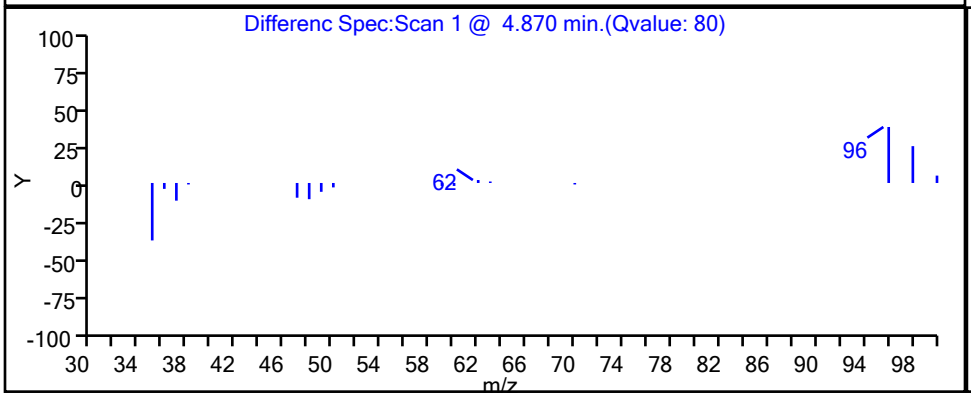


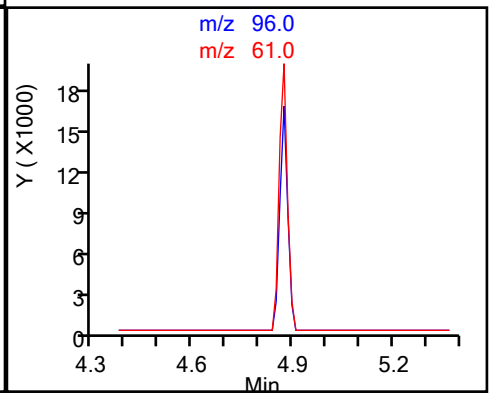










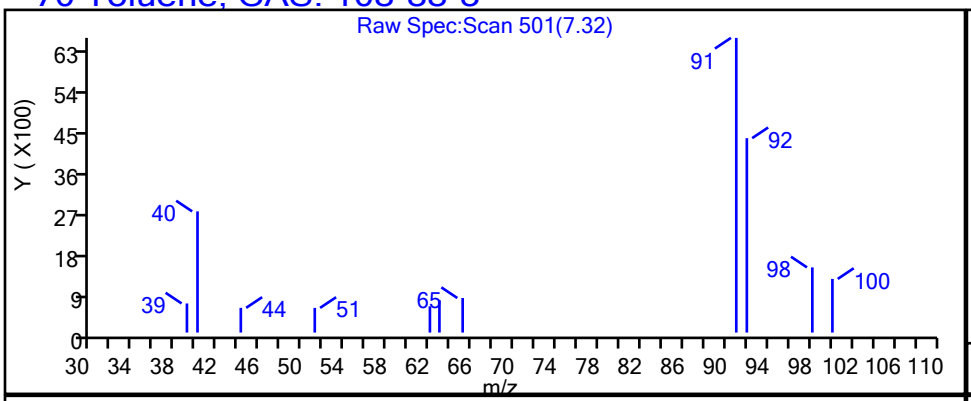


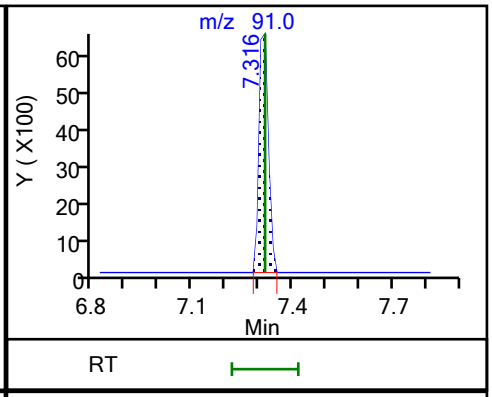
Report Date: 17-Mar-2021 08:11:40 Chrom Revision: 2.3 05-Feb-2021 00:13:28

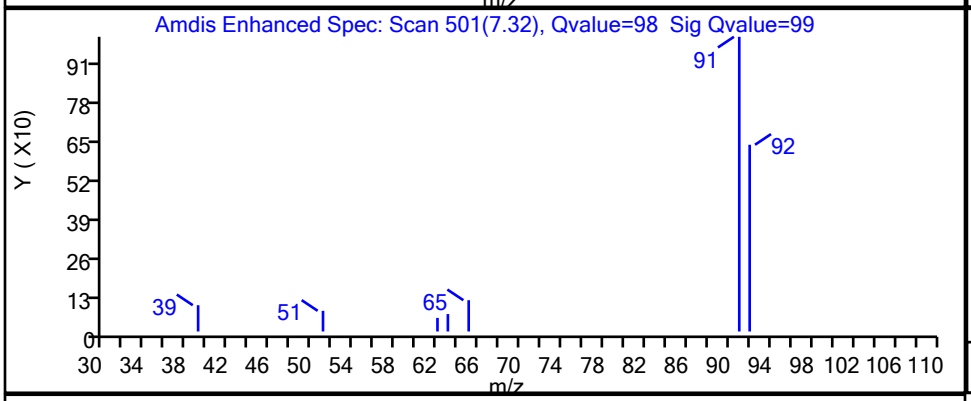
Eurofins TestAmerica, Canton

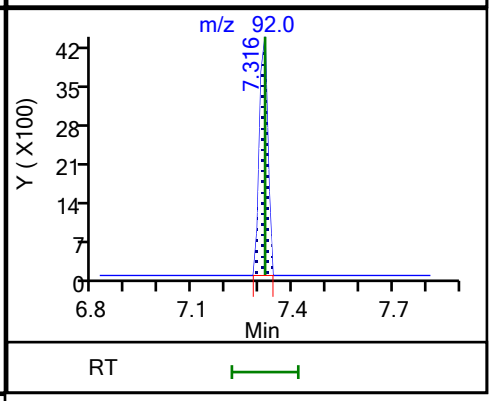
Data File:	\\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35695.D				
Injection Date:	16-Mar-2021 16:24:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-A-33	Lab Sample ID:	240-145599-33		
Client ID:	MSA-SW49A-030821				
Operator ID:	001765	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

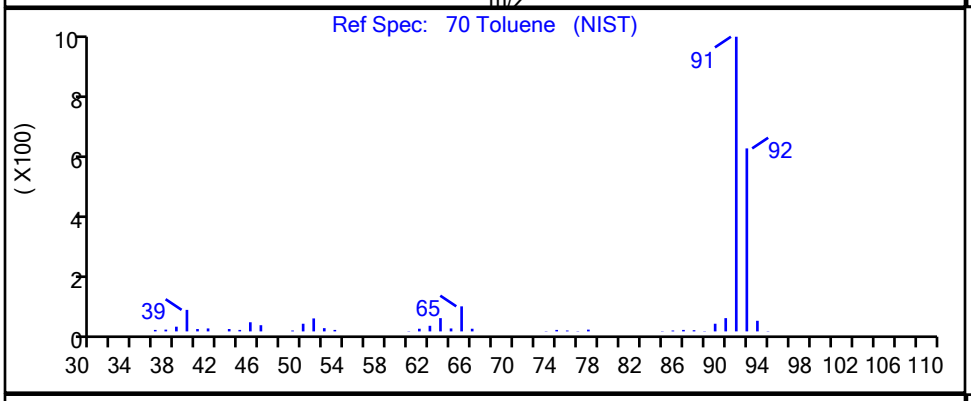
70 Toluene, CAS: 108-88-3

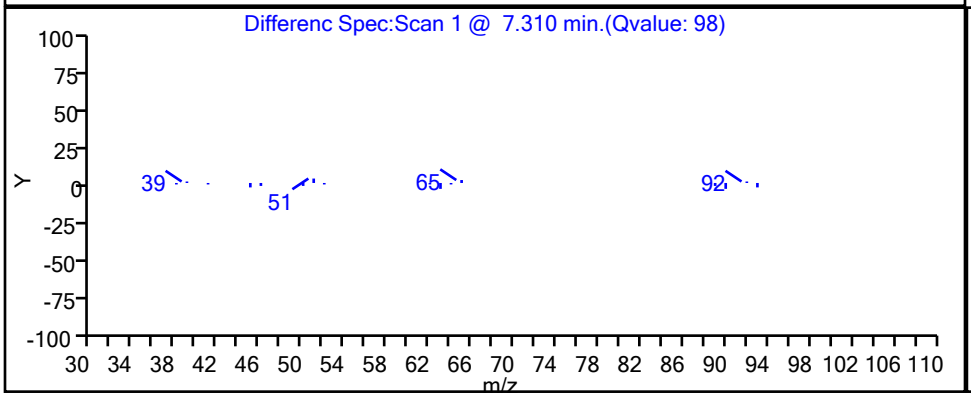


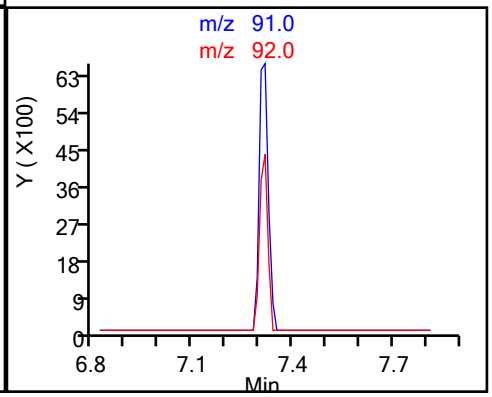










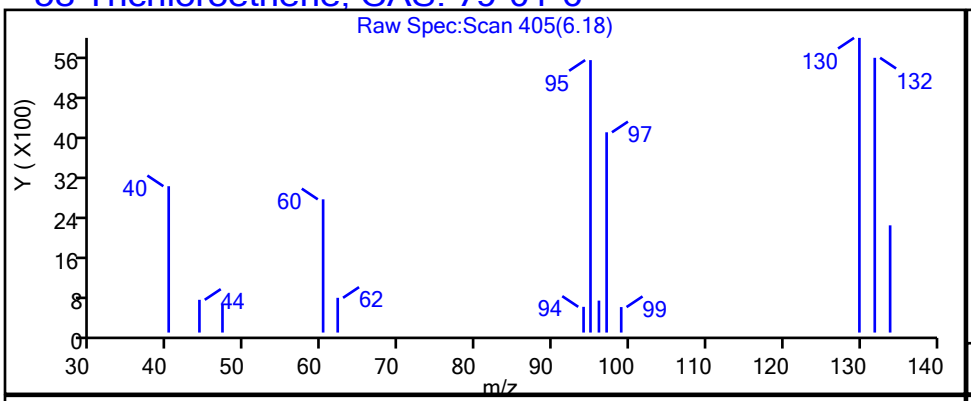


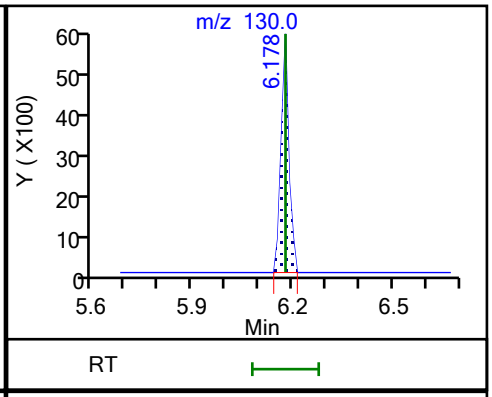
Eurofins TestAmerica, Canton

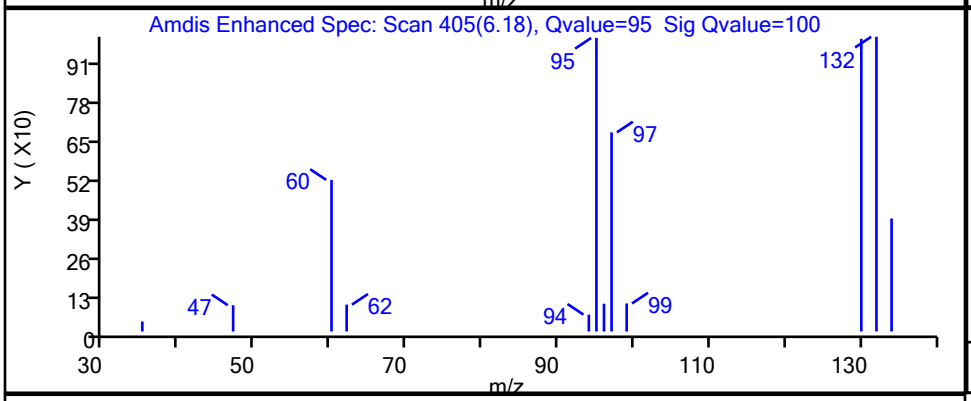
Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35695.D

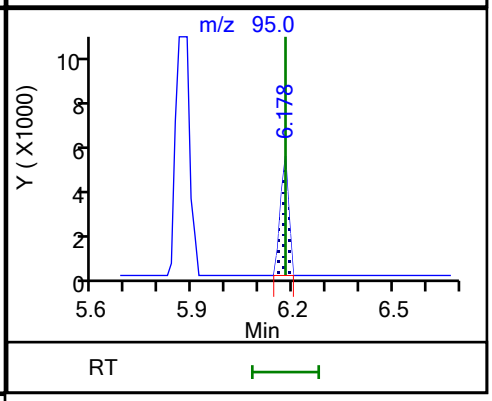
Injection Date:	16-Mar-2021 16:24:30	Instrument ID:	A3UX16
Lims ID:	240-145599-A-33	Lab Sample ID:	240-145599-33
Client ID:	MSA-SW49A-030821		
Operator ID:	001765	ALS Bottle#:	17 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

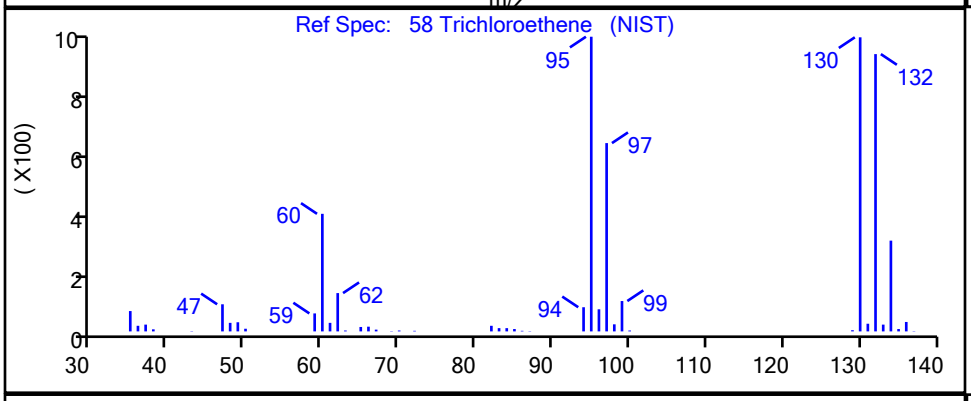
58 Trichloroethene, CAS: 79-01-6

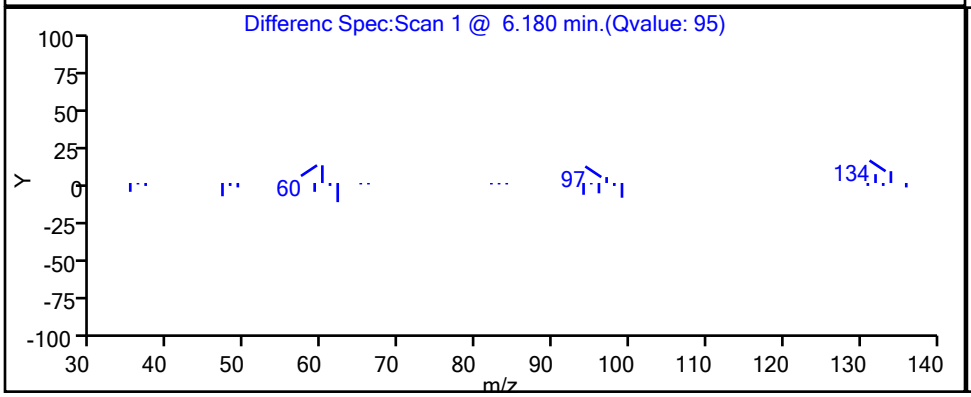


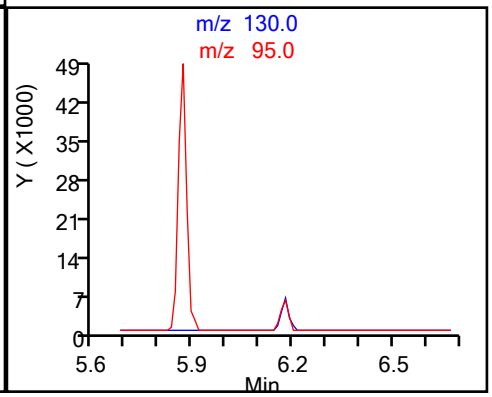












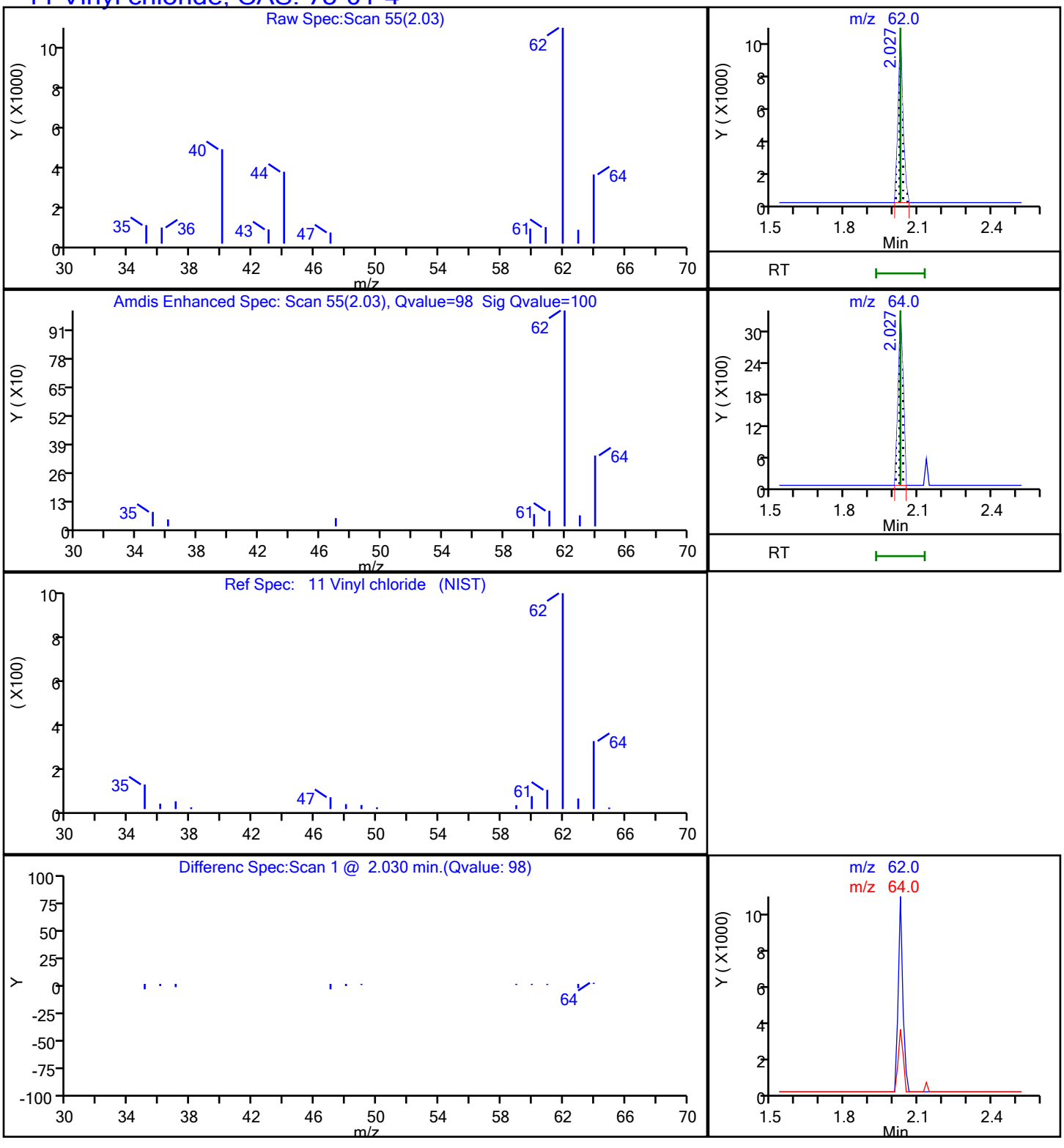
Report Date: 17-Mar-2021 08:11:40 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35695.D

Injection Date:	16-Mar-2021 16:24:30	Instrument ID:	A3UX16		
Lims ID:	240-145599-A-33	Lab Sample ID:	240-145599-33		
Client ID:	MSA-SW49A-030821				
Operator ID:	001765	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

11 Vinyl chloride, CAS: 75-01-4



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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-450378/15	UXM31028.D
Level 2	STD8260 240-450378/14	UXM31027.D
Level 3	STD8260 240-450378/13	UXM31026.D
Level 4	ICIS 240-450378/12	UXM31025.D
Level 5	STD8260 240-450378/11	UXM31024.D
Level 6	STD8260 240-450378/10	UXM31023.D
Level 7	STD8260 240-450378/9	UXM31022.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								
Dichlorodifluoromethane	0.2218 0.2518	0.2214 0.2696	0.2659	0.2384	0.2602	Ave		0.2470			0.1000	8.2		20.0			
Chloromethane	0.3783 0.2945	0.3595 0.2731	0.3151	0.2876	0.2995	Ave		0.3154			0.1000	12.4		20.0			
Vinyl chloride	0.3441 0.3421	0.3320 0.3231	0.3537	0.3285	0.3450	Ave		0.3384			0.1000	3.2		20.0			
Butadiene	0.2796 0.3092	0.2936 0.3004	0.3107	0.2890	0.3054	Ave		0.2983				3.8		20.0			
Bromomethane	0.2541 +++++	0.2217 +++++	0.2020	0.1954	0.2132	Ave		0.2173			0.0500	10.6		20.0			
Chloroethane	0.1655 0.1853	0.1779 0.2067	0.1759	0.1659	0.1841	Ave		0.1802			0.0500	7.8		20.0			
Dichlorofluoromethane	0.3846 0.3845	0.4010 0.3725	0.3846	0.3676	0.3876	Ave		0.3832				2.8		20.0			
Trichlorofluoromethane	0.2930 0.3557	0.3059 0.3590	0.3637	0.3336	0.3592	Ave		0.3386			0.1000	8.5		20.0			
Ethyl ether	0.1631 0.1632	0.1369 0.1628	0.1629	0.1573	0.1706	Ave		0.1595				6.7		20.0			
Acrolein	+++++ 0.0124	0.0103 +++++	0.0120	0.0115	0.0135	Ave		0.0119				10.0		20.0			
1,1-Dichloroethene	0.2222 0.2073	0.1865 0.2038	0.2049	0.2001	0.2092	Ave		0.2049			0.1000	5.2		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1208 0.1694	0.1413 0.1822	0.1752	0.1667	0.1746	Ave		0.1615			0.0500	13.7		20.0			
Acetone	0.0210 0.0158	0.0212 0.0170	0.0175	0.0150	0.0174	Ave		0.0178			0.0100	13.4		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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								
Iodomethane	0.3678 0.3170	0.3606 0.2758	0.2905	0.2939	0.3082	Ave		0.3163				11.2		20.0			
Carbon disulfide	0.6838 0.6546	0.6764 0.6419	0.6598	0.6452	0.6643	Ave		0.6609			0.1000	2.3		20.0			
Methyl acetate	0.1087 0.1222	0.1221 0.1326	0.1311	0.1148	0.1351	Ave		0.1238			0.1000	7.9		20.0			
3-Chloro-1-propene	0.2633 0.2720	0.2858 0.2612	0.2643	0.2604	0.2759	Ave		0.2690				3.5		20.0			
Methylene Chloride	0.2860 0.2270	0.2842 0.2199	0.2333	0.2192	0.2334	Ave		0.2433			0.1000	12.0		20.0			
tert-Butyl alcohol	+++++ 0.0153	0.0147 0.0168	0.0164	0.0141	0.0174	Ave		0.0158				8.1		20.0			
Acrylonitrile	0.0656 0.0726	0.0729 0.0766	0.0760	0.0696	0.0793	Ave		0.0732				6.3		20.0			
Methyl tert-butyl ether	0.4760 0.6053	0.4902 0.6075	0.5877	0.5678	0.6331	Ave		0.5668			0.1000	10.7		20.0			
trans-1,2-Dichloroethene	0.2384 0.2423	0.2596 0.2355	0.2429	0.2345	0.2444	Ave		0.2425			0.1000	3.5		20.0			
Hexane	+++++ 0.2745	0.1945 +++++	0.2886	0.2700	0.2962	Ave		0.2648				15.4		20.0			
Vinyl acetate	0.1774 0.3207	0.2093 0.3398	0.2710	0.2875	0.3366	Lin1	-0.111	0.3282				12.8			0.9970		0.9900
1,1-Dichloroethane	0.3589 0.3855	0.3749 0.3697	0.3804	0.3678	0.3882	Ave		0.3751			0.2000	2.8		20.0			
2-Butanone	+++++ 0.0233	0.0122 0.0251	0.0234	0.0204	0.0250	Lin1	-0.028	0.0244			0.0100	8.4			0.9970		0.9900
cis-1,2-Dichloroethene	0.2521 0.2623	0.2643 0.2545	0.2562	0.2551	0.2673	Ave		0.2588			0.1000	2.2		20.0			
2,2-Dichloropropane	0.2918 0.3402	0.2993 0.3392	0.3205	0.3204	0.3420	Ave		0.3219				6.3		20.0			
Bromochloromethane	0.1180 0.1235	0.1223 0.1158	0.1274	0.1225	0.1265	Ave		0.1223				3.4		20.0			
Tetrahydrofuran	0.0351 0.0470	0.0489 0.0517	0.0490	0.0450	0.0525	Ave		0.0470				12.4		20.0			
Chloroform	0.3746 0.3883	0.4063 0.3741	0.3899	0.3805	0.3963	Ave		0.3871			0.2000	3.0		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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								
1,1,1-Trichloroethane	0.3237 0.3547	0.3213 0.3428	0.3533	0.3400	0.3573	Ave		0.3419			0.1000	4.3		20.0			
Cyclohexane	0.2456 0.3363	0.2801 0.3663	0.3404	0.3252	0.3429	Ave		0.3195			0.1000	13.1		20.0			
1,1-Dichloropropene	0.2701 0.3241	0.2662 0.3191	0.3132	0.3070	0.3240	Ave		0.3034				8.2		20.0			
Carbon tetrachloride	0.2792 0.3197	0.2877 0.3130	0.3080	0.2981	0.3204	Ave		0.3037			0.1000	5.3		20.0			
Isobutyl alcohol	0.0028 0.0046	0.0033 0.0052	0.0047	0.0042	0.0052	Lin1	-0.036	0.0049				10.1			0.9950		0.9900
Benzene	0.8958 0.9477	0.8544 0.9278	0.9308	0.9089	0.9649	Ave		0.9186			0.5000	4.0		20.0			
1,2-Dichloroethane	0.2645 0.2824	0.2802 0.2758	0.2835	0.2723	0.2917	Ave		0.2786			0.1000	3.1		20.0			
n-Heptane	1.2696 0.1520	0.6897 +++++	0.2114	0.1709	0.1691	Lin1	0.5569	0.1475				7.2			0.9980		0.9900
Trichloroethene	0.2818 0.2788	0.2559 0.2695	0.2749	0.2670	0.2825	Ave		0.2729			0.1500	3.5		20.0			
Methylcyclohexane	+++++ 0.3870	0.2788 0.4357	0.3872	0.3702	0.3992	Ave		0.3764			0.1000	14.0		20.0			
1,2-Dichloropropane	0.1984 0.2181	0.1841 0.2122	0.2140	0.2101	0.2235	Ave		0.2086			0.1000	6.4		20.0			
1,4-Dioxane	+++++ 0.0025	0.0021 0.0026	0.0026	0.0022	0.0028	Ave		0.0025				10.7		20.0			
Dibromomethane	0.1250 0.1340	0.1361 0.1285	0.1306	0.1289	0.1378	Ave		0.1316				3.5		20.0			
Bromodichloromethane	0.2580 0.2908	0.2694 0.2803	0.2760	0.2713	0.2929	Ave		0.2770			0.1500	4.4		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1378	0.0989 0.1389	0.1289	0.1256	0.1440	Ave		0.1290				12.6		20.0			
cis-1,3-Dichloropropene	0.2784 0.3700	0.3087 0.3601	0.3444	0.3414	0.3763	Ave		0.3399			0.1500	10.3		20.0			
4-Methyl-2-pentanone	+++++ 0.1440	0.1098 0.1530	0.1421	0.1345	0.1594	Ave		0.1404			0.0500	12.4		20.0			
Toluene	1.1351 1.3150	1.1636 1.3035	1.2726	1.2619	1.3268	Ave		1.2541			0.4000	6.0		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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								
trans-1,3-Dichloropropene	0.3164 0.4350	0.3325 0.4276	0.3934	0.3933	0.4384	Ave		0.3909			0.1000	12.6		20.0			
Ethyl methacrylate	+++++ 0.3165	0.2139 0.3254	0.2801	0.2912	0.3320	Ave		0.2932				14.9		20.0			
1,1,2-Trichloroethane	0.1902 0.2536	0.2320 0.2512	0.2457	0.2429	0.2602	Ave		0.2394			0.1000	9.8		20.0			
Tetrachloroethene	0.2550 0.3014	0.2639 0.2975	0.2761	0.2777	0.2985	Ave		0.2814			0.1500	6.5		20.0			
1,3-Dichloropropane	0.3205 0.4488	0.3791 0.4435	0.4273	0.4227	0.4594	Ave		0.4145				11.8		20.0			
2-Hexanone	+++++ 0.1261	0.0995 0.1358	0.1277	0.1193	0.1398	Ave		0.1247			0.0500	11.5		20.0			
Dibromochloromethane	0.2163 0.2991	0.2263 0.2949	0.2634	0.2693	0.2974	Ave		0.2667				12.8		20.0			
1,2-Dibromoethane	0.1998 0.2653	0.2105 0.2614	0.2519	0.2508	0.2731	Ave		0.2447				11.5		20.0			
Chlorobenzene	0.8285 0.8839	0.8297 0.8689	0.8631	0.8603	0.8857	Ave		0.8600			0.3000	2.7		20.0			
1,1,1,2-Tetrachloroethane	0.2131 0.3217	0.2432 0.3162	0.2878	0.2927	0.3179	Ave		0.2847				14.6		20.0			
Ethylbenzene	0.4234 0.4904	0.4369 0.4898	0.4717	0.4677	0.4923	Ave		0.4675				5.9		20.0			
m-Xylene & p-Xylene	0.5160 0.6081	0.5232 0.6001	0.5775	0.5819	0.6124	Ave		0.5742				6.9		20.0			
o-Xylene	0.4893 0.5895	0.5046 0.5671	0.5484	0.5608	0.5801	Ave		0.5485				6.9		20.0			
Styrene	0.7552 0.9871	0.7834 0.9658	0.9143	0.9325	0.9848	Ave		0.9033			0.3000	10.6		20.0			
Bromoform	+++++ 0.2009	0.1488 0.2030	0.1641	0.1713	0.2026	Ave		0.1818			0.1000	12.9		20.0			
Isopropylbenzene	1.2134 1.5091	1.2019 1.4875	1.4375	1.4522	1.5016	Ave		1.4004			0.1000	9.6		20.0			
1,1,2,2-Tetrachloroethane	0.4426 0.5078	0.4953 0.5189	0.5386	0.5154	0.5510	Ave		0.5099			0.3000	6.9		20.0			
Bromobenzene	0.6096 0.6743	0.6562 0.6684	0.6697	0.6634	0.6961	Ave		0.6625				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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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								
trans-1,4-Dichloro-2-butene	+++++ 0.1475	0.1253 0.1531	0.1508	0.1420	0.1566	Ave		0.1459				7.7		20.0			
1,2,3-Trichloropropane	0.1561 0.1774	0.1776 0.1819	0.1958	0.1798	0.1932	Ave		0.1803				7.2		20.0			
n-Propylbenzene	0.6132 0.7743	0.7088 0.7636	0.7846	0.7837	0.7970	Ave		0.7465				8.8		20.0			
2-Chlorotoluene	0.5429 0.6483	0.6014 0.6309	0.6689	0.6480	0.6652	Ave		0.6294				7.0		20.0			
1,3,5-Trimethylbenzene	1.6130 2.1318	1.8371 2.0970	2.1585	2.1234	2.1789	Ave		2.0200				10.6		20.0			
4-Chlorotoluene	0.5490 0.6702	0.6204 0.6545	0.6858	0.6754	0.6992	Ave		0.6506				7.9		20.0			
tert-Butylbenzene	1.5859 1.9134	1.7640 1.8932	1.9285	1.9144	1.9629	Ave		1.8518				7.2		20.0			
1,2,4-Trimethylbenzene	1.5750 2.1356	1.7246 2.0831	2.1337	2.1180	2.1609	Ave		1.9901				11.9		20.0			
sec-Butylbenzene	2.1202 2.7901	2.4857 2.7520	2.8239	2.7829	2.8586	Ave		2.6591				10.1		20.0			
1,3-Dichlorobenzene	1.2312 1.3012	1.2672 1.2554	1.2539	1.2588	1.3216	Ave		1.2699			0.6000	2.4		20.0			
p-Isopropyltoluene	1.7102 2.4835	2.0522 2.4489	2.4301	2.4445	2.5072	Ave		2.2966				13.1		20.0			
1,4-Dichlorobenzene	1.2723 1.2924	1.2688 1.2655	1.2913	1.2577	1.3209	Ave		1.2813			0.5000	1.7		20.0			
n-Butylbenzene	1.4986 2.0989	1.7422 2.0828	2.0752	2.0435	2.1322	Ave		1.9534				12.3		20.0			
1,2-Dichlorobenzene	1.0596 1.1963	1.2020 1.1629	1.1881	1.1743	1.2368	Ave		1.1743			0.4000	4.7		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1203	0.0922 0.1260	0.1182	0.1080	0.1301	Ave		0.1158			0.0500	11.9		20.0			
1,2,4-Trichlorobenzene	0.5767 0.7300	0.6067 0.7181	0.6566	0.6719	0.7296	Ave		0.6699			0.2000	9.1		20.0			
Hexachlorobutadiene	0.2694 0.3640	0.3392 0.3663	0.3312	0.3391	0.3729	Ave		0.3403				10.3		20.0			
Naphthalene	1.2126 1.5989	1.3344 1.6436	1.5323	1.4810	1.6951	Ave		1.4997				11.5		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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								
1,2,3-Trichlorobenzene	0.5312 0.6177	0.6018 0.6193	0.6026	0.5727	0.6527	Ave		0.5997				6.4		20.0			
Dibromofluoromethane (Surr)	0.2007 0.2242	0.2218 0.2164	0.2194	0.2146	0.2289	Ave		0.2180				4.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2375 0.2328	0.2484 0.2314	0.2386	0.2217	0.2415	Ave		0.2360				3.6		20.0			
Toluene-d8 (Surr)	0.9462 1.1282	1.0139 1.1330	1.0887	1.0746	1.1426	Ave		1.0753				6.7		20.0			
4-Bromofluorobenzene (Surr)	+++++ 0.3956	0.3765 0.3894	0.3880	0.3796	0.3997	Ave		0.3881				2.3		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-450378/15	UXM31028.D
Level 2	STD8260 240-450378/14	UXM31027.D
Level 3	STD8260 240-450378/13	UXM31026.D
Level 4	ICIS 240-450378/12	UXM31025.D
Level 5	STD8260 240-450378/11	UXM31024.D
Level 6	STD8260 240-450378/10	UXM31023.D
Level 7	STD8260 240-450378/9	UXM31022.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
Dichlorodifluoromethane	FB	Ave	4665 745131	9486 1096048	126306	227765	512634	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloromethane	FB	Ave	7957 871361	15405 1110343	149665	274711	590076	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl chloride	FB	Ave	7238 1012197	14226 1313554	168014	313862	679879	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Butadiene	FB	Ave	5881 914827	12580 1221080	147574	276064	601757	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromomethane	FB	Ave	5345 +++++	9499 +++++	95953	186631	420133	0.500 +++++	1.00 +++++	10.0	20.0	40.0
Chloroethane	FB	Ave	3482 548317	7624 840147	83551	158483	362824	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	8090 1137799	17183 1514080	182674	351184	763828	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	6163 1052482	13107 1459454	172726	318731	707684	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl ether	FB	Ave	3432 482766	5866 661598	77374	150301	336091	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acrolein	FB	Ave	+++++ 182892	2199 +++++	28530	54891	133174	+++++ 300	5.00 +++++	50.0	100	200
1,1-Dichloroethene	FB	Ave	4675 613475	7991 828592	97332	191182	412233	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2542 501383	6055 740610	83204	159259	344047	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acetone	FB	Ave	885 93482	1814 137949	16639	28725	68698	1.00 120	2.00 160	20.0	40.0	80.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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
Iodomethane	FB	Ave	7737 937946	15454 1121127	137997	280739	607259	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon disulfide	FB	Ave	14385 1937057	28986 2609436	313390	616385	1308981	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl acetate	FB	Ave	4573 723056	10468 1078188	124579	219369	532525	1.00 120	2.00 160	20.0	40.0	80.0
3-Chloro-1-propene	FB	Ave	5538 804942	12249 1061610	125526	248783	543714	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylene Chloride	FB	Ave	6017 671839	12177 893994	110800	209370	459897	0.500 60.0	1.00 80.0	10.0	20.0	40.0
tert-Butyl alcohol	FB	Ave	+++++ 452953	6282 684907	77688	135048	341990	+++++ 600	10.0 800	100	200	400
Acrylonitrile	FB	Ave	13809 2146830	31232 3114778	360846	664569	1561999	5.00 600	10.0 800	100	200	400
Methyl tert-butyl ether	FB	Ave	10014 1791186	21006 2469446	279149	542453	1247519	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	5014 717027	11126 957447	115378	224002	481658	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexane	FB	Ave	+++++ 812220	8335 +++++	137081	257886	583618	+++++ 60.0	1.00 +++++	10.0	20.0	40.0
Vinyl acetate	FB	Lin1	3731 948886	8968 1381139	128725	274666	663154	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	7550 1140699	16067 1502970	180676	351386	764973	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Butanone	FB	Lin1	+++++ 137692	1042 203878	22232	38988	98627	+++++ 120	2.00 160	20.0	40.0	80.0
cis-1,2-Dichloroethene	FB	Ave	5303 776002	11326 1034403	121706	243716	526609	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	6138 1006523	12827 1379044	152244	306107	673786	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromochloromethane	FB	Ave	2482 365325	5242 470910	60499	117007	249202	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrahydrofuran	FB	Ave	1478 278245	4187 419976	46517	85989	206722	1.00 120	2.00 160	20.0	40.0	80.0
Chloroform	FB	Ave	7880 1148977	17409 1520699	185173	363463	780869	0.500 60.0	1.00 80.0	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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
1,1,1-Trichloroethane	FB	Ave	6809 1049551	13769 1393442	167803	324837	704006	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Cyclohexane	FB	Ave	5166 995055	12004 1489074	161683	310680	675623	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	5681 958880	11408 1297043	148760	293279	638498	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	5873 946104	12330 1272263	146275	284754	631395	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Isobutyl alcohol	FB	Lin1	1480 341332	3530 525070	55676	100513	254808	12.5 1500	25.0 2000	250	500	1000
Benzene	FB	Ave	18845 2804292	36613 3771486	442100	868256	1901286	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	5565 835597	12009 1121069	134627	260130	574817	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Heptane	FB	Lin1	26707 449823	29555 +++++	100398	163268	333099	0.500 60.0	1.00 +++++	10.0	20.0	40.0
Trichloroethene	FB	Ave	5929 825111	10964 1095743	130574	255094	556593	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	+++++ 1145090	11948 1771032	183908	353700	786565	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	4173 645329	7887 862746	101634	200726	440298	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 147449	1762 208939	24666	42478	109037	+++++ 1200	20.0 1600	200	400	800
Dibromomethane	FB	Ave	2630 396385	5834 522492	62006	123177	271437	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromodichloromethane	FB	Ave	5428 860357	11545 1139283	131089	259213	577147	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 815405	8476 1129127	122410	239979	567444	+++++ 120	2.00 160	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	5856 1094811	13227 1463938	163597	326122	741413	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Methyl-2-pentanone	FB	Ave	+++++ 851990	9406 1244054	134958	256926	628003	+++++ 120	2.00 160	20.0	40.0	80.0
Toluene	CBNZ d5	Ave	19729	41109	479847	938059	2039743	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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
			3011770	4057355				60.0	80.0			
trans-1,3-Dichloropropene	CBNZ d5	Ave	5499 996267	11747 1330925	148347	292377	673884	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 724838	7556 1012874	105621	216473	510420	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3305 580728	8198 781869	92657	180594	400018	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	4432 690225	9324 925879	104096	206410	458925	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichloropropane	CBNZ d5	Ave	5570 1027994	13393 1380488	161106	314262	706289	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Hexanone	CBNZ d5	Ave	+++++ 577473	7030 845199	96295	177407	429724	+++++ 120	2.00 160	20.0	40.0	80.0
Dibromochloromethane	CBNZ d5	Ave	3760 685086	7995 917799	99325	200173	457254	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromoethane	CBNZ d5	Ave	3472 607659	7438 813685	94969	186444	419853	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chlorobenzene	CBNZ d5	Ave	14399 2024322	29312 2704599	325429	639571	1361605	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3704 736691	8594 984172	108530	217609	488684	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethylbenzene	CBNZ d5	Ave	7359 1123177	15435 1524597	177845	347713	756865	0.500 60.0	1.00 80.0	10.0	20.0	40.0
m-Xylene & p-Xylene	CBNZ d5	Ave	8968	18486	217767	432592	941488	0.500	1.00	10.0	20.0	40.0

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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
			1392681	1868000				60.0	80.0			
o-Xylene	CBNZ d5	Ave	8505 1350111	17828 1765045	206785	416898	891801	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Styrene	CBNZ d5	Ave	13125 2260683	27678 3006004	344743	693212	1513984	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromoform	CBNZ d5	Ave	+++++ 460205	5256 631827	61865	127319	311415	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Isopropylbenzene	CBNZ d5	Ave	21090 3456206	42462 4629878	542009	1079601	2308401	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4265 678721	9414 937618	110519	212748	478558	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromobenzene	DCBd 4	Ave	5874 901413	12472 1207707	137415	273875	604593	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 197195	2381 276670	30947	58600	136003	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichloropropane	DCBd 4	Ave	1504 237185	3375 328647	40174	74238	167810	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Propylbenzene	DCBd 4	Ave	5909 1035010	13473 1379627	160990	323520	692257	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chlorotoluene	DCBd 4	Ave	5232 866639	11432 1139934	137252	267505	577725	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	15543 2849609	34919 3788867	442911	876543	1892509	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Chlorotoluene	DCBd 4	Ave	5290	11792	140726	278802	607272	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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
			895912	1182465				60.0	80.0			
tert-Butylbenzene	DCBd 4	Ave	15282 2557650	33529 3420590	395706	790282	1704932	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	15177 2854633	32781 3763780	437820	874333	1876870	0.500 60.0	1.00 80.0	10.0	20.0	40.0
sec-Butylbenzene	DCBd 4	Ave	20431 3729613	47246 4972313	579450	1148815	2482909	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichlorobenzene	DCBd 4	Ave	11864 1739274	24087 2268220	257296	519642	1147861	0.500 60.0	1.00 80.0	10.0	20.0	40.0
p-Isopropyltoluene	DCBd 4	Ave	16480 3319699	39007 4424579	498636	1009090	2177630	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dichlorobenzene	DCBd 4	Ave	12260 1727570	24117 2286401	264974	519200	1147309	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Butylbenzene	DCBd 4	Ave	14441 2805692	33115 3763123	425819	843589	1851941	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichlorobenzene	DCBd 4	Ave	10211 1599122	22847 2101050	243791	484748	1074224	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 160845	1752 227651	24251	44593	112988	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	5557 975744	11531 1297390	134730	277363	633734	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexachlorobutadiene	DCBd 4	Ave	2596 486539	6447 661758	67962	139998	323865	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Naphthalene	DCBd 4	Ave	11685	25363	314418	611384	1472308	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

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
			2137279	2969700				60.0	80.0			
1,2,3-Trichlorobenzene	DCBd 4	Ave	5119 825636	11438 1119006	123648	236399	566895	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	4221 663483	9504 879528	104187	205047	451079	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	4996 688950	10645 940507	113309	211750	475834	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Toluene-d8 (Surr)	CBNZ d5	Ave	16446 2583965	35823 3526711	410525	798835	1756542	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	+++++ 905980	13303 1211964	146317	282170	614486	+++++ 60.0	1.00 80.0	10.0	20.0	40.0

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 12:22 Calibration End Date: 09/08/2020 14:50 Calibration ID: 58341

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-450378/15	UXM31028.D
Level 2	STD8260 240-450378/14	UXM31027.D
Level 3	STD8260 240-450378/13	UXM31026.D
Level 4	ICIS 240-450378/12	UXM31025.D
Level 5	STD8260 240-450378/11	UXM31024.D
Level 6	STD8260 240-450378/10	UXM31023.D
Level 7	STD8260 240-450378/9	UXM31022.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Vinyl acetate	21.6						50					
2-Butanone	+++++	7.4						50				
Isobutyl alcohol	14.7						50					
n-Heptane	5.5 +++++						50					

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Lims ID: std8260 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Sep-2020 12:22:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-009
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:52:34 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 13:06:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1016272	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	82	778146	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	92	451694	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	879528	80.0	79.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.596	0.001	97	940507	80.0	78.4	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	3526711	80.0	84.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	1211964	80.0	80.3	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	1096048	80.0	87.3	
10 Chloromethane	50	1.909	1.908	0.001	99	1110343	80.0	69.3	
11 Vinyl chloride	62	2.027	2.027	0.000	98	1313554	80.0	76.4	
12 Butadiene	54	2.075	2.074	0.001	97	1221080	80.0	80.6	
13 Bromomethane	94		2.359				ND	ND	U
14 Chloroethane	64	2.478	2.490	-0.012	100	840147	80.0	91.8	
15 Dichlorofluoromethane	67	2.715	2.715	0.000	98	1514080	80.0	77.8	
16 Trichlorofluoromethane	101	2.751	2.750	0.001	98	1459454	80.0	84.8	
17 Ethyl ether	59	3.035	3.035	0.000	87	661598	80.0	81.6	
18 Acrolein	56		3.165				ND	ND	U
19 1,1-Dichloroethene	96	3.260	3.260	0.000	98	828592	80.0	79.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	93	740610	80.0	90.3	
21 Acetone	58	3.308	3.308	0.000	99	137949	160.0	152.1	
23 Iodomethane	142	3.403	3.414	-0.011	98	1121127	80.0	69.8	
24 Carbon disulfide	76	3.474	3.474	0.000	99	2609436	80.0	77.7	
27 Methyl acetate	43	3.593	3.604	-0.011	96	1078188	160.0	171.4	
26 3-Chloro-1-propene	41	3.604	3.616	-0.012	86	1061610	80.0	77.7	
28 Methylene Chloride	84	3.735	3.735	0.000	88	893994	80.0	72.3	
29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	684907	800.0	854.3	
30 Acrylonitrile	53	3.948	3.948	0.000	99	3114778	800.0	837.2	
31 Methyl tert-butyl ether	73	3.972	3.972	0.000	94	2469446	80.0	85.7	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	96	957447	80.0	77.7	
33 Hexane	57		4.221				ND	ND	U
35 Vinyl acetate	43	4.363	4.363	0.000	97	1381139	80.0	83.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	1502970	80.0	78.9	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	98	203878	160.0	165.8	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	80	1034403	80.0	78.7	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	87	1379044	80.0	84.3	
45 Chlorobromomethane	128	5.087	5.087	0.000	87	470910	80.0	75.8	
46 Tetrahydrofuran	42	5.087	5.087	0.000	83	419976	160.0	175.8	
47 Chloroform	83	5.158	5.158	0.000	93	1520699	80.0	77.3	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	1393442	80.0	80.2	
49 Cyclohexane	56	5.371	5.371	0.000	86	1489074	80.0	91.7	
51 Carbon tetrachloride	117	5.442	5.442	0.000	91	1272263	80.0	82.4	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	1297043	80.0	84.1	
52 Isobutyl alcohol	41	5.502	5.502	0.000	93	525070	2000.0	2103.0	
54 Benzene	78	5.620	5.620	0.000	95	3771486	80.0	80.8	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	1121069	80.0	79.2	
56 n-Heptane	57		5.845				ND	ND	U
58 Trichloroethene	130	6.178	6.178	0.000	95	1095743	80.0	79.0	
60 Methylcyclohexane	83	6.379	6.391	-0.012	88	1771032	80.0	92.6	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	95	862746	80.0	81.4	
64 1,4-Dioxane	88	6.462	6.462	0.000	89	208939	1600.0	1677.8	
63 Dibromomethane	93	6.486	6.486	0.000	92	522492	80.0	78.2	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	1139283	80.0	81.0	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	93	1129127	160.0	172.3	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	1463938	80.0	84.8	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	1244054	160.0	174.3	
70 Toluene	91	7.316	7.316	0.000	99	4057355	80.0	83.2	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	96	1330925	80.0	87.5	
72 Ethyl methacrylate	69	7.541	7.541	0.000	87	1012874	80.0	88.8	
73 1,1,2-Trichloroethane	97	7.696	7.695	0.001	90	781869	80.0	83.9	
75 Tetrachloroethene	164	7.779	7.778	0.001	98	925879	80.0	84.6	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	86	1380488	80.0	85.6	
76 2-Hexanone	43	7.873	7.873	0.000	94	845199	160.0	174.2	
78 Chlorodibromomethane	129	8.051	8.051	0.000	89	917799	80.0	88.5	
80 Ethylene Dibromide	107	8.170	8.170	0.000	99	813685	80.0	85.5	
82 Chlorobenzene	112	8.621	8.620	0.001	97	2704599	80.0	80.8	
84 Ethylbenzene	106	8.704	8.703	0.001	98	1524597	80.0	83.8	
83 1,1,1,2-Tetrachloroethane	131	8.704	8.703	0.001	94	984172	80.0	88.9	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	1868000	80.0	83.6	
86 o-Xylene	106	9.190	9.201	-0.011	97	1765045	80.0	82.7	
87 Styrene	104	9.213	9.213	0.000	95	3006004	80.0	85.5	
88 Bromoform	173	9.403	9.403	0.000	98	631827	80.0	89.3	
89 Isopropylbenzene	105	9.546	9.545	0.001	95	4629878	80.0	85.0	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	937618	80.0	81.4	
93 Bromobenzene	156	9.866	9.865	0.001	89	1207707	80.0	80.7	
94 trans-1,4-Dichloro-2-butene	53	9.878	9.877	0.001	81	276670	80.0	84.0	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	82	328647	80.0	80.7	
96 N-Propylbenzene	120	9.949	9.949	0.001	98	1379627	80.0	81.8	
97 2-Chlorotoluene	126	10.044	10.043	0.001	98	1139934	80.0	80.2	
99 1,3,5-Trimethylbenzene	105	10.127	10.126	0.001	94	3788867	80.0	83.1	
100 4-Chlorotoluene	126	10.174	10.174	0.000	96	1182465	80.0	80.5	
102 tert-Butylbenzene	119	10.447	10.447	0.000	91	3420590	80.0	81.8	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	3763780	80.0	83.7	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	4972313	80.0	82.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.790	0.001	98	2268220	80.0	79.1	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	4424579	80.0	85.3	
108 1,4-Dichlorobenzene	146	10.886	10.885	0.001	96	2286401	80.0	79.0	
111 n-Butylbenzene	91	11.218	11.217	0.001	97	3763123	80.0	85.3	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	2101050	80.0	79.2	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	93	227651	80.0	87.0	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	1297390	80.0	85.7	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	96	661758	80.0	86.1	
117 Naphthalene	128	13.150	13.150	0.000	96	2969700	80.0	87.7	
118 1,2,3-Trichlorobenzene	180	13.400	13.399	0.001	95	1119006	80.0	82.6	
S 134 Trihalomethanes, Total	1				0		320.0	336.1	
S 158 Total BTEX	1				0		400.0	414.1	
S 131 1,2-Dichloroethene, Total	96				0			156.3	
S 132 1,3-Dichloropropene, Total	75				0			172.3	
S 133 Xylenes, Total	106				0		160.0	166.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vmrgas_00353	Amount Added:	64.00	Units: uL
vmarolistdw_00359	Amount Added:	64.00	Units: uL
vmrprimw_00402	Amount Added:	64.00	Units: uL
vm50ss_00417	Amount Added:	64.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

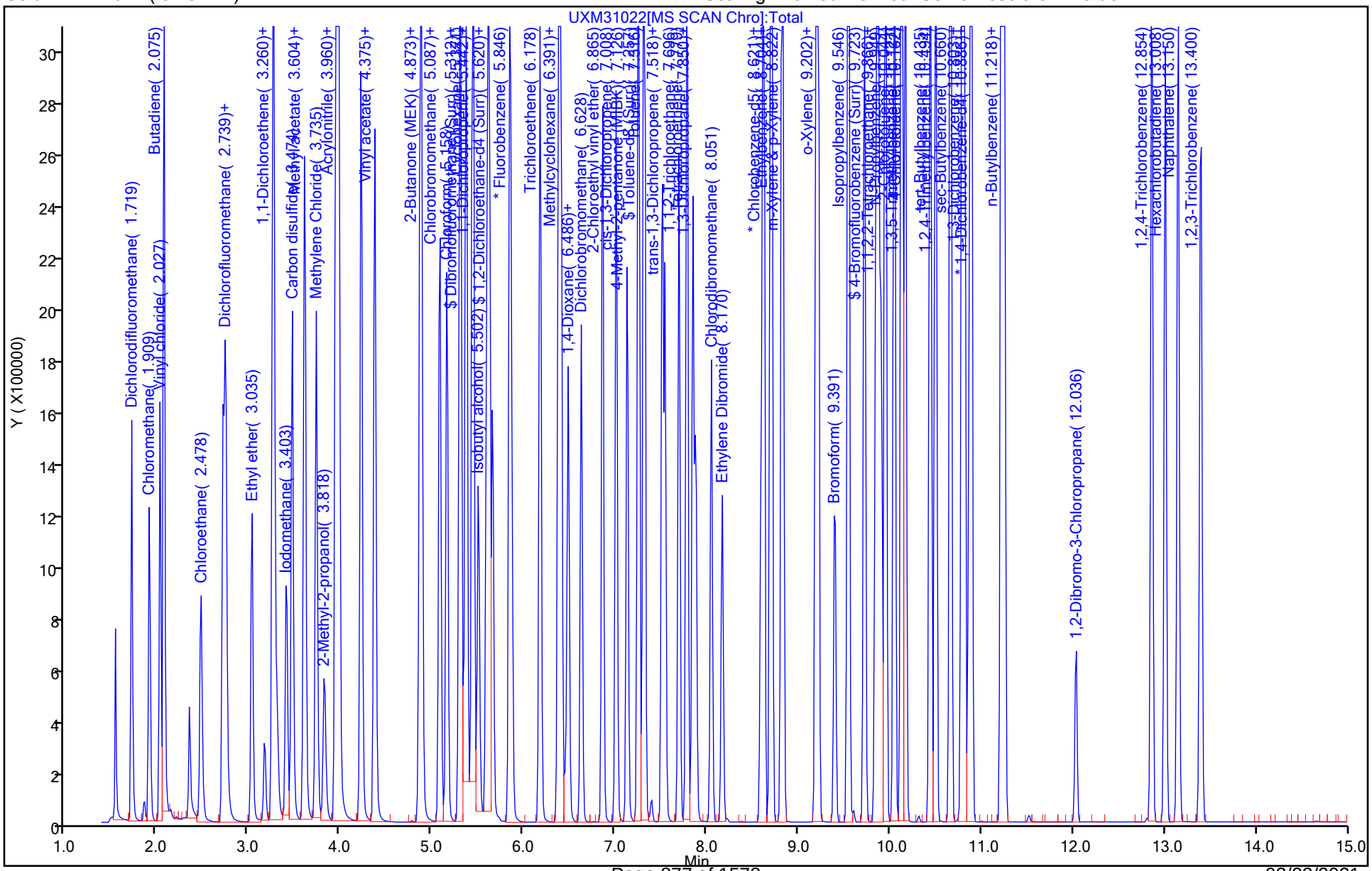
Report Date: 08-Sep-2020 15:52:36 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D

Injection Date:	08-Sep-2020 12:22:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L7			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

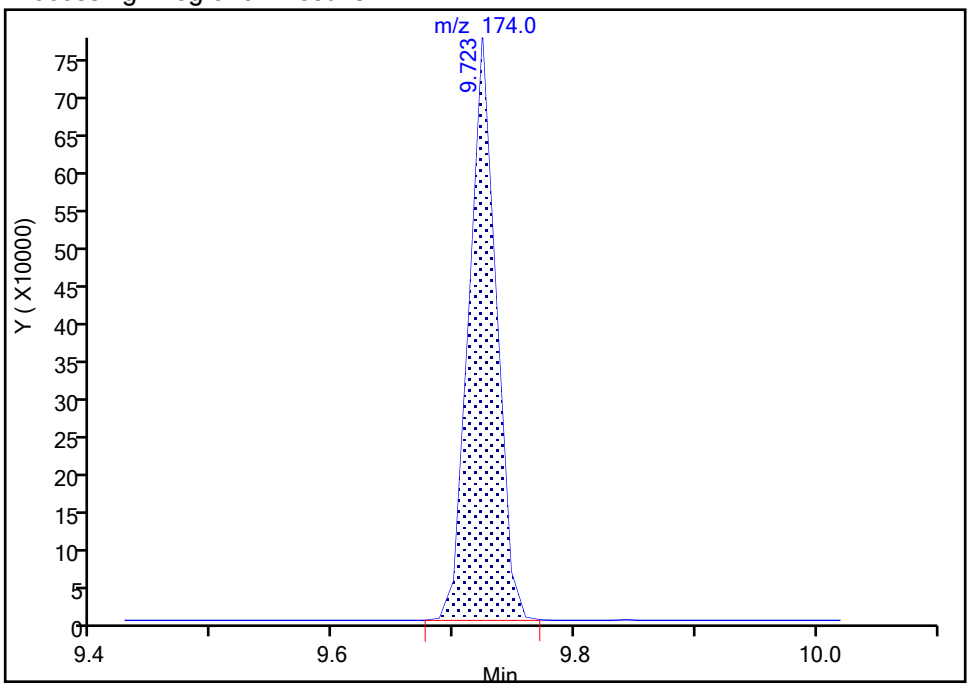
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Injection Date: 08-Sep-2020 12:22:30 Instrument ID: A3UX16
Lims ID: std8260 L7
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 2

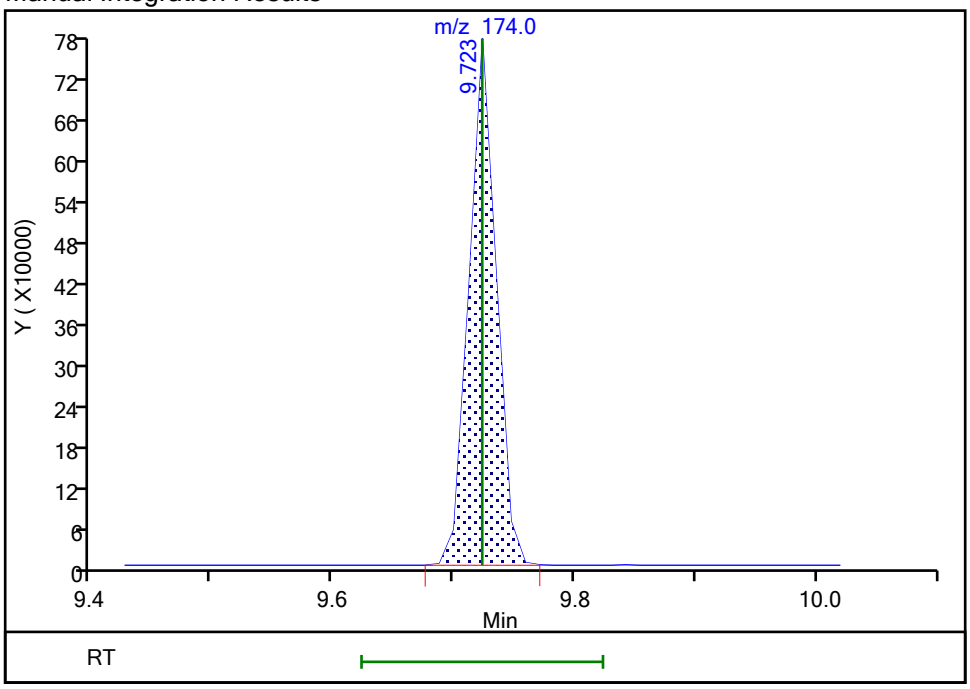
Processing Integration Results

RT: 9.72
Area: 1209500
Amount: 80.255826
Amount Units: ug/l



Manual Integration Results

RT: 9.72
Area: 1209500
Amount: 80.255826
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:46:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

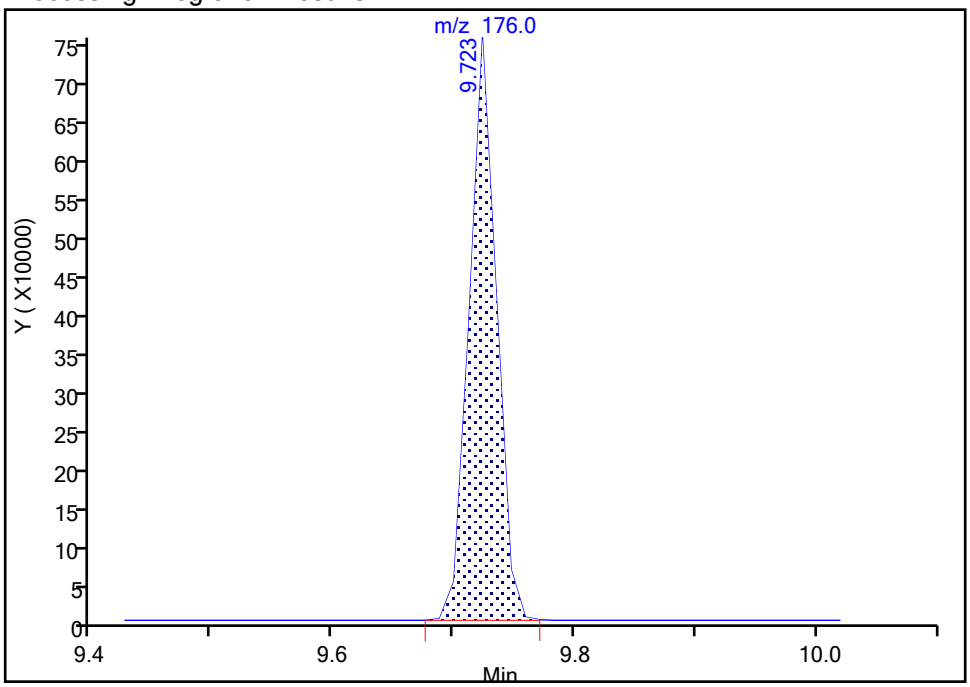
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Injection Date: 08-Sep-2020 12:22:30 Instrument ID: A3UX16
Lims ID: std8260 L7
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 3

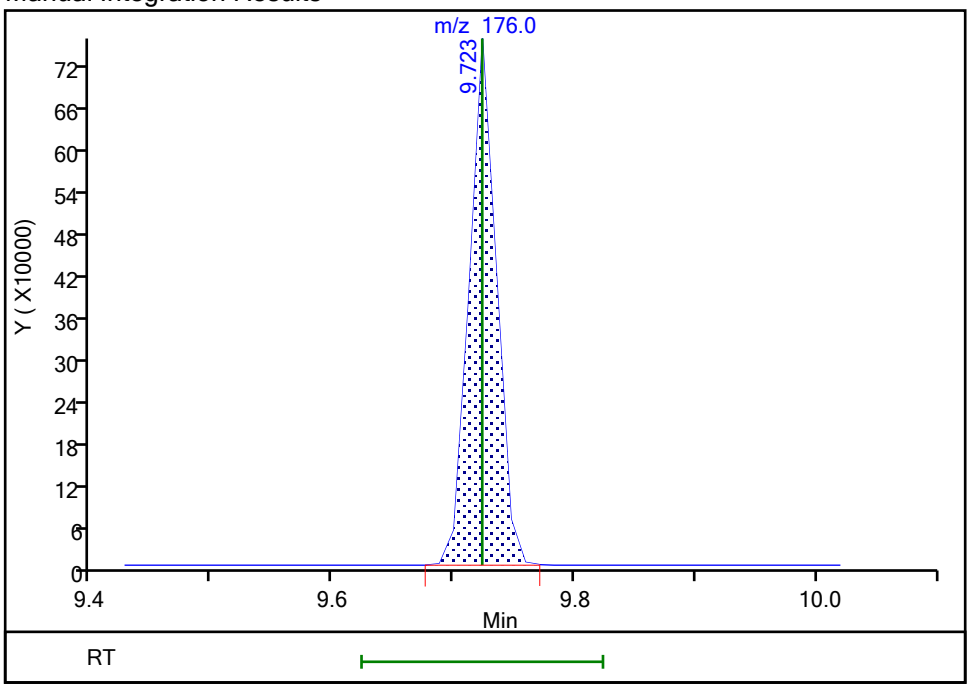
Processing Integration Results

RT: 9.72
Area: 1177336
Amount: 80.255826
Amount Units: ug/l



Manual Integration Results

RT: 9.72
Area: 1177336
Amount: 80.255826
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:46:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

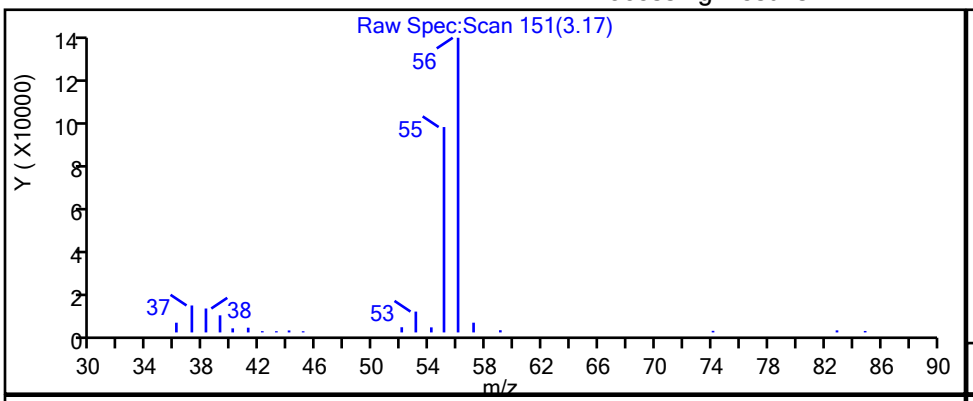
User Disabled Compound Report

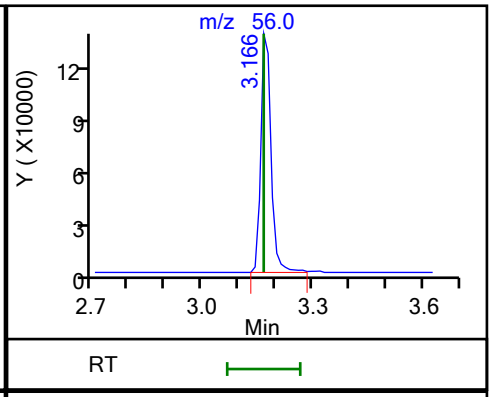
Eurofins TestAmerica, Canton

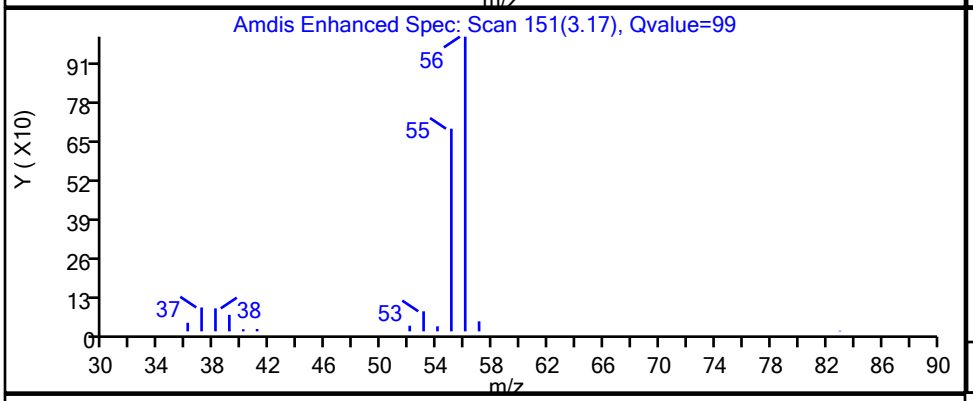
Data File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D				
Injection Date:	08-Sep-2020 12:22:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L7				
Client ID:					
Operator ID:	001765	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

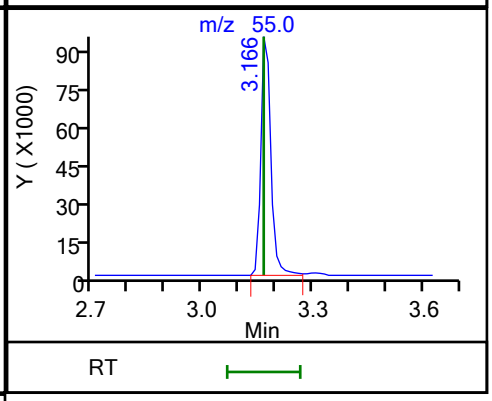
18 Acrolein, CAS: 107-02-8

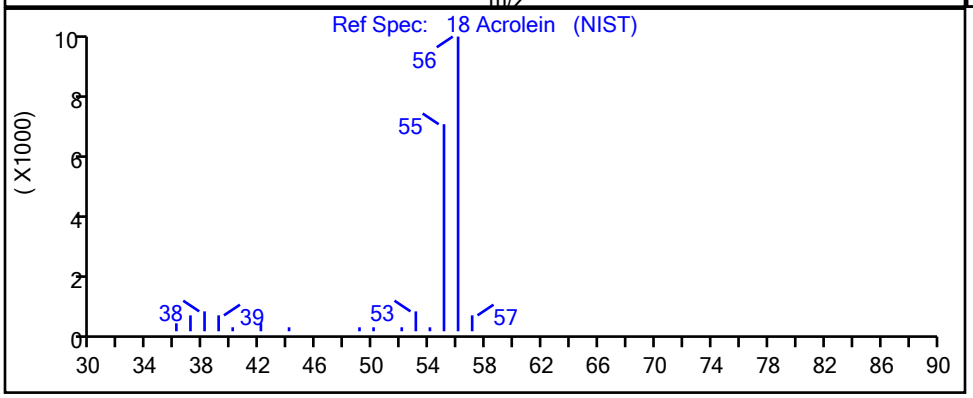
Processing Results











RT	Mass	Response	Amount
3.17	56.00	267337	433.6045
3.17	55.00	182762	

Reviewer: bosworthh, 08-Sep-2020 15:42:52

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

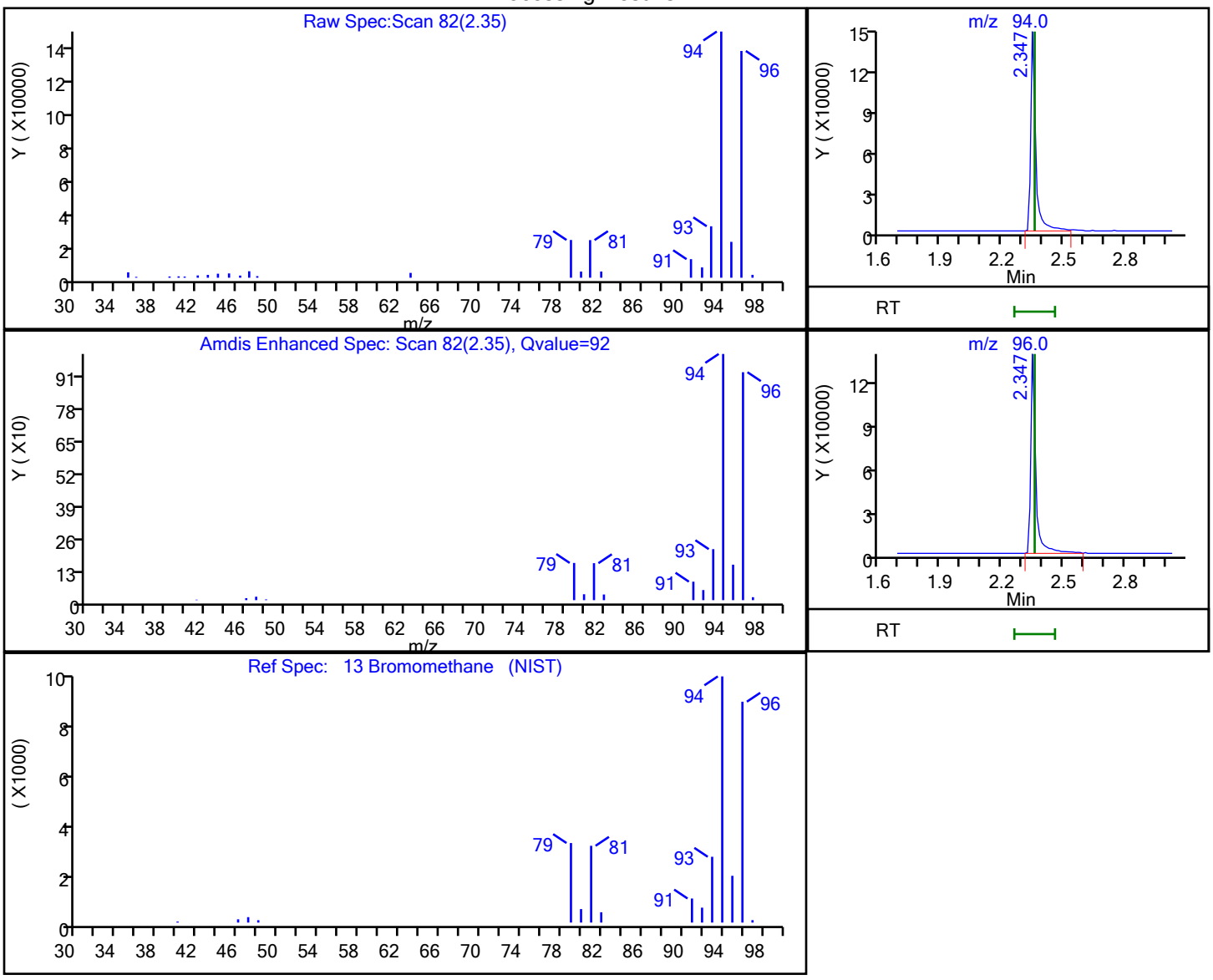
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Injection Date: 08-Sep-2020 12:22:30 Instrument ID: A3UX16
Lims ID: std8260 L7
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

13 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.35	94.00	255095	51.501538
2.35	96.00	236190	

Reviewer: bosworthh, 08-Sep-2020 13:24:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

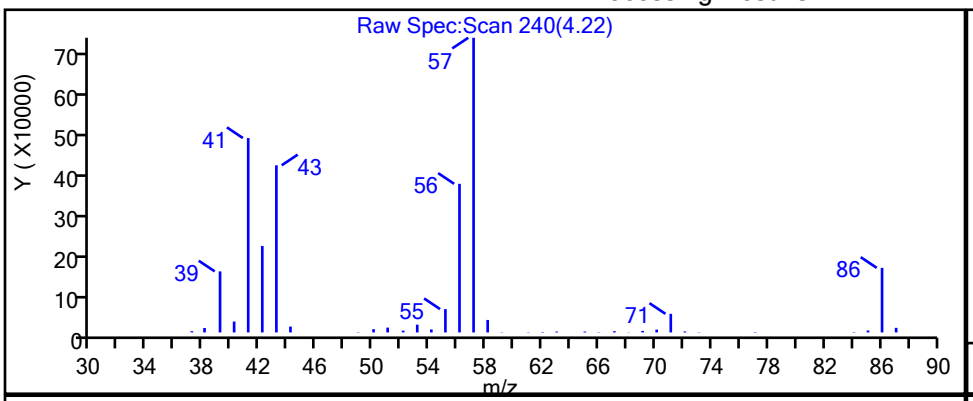
User Disabled Compound Report

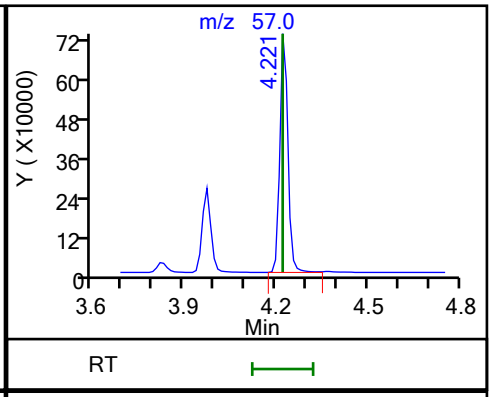
Eurofins TestAmerica, Canton

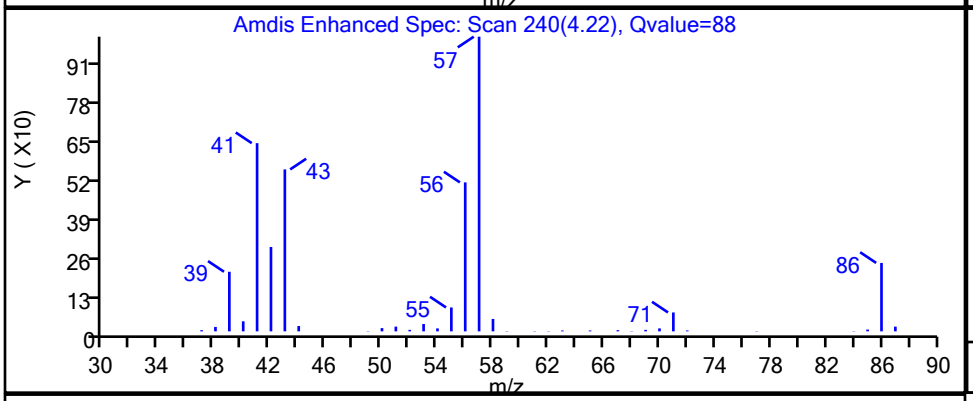
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Injection Date: 08-Sep-2020 12:22:30 Instrument ID: A3UX16
Lims ID: std8260 L7
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

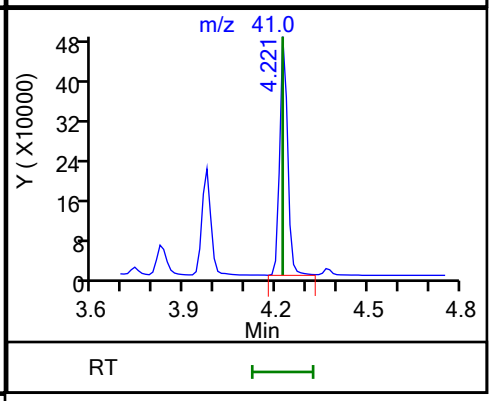
33 Hexane, CAS: 110-54-3

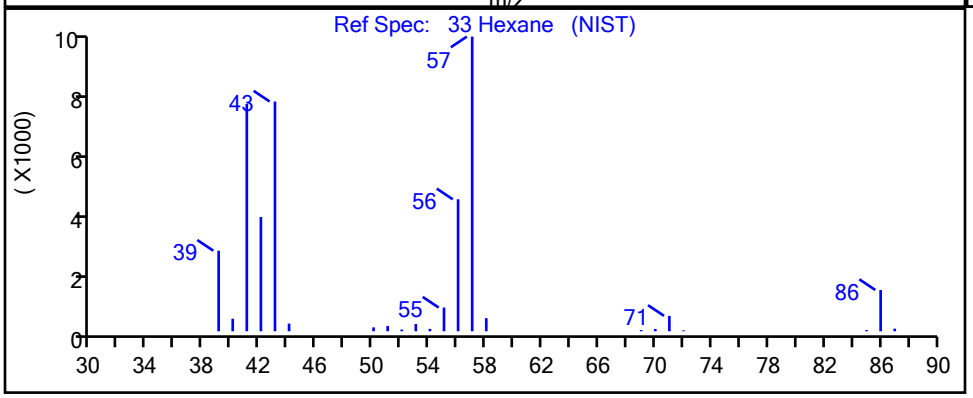
Processing Results











RT	Mass	Response	Amount
4.22	57.00	1355714	87.972259
4.22	41.00	878770	

Reviewer: bosworthh, 08-Sep-2020 15:23:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

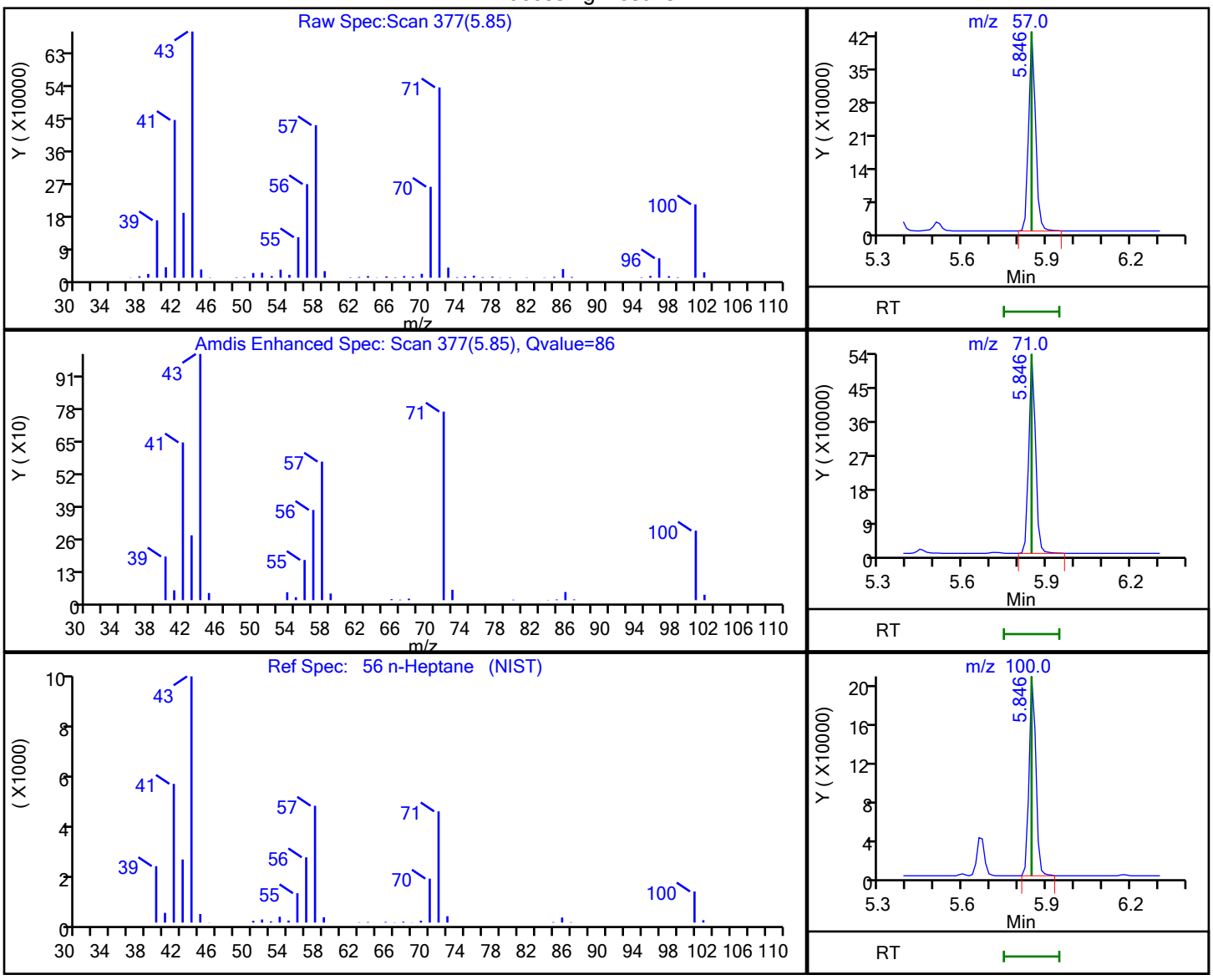
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31022.D
Injection Date: 08-Sep-2020 12:22:30 Instrument ID: A3UX16
Lims ID: std8260 L7
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

56 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
5.85	57.00	731209	87.870102
5.85	71.00	889376	
5.85	100.00	346803	

Reviewer: bosworthh, 08-Sep-2020 15:26:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D
Lims ID: std8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Sep-2020 12:47:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-010
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:52:44 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 13:29:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	986335	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	763435	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	92	445572	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	663483	60.0	61.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.596	0.001	97	688950	60.0	59.2	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	2583965	60.0	63.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	905980	60.0	61.1	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	745131	60.0	61.2	
10 Chloromethane	50	1.909	1.908	0.001	99	871361	60.0	56.0	
11 Vinyl chloride	62	2.027	2.027	0.000	98	1012197	60.0	60.7	
12 Butadiene	54	2.075	2.074	0.001	97	914827	60.0	62.2	
13 Bromomethane	94		2.359				ND	ND	U
14 Chloroethane	64	2.478	2.490	-0.012	99	548317	60.0	61.7	
15 Dichlorofluoromethane	67	2.715	2.715	0.000	98	1137799	60.0	60.2	
16 Trichlorofluoromethane	101	2.750	2.750	0.000	99	1052482	60.0	63.0	
17 Ethyl ether	59	3.035	3.035	0.000	87	482766	60.0	61.4	
18 Acrolein	56	3.166	3.165	0.001	100	182892	300.0	310.9	
19 1,1-Dichloroethene	96	3.260	3.260	0.000	97	613475	60.0	60.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	90	501383	60.0	63.0	
21 Acetone	58	3.308	3.308	0.000	100	93482	120.0	106.2	
23 Iodomethane	142	3.415	3.414	0.001	97	937946	60.0	60.1	
24 Carbon disulfide	76	3.474	3.474	0.000	99	1937057	60.0	59.4	
27 Methyl acetate	43	3.592	3.604	-0.012	96	723056	120.0	118.4	
26 3-Chloro-1-propene	41	3.616	3.616	0.000	86	804942	60.0	60.7	
28 Methylene Chloride	84	3.735	3.735	0.000	88	671839	60.0	56.0	
29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	452953	600.0	582.1	
30 Acrylonitrile	53	3.948	3.948	0.000	99	2146830	600.0	594.6	
31 Methyl tert-butyl ether	73	3.972	3.972	0.000	94	1791186	60.0	64.1	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	95	717027	60.0	59.9	
33 Hexane	57	4.221	4.221	0.000	89	812220	60.0	62.2	
35 Vinyl acetate	43	4.363	4.363	0.000	97	948886	60.0	59.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	1140699	60.0	61.7	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	97	137692	120.0	115.7	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	80	776002	60.0	60.8	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	89	1006523	60.0	63.4	
45 Chlorobromomethane	128	5.087	5.087	0.000	86	365325	60.0	60.6	
46 Tetrahydrofuran	42	5.087	5.087	0.000	82	278245	120.0	120.0	
47 Chloroform	83	5.158	5.158	0.000	93	1148977	60.0	60.2	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	1049551	60.0	62.3	
49 Cyclohexane	56	5.371	5.371	0.000	86	995055	60.0	63.1	
51 Carbon tetrachloride	117	5.442	5.442	0.000	91	946104	60.0	63.2	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	96	958880	60.0	64.1	
52 Isobutyl alcohol	41	5.502	5.502	0.000	95	341332	1500.0	1411.0	
54 Benzene	78	5.620	5.620	0.000	95	2804292	60.0	61.9	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	835597	60.0	60.8	
56 n-Heptane	57	5.846	5.845	0.001	90	449823	60.0	58.1	
58 Trichloroethene	130	6.178	6.178	0.000	94	825111	60.0	61.3	
60 Methylcyclohexane	83	6.379	6.391	-0.012	88	1145090	60.0	61.7	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	94	645329	60.0	62.7	
64 1,4-Dioxane	88	6.462	6.462	0.000	87	147449	1200.0	1220.0	
63 Dibromomethane	93	6.486	6.486	0.000	92	396385	60.0	61.1	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	860357	60.0	63.0	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	92	815405	120.0	128.2	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	1094811	60.0	65.3	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	93	851990	120.0	123.0	
70 Toluene	91	7.316	7.316	0.000	99	3011770	60.0	62.9	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	97	996267	60.0	66.8	
72 Ethyl methacrylate	69	7.541	7.541	0.000	86	724838	60.0	64.8	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	90	580728	60.0	63.5	
75 Tetrachloroethene	164	7.779	7.778	0.000	97	690225	60.0	64.3	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	86	1027994	60.0	65.0	
76 2-Hexanone	43	7.873	7.873	0.000	94	577473	120.0	121.3	
78 Chlorodibromomethane	129	8.051	8.051	0.000	89	685086	60.0	67.3	
80 Ethylene Dibromide	107	8.170	8.170	0.000	99	607659	60.0	65.1	
82 Chlorobenzene	112	8.620	8.620	0.000	97	2024322	60.0	61.7	
84 Ethylbenzene	106	8.703	8.703	0.000	98	1123177	60.0	62.9	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	94	736691	60.0	67.8	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	1392681	60.0	63.5	
86 o-Xylene	106	9.190	9.201	-0.011	96	1350111	60.0	64.5	
87 Styrene	104	9.213	9.213	0.000	95	2260683	60.0	65.6	
88 Bromoform	173	9.391	9.403	-0.012	98	460205	60.0	66.3	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	3456206	60.0	64.7	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	678721	60.0	59.7	
93 Bromobenzene	156	9.866	9.865	0.001	89	901413	60.0	61.1	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	74	197195	60.0	60.7	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	83	237185	60.0	59.1	
96 N-Propylbenzene	120	9.949	9.949	0.001	98	1035010	60.0	62.2	
97 2-Chlorotoluene	126	10.043	10.043	0.000	98	866639	60.0	61.8	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	95	2849609	60.0	63.3	
100 4-Chlorotoluene	126	10.162	10.174	-0.012	96	895912	60.0	61.8	
102 tert-Butylbenzene	119	10.435	10.447	-0.012	91	2557650	60.0	62.0	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	2854633	60.0	64.4	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	3729613	60.0	63.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.790	0.001	98	1739274	60.0	61.5	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	3319699	60.0	64.9	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	1727570	60.0	60.5	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	2805692	60.0	64.5	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	1599122	60.0	61.1	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	93	160845	60.0	62.3	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	975744	60.0	65.4	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	96	486539	60.0	64.2	
117 Naphthalene	128	13.150	13.150	0.000	96	2137279	60.0	64.0	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	95	825636	60.0	61.8	
S 134 Trihalomethanes, Total	1				0		240.0	256.8	
S 158 Total BTEX	1				0		300.0	315.8	
S 131 1,2-Dichloroethene, Total	96				0			120.7	
S 132 1,3-Dichloropropene, Total	75				0			132.1	
S 133 Xylenes, Total	106				0		120.0	128.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vmrgas_00353	Amount Added: 48.00	Units: uL
vmarolistdw_00359	Amount Added: 48.00	Units: uL
vmrprimw_00402	Amount Added: 48.00	Units: uL
vm50ss_00417	Amount Added: 48.00	Units: uL
vm50is_stk_a_00007	Amount Added: 2.00	Units: uL

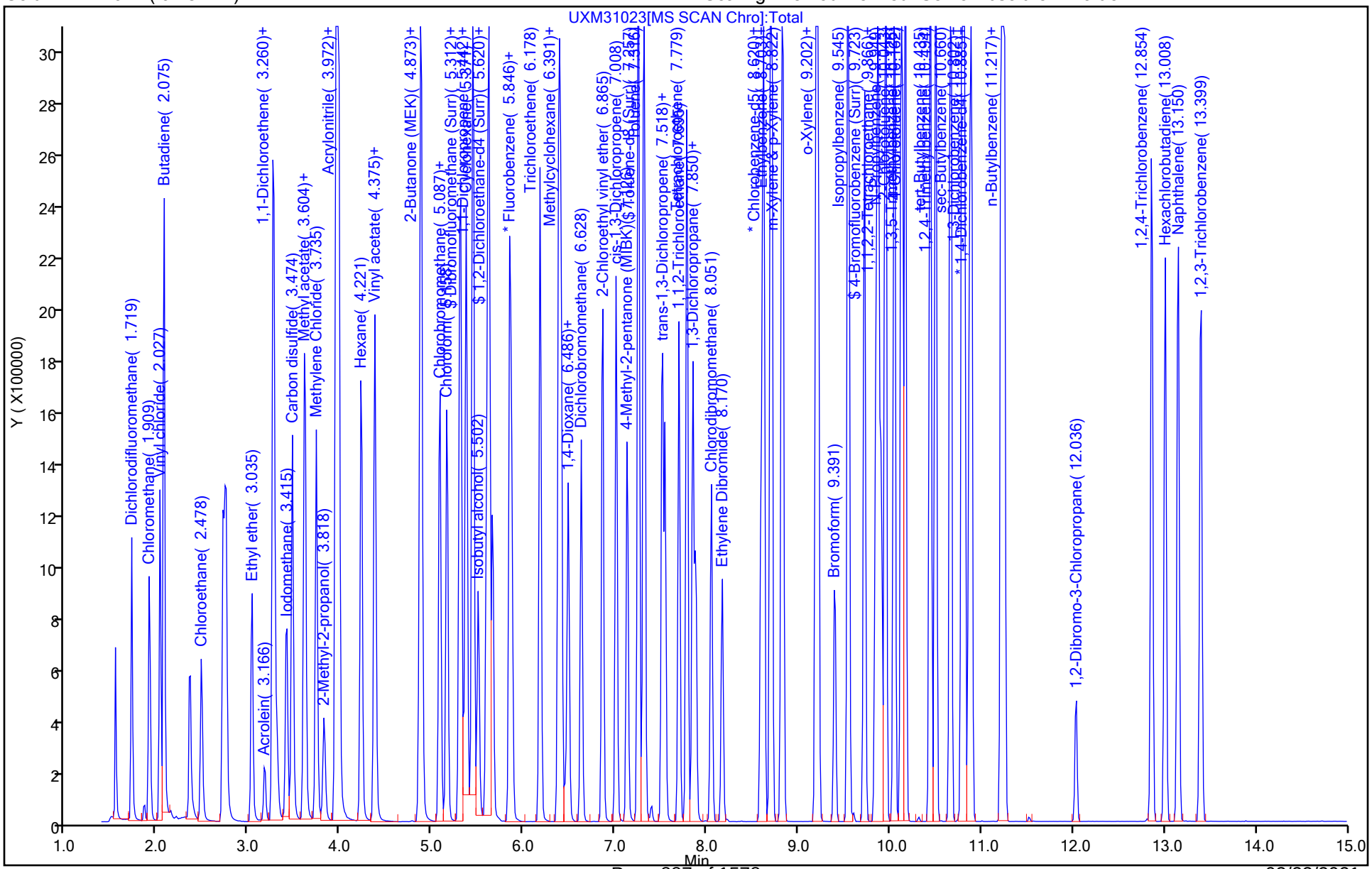
Report Date: 08-Sep-2020 15:52:46 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D

Injection Date:	08-Sep-2020 12:47:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L6			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton

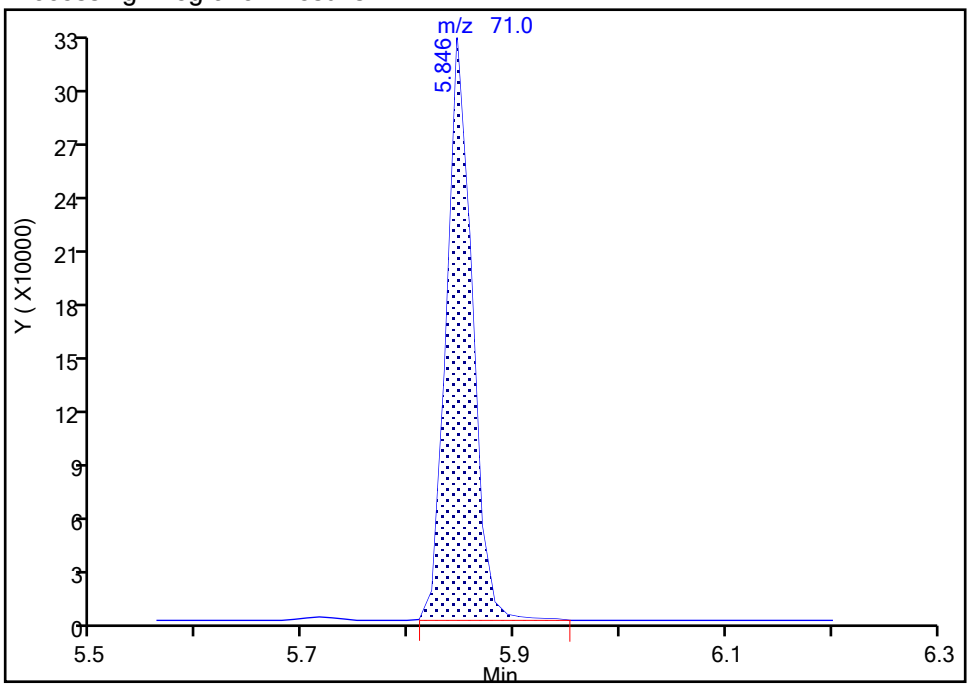
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D
Injection Date: 08-Sep-2020 12:47:30 Instrument ID: A3UX16
Lims ID: std8260 L6
Client ID:
Operator ID: 001765 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

56 n-Heptane, CAS: 142-82-5

Signal: 2

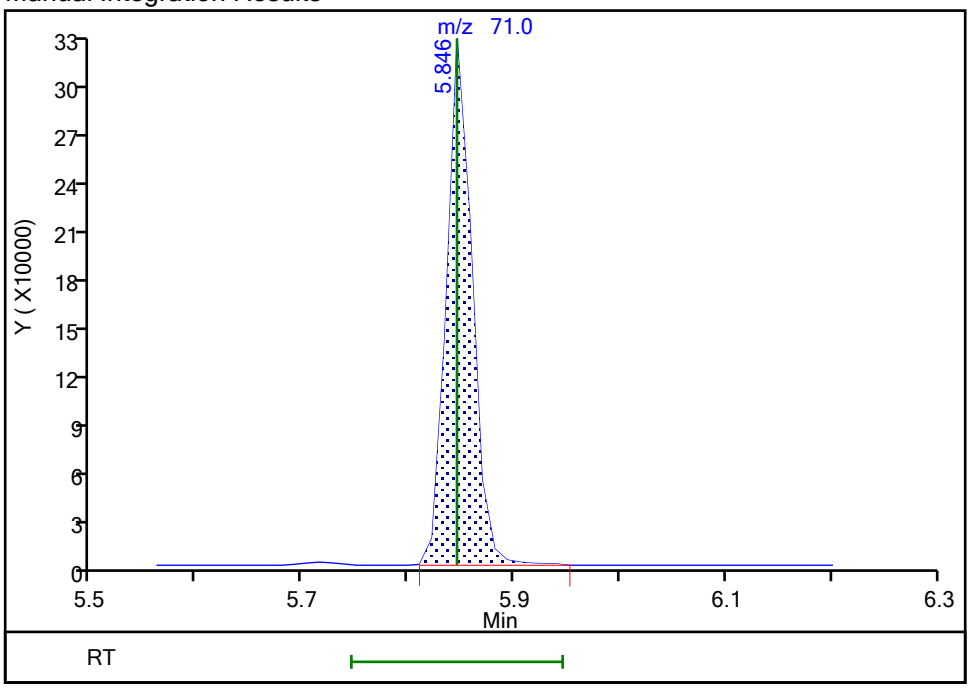
Processing Integration Results

RT: 5.85
Area: 542991
Amount: 58.057004
Amount Units: ug/l



Manual Integration Results

RT: 5.85
Area: 542991
Amount: 58.057004
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:27:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

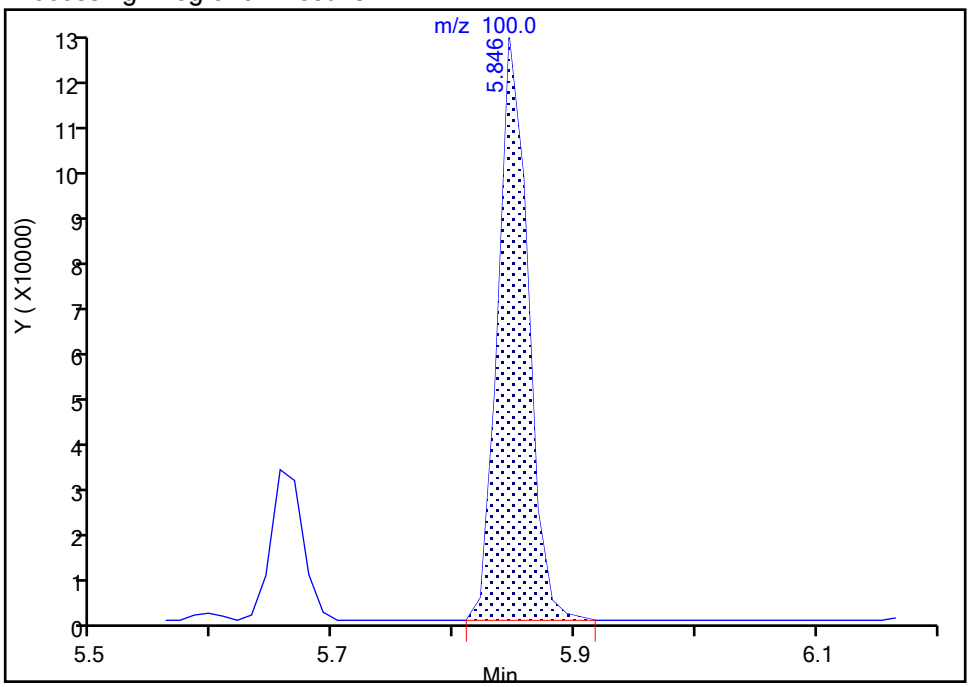
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D
Injection Date: 08-Sep-2020 12:47:30 Instrument ID: A3UX16
Lims ID: std8260 L6
Client ID:
Operator ID: 001765 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

56 n-Heptane, CAS: 142-82-5

Signal: 3

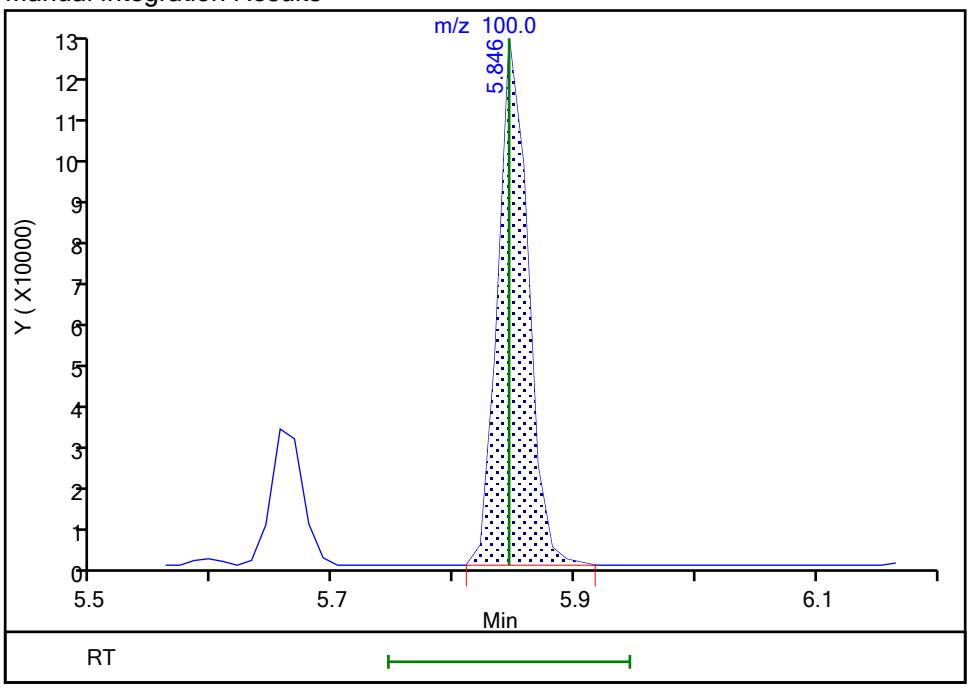
Processing Integration Results

RT: 5.85
Area: 209419
Amount: 58.057004
Amount Units: ug/l



Manual Integration Results

RT: 5.85
Area: 209419
Amount: 58.057004
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:27:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

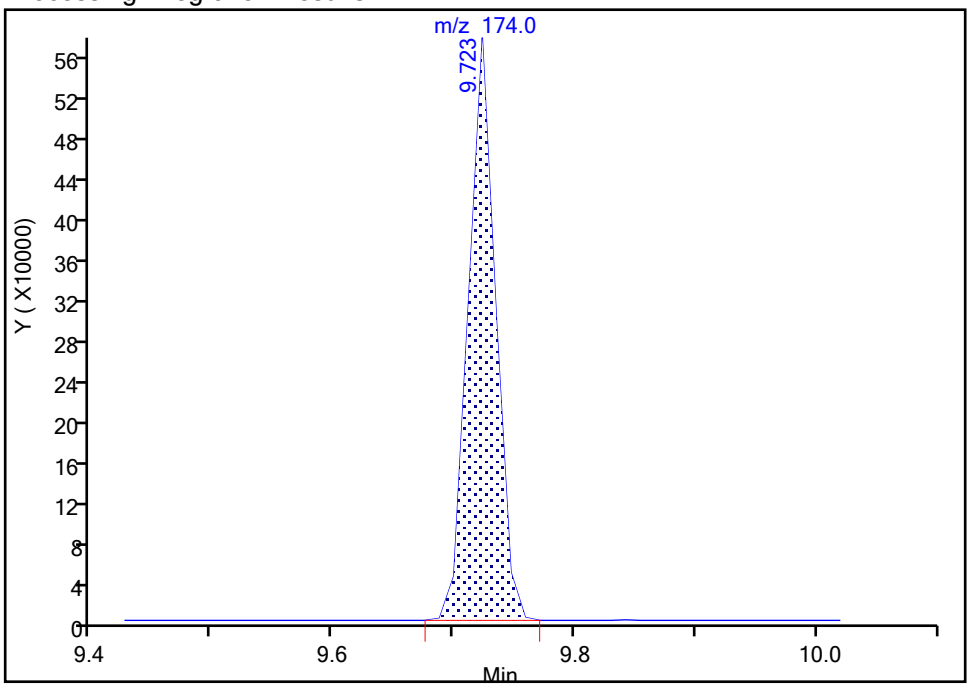
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D
Injection Date: 08-Sep-2020 12:47:30 Instrument ID: A3UX16
Lims ID: std8260 L6
Client ID:
Operator ID: 001765 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 2

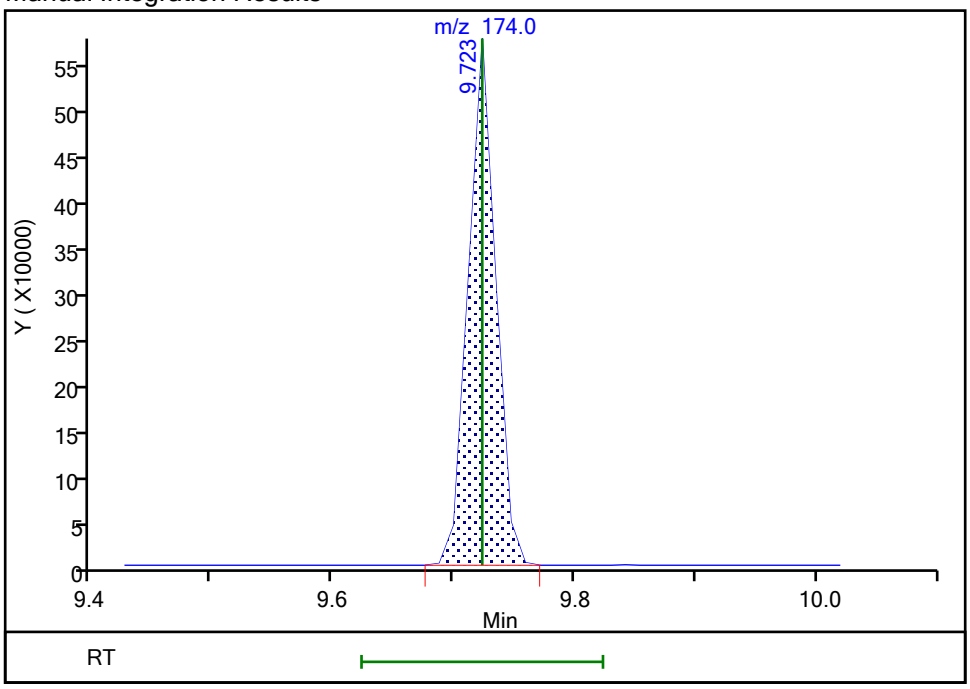
Processing Integration Results

RT: 9.72
Area: 901863
Amount: 62.462579
Amount Units: ug/l



Manual Integration Results

RT: 9.72
Area: 901863
Amount: 61.149722
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:46:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

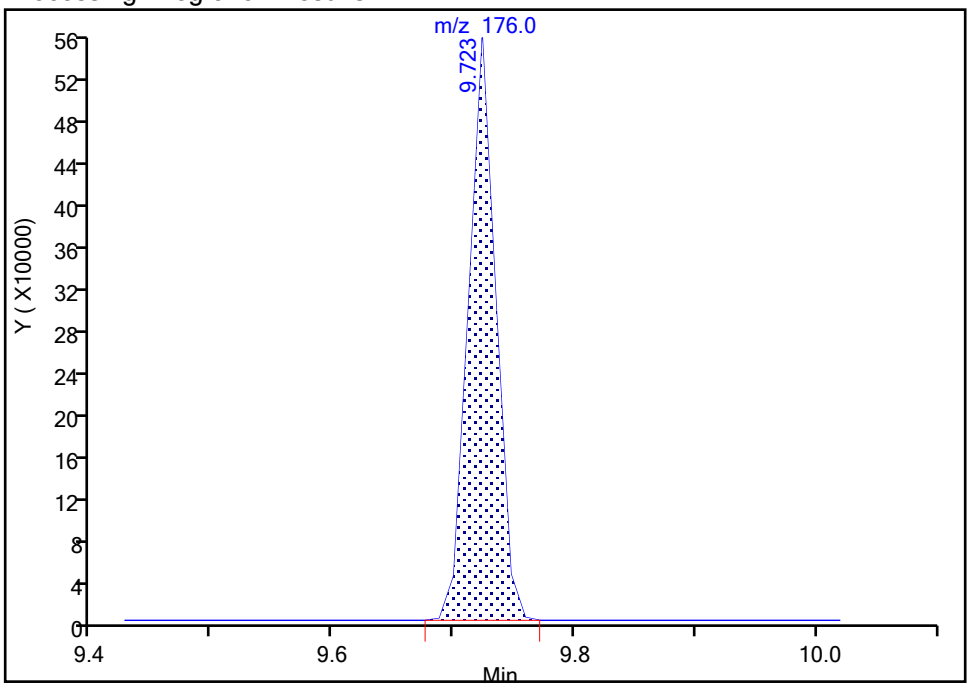
Data File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D				
Injection Date:	08-Sep-2020 12:47:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L6				
Client ID:					
Operator ID:	001765	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 3

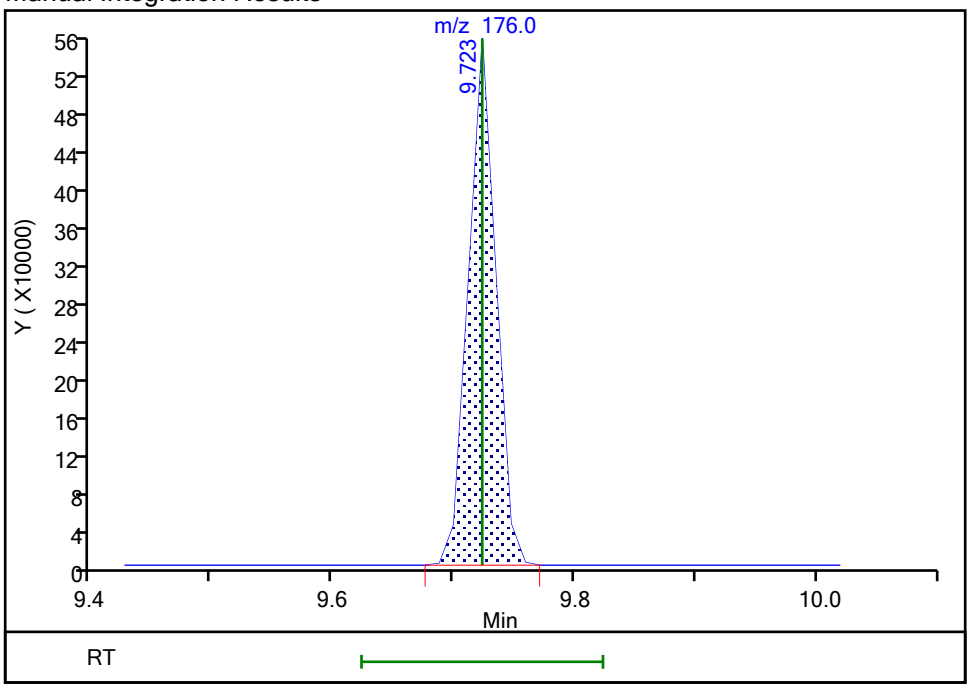
Processing Integration Results

RT: 9.72
Area: 880380
Amount: 62.462579
Amount Units: ug/l



Manual Integration Results

RT: 9.72
Area: 880380
Amount: 61.149722
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:46:32

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

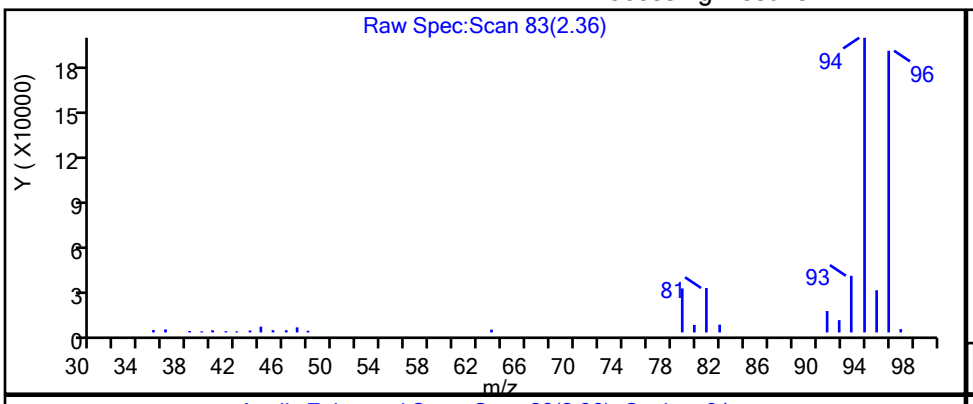
User Disabled Compound Report

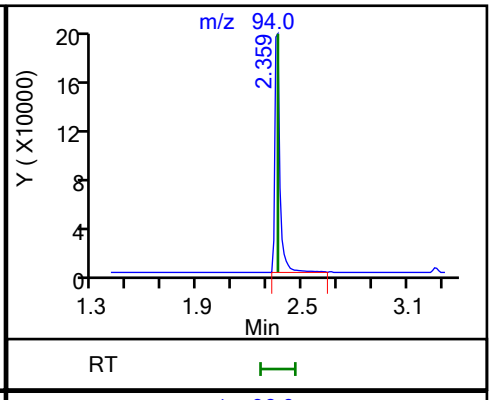
Eurofins TestAmerica, Canton

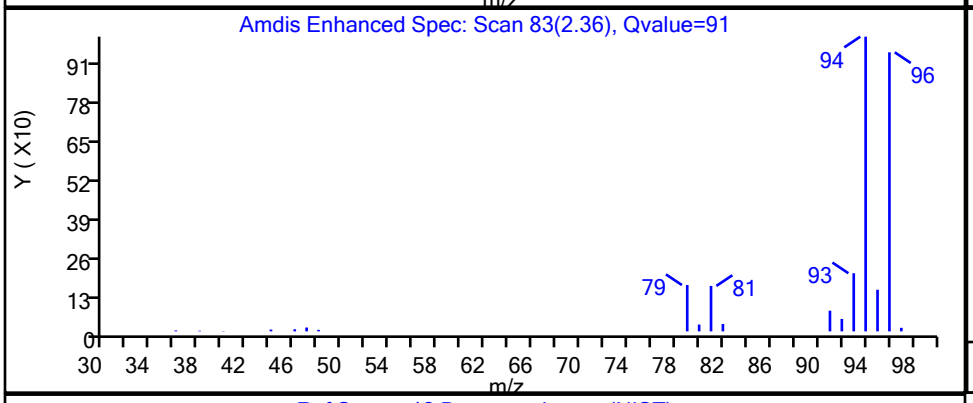
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31023.D
Injection Date: 08-Sep-2020 12:47:30 Instrument ID: A3UX16
Lims ID: std8260 L6
Client ID:
Operator ID: 001765 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

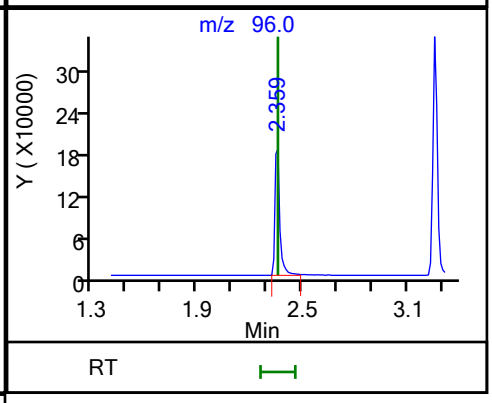
13 Bromomethane, CAS: 74-83-9

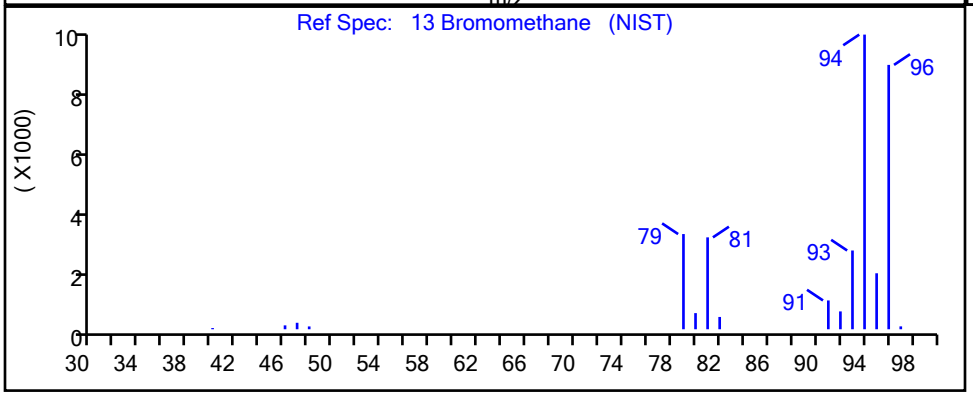
Processing Results











RT	Mass	Response	Amount
2.36	94.00	391184	45.926865
2.36	96.00	361405	

Reviewer: bosworthh, 08-Sep-2020 13:32:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31024.D
Lims ID: std8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Sep-2020 13:12:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-011
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:52:54 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 13:32:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	985207	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	82	768658	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	92	434281	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	451079	40.0	42.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.596	0.000	98	475834	40.0	40.9	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	1756542	40.0	42.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	614486	40.0	41.2	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	512634	40.0	42.1	
10 Chloromethane	50	1.908	1.908	0.000	99	590076	40.0	38.0	
11 Vinyl chloride	62	2.027	2.027	0.000	98	679879	40.0	40.8	
12 Butadiene	54	2.074	2.074	0.000	97	601757	40.0	41.0	
13 Bromomethane	94	2.359	2.359	0.000	91	420133	40.0	39.3	
14 Chloroethane	64	2.490	2.490	0.000	99	362824	40.0	40.9	
15 Dichlorofluoromethane	67	2.715	2.715	0.000	97	763828	40.0	40.5	
16 Trichlorofluoromethane	101	2.750	2.750	0.000	98	707684	40.0	42.4	
17 Ethyl ether	59	3.035	3.035	0.000	87	336091	40.0	42.8	
18 Acrolein	56	3.165	3.165	0.000	99	133174	200.0	226.6	
19 1,1-Dichloroethene	96	3.260	3.260	0.000	97	412233	40.0	40.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	91	344047	40.0	43.3	
21 Acetone	58	3.308	3.308	0.000	100	68698	80.0	78.1	
23 Iodomethane	142	3.414	3.414	0.000	97	607259	40.0	39.0	
24 Carbon disulfide	76	3.474	3.474	0.000	99	1308981	40.0	40.2	
27 Methyl acetate	43	3.604	3.604	0.000	96	532525	80.0	87.3	
26 3-Chloro-1-propene	41	3.616	3.616	0.000	86	543714	40.0	41.0	
28 Methylene Chloride	84	3.735	3.735	0.000	88	459897	40.0	38.4	
29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	341990	400.0	440.0	
30 Acrylonitrile	53	3.948	3.948	0.000	99	1561999	400.0	433.1	
31 Methyl tert-butyl ether	73	3.972	3.972	0.000	94	1247519	40.0	44.7	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	95	481658	40.0	40.3	
33 Hexane	57	4.221	4.221	0.000	89	583618	40.0	44.7	
35 Vinyl acetate	43	4.363	4.363	0.000	97	663154	40.0	41.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	764973	40.0	41.4	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	98	98627	80.0	83.3	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	79	526609	40.0	41.3	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	88	673786	40.0	42.5	
45 Chlorobromomethane	128	5.087	5.087	0.000	88	249202	40.0	41.4	
46 Tetrahydrofuran	42	5.087	5.087	0.000	83	206722	80.0	89.3	
47 Chloroform	83	5.158	5.158	0.000	93	780869	40.0	40.9	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	704006	40.0	41.8	
49 Cyclohexane	56	5.371	5.371	0.000	85	675623	40.0	42.9	
51 Carbon tetrachloride	117	5.442	5.442	0.000	91	631395	40.0	42.2	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	638498	40.0	42.7	
52 Isobutyl alcohol	41	5.502	5.502	0.000	93	254808	1000.0	1056.3	
54 Benzene	78	5.620	5.620	0.000	96	1901286	40.0	42.0	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	574817	40.0	41.9	
56 n-Heptane	57	5.845	5.845	0.000	87	333099	40.0	42.1	
58 Trichloroethene	130	6.178	6.178	0.000	95	556593	40.0	41.4	
60 Methylcyclohexane	83	6.391	6.391	0.000	87	786565	40.0	42.4	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	95	440298	40.0	42.8	
64 1,4-Dioxane	88	6.462	6.462	0.000	87	109037	800.0	903.2	
63 Dibromomethane	93	6.486	6.486	0.000	90	271437	40.0	41.9	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	577147	40.0	42.3	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	93	567444	80.0	89.3	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	741413	40.0	44.3	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	628003	80.0	90.8	
70 Toluene	91	7.316	7.316	0.000	99	2039743	40.0	42.3	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	96	673884	40.0	44.9	
72 Ethyl methacrylate	69	7.541	7.541	0.000	87	510420	40.0	45.3	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	90	400018	40.0	43.5	
75 Tetrachloroethene	164	7.778	7.778	0.000	97	458925	40.0	42.4	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	86	706289	40.0	44.3	
76 2-Hexanone	43	7.873	7.873	0.000	94	429724	80.0	89.7	
78 Chlorodibromomethane	129	8.051	8.051	0.000	90	457254	40.0	44.6	
80 Ethylene Dibromide	107	8.170	8.170	0.000	99	419853	40.0	44.6	
82 Chlorobenzene	112	8.620	8.620	0.000	97	1361605	40.0	41.2	
84 Ethylbenzene	106	8.703	8.703	0.000	97	756865	40.0	42.1	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	97	488684	40.0	44.7	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	941488	40.0	42.7	
86 o-Xylene	106	9.201	9.201	0.000	95	891801	40.0	42.3	
87 Styrene	104	9.213	9.213	0.000	95	1513984	40.0	43.6	
88 Bromoform	173	9.403	9.403	0.000	98	311415	40.0	44.6	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	2308401	40.0	42.9	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	478558	40.0	43.2	
93 Bromobenzene	156	9.865	9.865	0.000	90	604593	40.0	42.0	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	76	136003	40.0	42.9	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	82	167810	40.0	42.9	
96 N-Propylbenzene	120	9.949	9.949	0.000	98	692257	40.0	42.7	
97 2-Chlorotoluene	126	10.043	10.043	0.000	98	577725	40.0	42.3	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	94	1892509	40.0	43.1	
100 4-Chlorotoluene	126	10.174	10.174	0.000	95	607272	40.0	43.0	
102 tert-Butylbenzene	119	10.447	10.447	0.000	90	1704932	40.0	42.4	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	1876870	40.0	43.4	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	2482909	40.0	43.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.790	10.790	0.000	98	1147861	40.0	41.6	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	2177630	40.0	43.7	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	95	1147309	40.0	41.2	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	1851941	40.0	43.7	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	1074224	40.0	42.1	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	92	112988	40.0	44.9	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	633734	40.0	43.6	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	96	323865	40.0	43.8	
117 Naphthalene	128	13.150	13.150	0.000	96	1472308	40.0	45.2	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	95	566895	40.0	43.5	
S 134 Trihalomethanes, Total	1				0		160.0	172.4	
S 158 Total BTEX	1				0		200.0	211.4	
S 131 1,2-Dichloroethene, Total	96				0			81.6	
S 132 1,3-Dichloropropene, Total	75				0			89.1	
S 133 Xylenes, Total	106				0		80.0	85.0	

Reagents:

vmrgas_00353	Amount Added: 32.00	Units: uL
vmarolistdw_00359	Amount Added: 32.00	Units: uL
vmrprimw_00402	Amount Added: 32.00	Units: uL
vm50ss_00417	Amount Added: 32.00	Units: uL
vm50is_stk_a_00007	Amount Added: 2.00	Units: uL

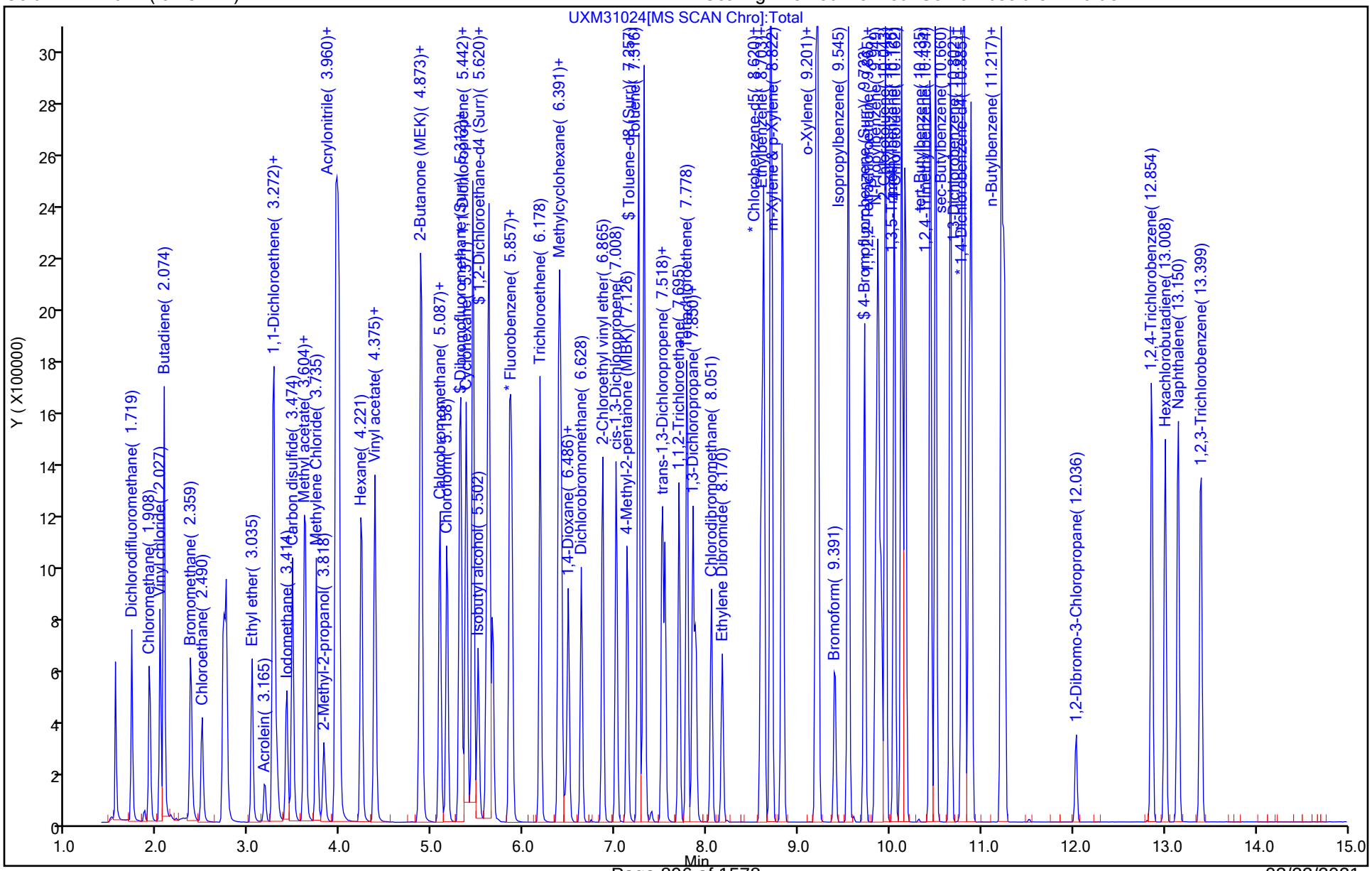
Report Date: 08-Sep-2020 15:52:56 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31024.D

Injection Date:	08-Sep-2020 13:12:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L5			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31025.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 08-Sep-2020 13:36:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-012
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:53:02 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 13:55:01

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	955305	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	743399	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	412806	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	205047	20.0	19.7	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.597	0.000	98	211750	20.0	18.8	
$	6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	798835	20.0	20.0	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	96	282170	20.0	19.6	
	9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	227765	20.0	19.3	
	10 Chloromethane	50	1.909	1.909	0.000	99	274711	20.0	18.2	
	11 Vinyl chloride	62	2.027	2.027	0.000	98	313862	20.0	19.4	
	12 Butadiene	54	2.075	2.075	0.000	98	276064	20.0	19.4	
	13 Bromomethane	94	2.371	2.371	0.000	91	186631	20.0	18.0	
	14 Chloroethane	64	2.490	2.490	0.000	99	158483	20.0	18.4	
	15 Dichlorofluoromethane	67	2.727	2.727	0.000	97	351184	20.0	19.2	
	16 Trichlorofluoromethane	101	2.750	2.750	0.000	98	318731	20.0	19.7	
	17 Ethyl ether	59	3.035	3.035	0.000	87	150301	20.0	19.7	
	18 Acrolein	56	3.177	3.177	0.000	99	54891	100.0	96.3	
	19 1,1-Dichloroethene	96	3.260	3.260	0.000	98	191182	20.0	19.5	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	91	159259	20.0	20.6	
	21 Acetone	58	3.308	3.308	0.000	100	28725	40.0	33.7	
	23 Iodomethane	142	3.415	3.415	0.000	97	280739	20.0	18.6	
	24 Carbon disulfide	76	3.474	3.474	0.000	99	616385	20.0	19.5	
	27 Methyl acetate	43	3.604	3.604	0.000	95	219369	40.0	37.1	
	26 3-Chloro-1-propene	41	3.616	3.616	0.000	85	248783	20.0	19.4	
	28 Methylene Chloride	84	3.735	3.735	0.000	88	209370	20.0	18.0	
	29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	135048	200.0	179.2	
	30 Acrylonitrile	53	3.948	3.948	0.000	99	664569	200.0	190.0	
	31 Methyl tert-butyl ether	73	3.972	3.972	0.000	93	542453	20.0	20.0	
	32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	95	224002	20.0	19.3	
	33 Hexane	57	4.221	4.221	0.000	88	257886	20.0	20.4	
	35 Vinyl acetate	43	4.363	4.363	0.000	97	274666	20.0	17.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	351386	20.0	19.6	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	98	38988	40.0	34.6	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	79	243716	20.0	19.7	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	87	306107	20.0	19.9	
45 Chlorobromomethane	128	5.087	5.087	0.000	86	117007	20.0	20.0	
46 Tetrahydrofuran	42	5.087	5.087	0.000	84	85989	40.0	38.3	
47 Chloroform	83	5.158	5.158	0.000	93	363463	20.0	19.7	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	324837	20.0	19.9	
49 Cyclohexane	56	5.371	5.371	0.000	85	310680	20.0	20.4	
51 Carbon tetrachloride	117	5.442	5.442	0.000	91	284754	20.0	19.6	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	293279	20.0	20.2	
52 Isobutyl alcohol	41	5.502	5.502	0.000	92	100513	500.0	434.0	
54 Benzene	78	5.620	5.620	0.000	95	868256	20.0	19.8	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	260130	20.0	19.5	
56 n-Heptane	57	5.846	5.846	0.000	84	163268	20.0	19.4	
58 Trichloroethene	130	6.178	6.178	0.000	94	255094	20.0	19.6	
60 Methylcyclohexane	83	6.391	6.391	0.000	87	353700	20.0	19.7	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	95	200726	20.0	20.1	
64 1,4-Dioxane	88	6.462	6.462	0.000	89	42478	400.0	362.9	
63 Dibromomethane	93	6.486	6.486	0.000	91	123177	20.0	19.6	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	259213	20.0	19.6	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	93	239979	40.0	38.9	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	326122	20.0	20.1	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	256926	40.0	38.3	
70 Toluene	91	7.316	7.316	0.000	98	938059	20.0	20.1	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	96	292377	20.0	20.1	
72 Ethyl methacrylate	69	7.541	7.541	0.000	85	216473	20.0	19.9	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	89	180594	20.0	20.3	
75 Tetrachloroethene	164	7.778	7.778	0.000	97	206410	20.0	19.7	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	85	314262	20.0	20.4	
76 2-Hexanone	43	7.873	7.873	0.000	94	177407	40.0	38.3	
78 Chlorodibromomethane	129	8.051	8.051	0.000	89	200173	20.0	20.2	
80 Ethylene Dibromide	107	8.170	8.170	0.000	98	186444	20.0	20.5	
82 Chlorobenzene	112	8.620	8.620	0.000	97	639571	20.0	20.0	
84 Ethylbenzene	106	8.703	8.703	0.000	98	347713	20.0	20.0	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	95	217609	20.0	20.6	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	432592	20.0	20.3	
86 o-Xylene	106	9.190	9.190	0.000	97	416898	20.0	20.4	
87 Styrene	104	9.213	9.213	0.000	95	693212	20.0	20.6	
88 Bromoform	173	9.403	9.403	0.000	98	127319	20.0	18.8	
89 Isopropylbenzene	105	9.545	9.545	0.000	94	1079601	20.0	20.7	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	212748	20.0	20.2	
93 Bromobenzene	156	9.866	9.866	0.000	90	273875	20.0	20.0	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	75	58600	20.0	19.5	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	80	74238	20.0	20.0	
96 N-Propylbenzene	120	9.949	9.949	0.000	98	323520	20.0	21.0	
97 2-Chlorotoluene	126	10.043	10.043	0.000	98	267505	20.0	20.6	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	94	876543	20.0	21.0	
100 4-Chlorotoluene	126	10.162	10.162	0.000	96	278802	20.0	20.8	
102 tert-Butylbenzene	119	10.435	10.435	0.000	90	790282	20.0	20.7	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	874333	20.0	21.3	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	1148815	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.791	0.000	98	519642	20.0	19.8	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	1009090	20.0	21.3	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	519200	20.0	19.6	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	843589	20.0	20.9	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	484748	20.0	20.0	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	90	44593	20.0	18.7	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	277363	20.0	20.1	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	97	139998	20.0	19.9	
117 Naphthalene	128	13.150	13.150	0.000	96	611384	20.0	19.8	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	96	236399	20.0	19.1	
S 134 Trihalomethanes, Total	1				0		80.0	78.3	
S 158 Total BTEX	1				0		100.0	100.6	
S 133 Xylenes, Total	106				0		40.0	40.7	

Reagents:

vmrgas_00353	Amount Added: 16.00	Units: uL
vmarolistdw_00359	Amount Added: 16.00	Units: uL
vmrprimw_00402	Amount Added: 16.00	Units: uL
vm50ss_00417	Amount Added: 16.00	Units: uL
vm50is_stk_a_00007	Amount Added: 2.00	Units: uL

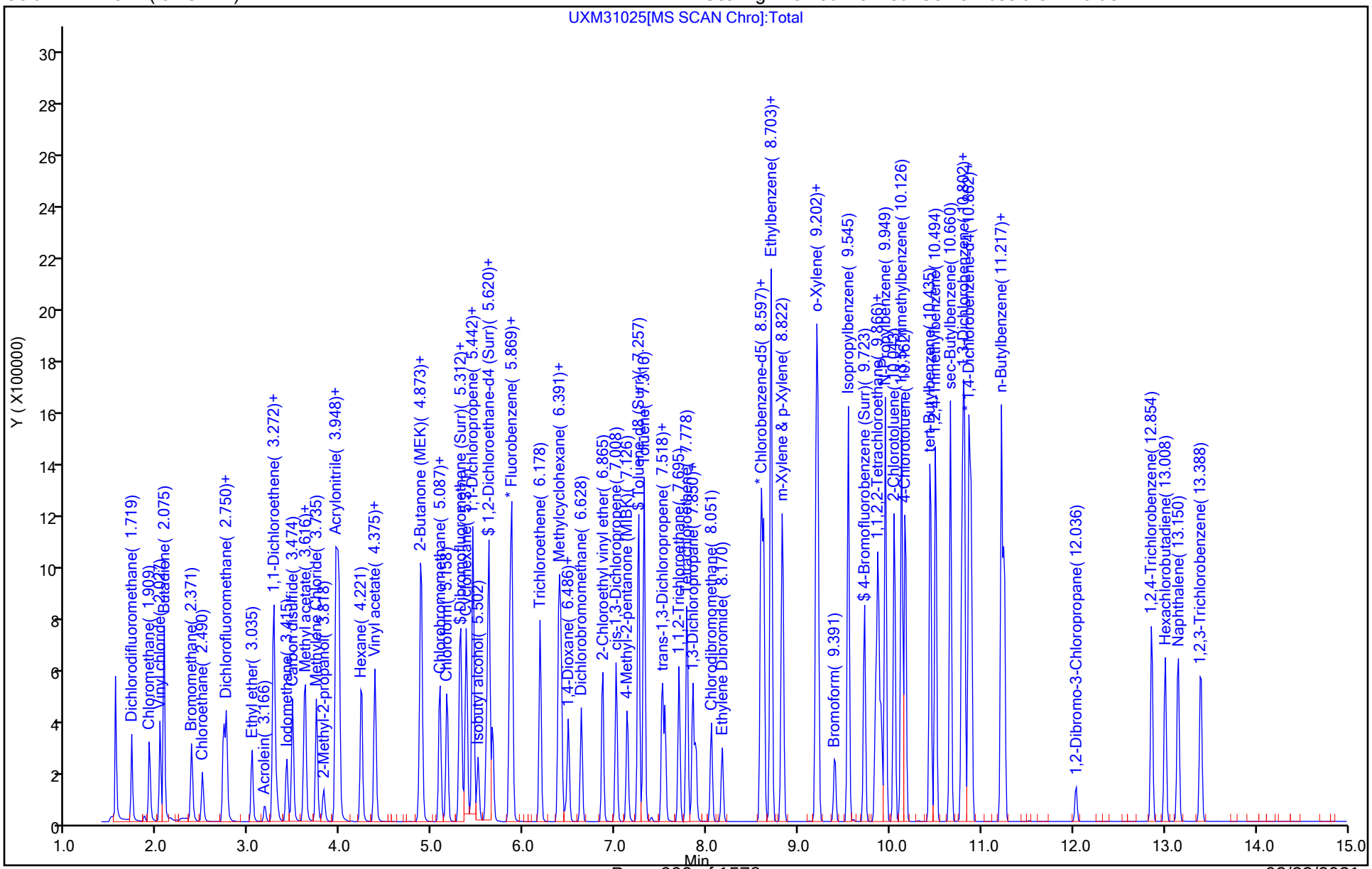
Report Date: 08-Sep-2020 15:53:04 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31025.D

Injection Date:	08-Sep-2020 13:36:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICIS L4			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31026.D
Lims ID: std8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Sep-2020 14:01:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-013
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:53:11 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 14:27:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	949906	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	83	754124	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	410385	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	104187	10.0	10.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.597	-0.001	97	113309	10.0	10.1	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	410525	10.0	10.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	95	146317	10.0	10.0	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	126306	10.0	10.8	
10 Chloromethane	50	1.908	1.909	-0.001	98	149665	10.0	10.0	
11 Vinyl chloride	62	2.027	2.027	0.000	98	168014	10.0	10.5	
12 Butadiene	54	2.075	2.075	-0.001	97	147574	10.0	10.4	
13 Bromomethane	94	2.371	2.371	0.000	90	95953	10.0	9.30	
14 Chloroethane	64	2.490	2.490	0.000	99	83551	10.0	9.76	
15 Dichlorofluoromethane	67	2.727	2.727	0.000	97	182674	10.0	10.0	
16 Trichlorofluoromethane	101	2.750	2.750	0.000	98	172726	10.0	10.7	
17 Ethyl ether	59	3.035	3.035	0.000	87	77374	10.0	10.2	
18 Acrolein	56	3.177	3.177	0.000	98	28530	50.0	50.4	
19 1,1-Dichloroethene	96	3.272	3.260	0.012	98	97332	10.0	10.0	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	91	83204	10.0	10.8	
21 Acetone	58	3.308	3.308	0.000	100	16639	20.0	19.6	
23 Iodomethane	142	3.415	3.415	0.000	98	137997	10.0	9.19	
24 Carbon disulfide	76	3.474	3.474	0.000	99	313390	10.0	9.98	
27 Methyl acetate	43	3.604	3.604	0.000	97	124579	20.0	21.2	
26 3-Chloro-1-propene	41	3.616	3.616	0.000	85	125526	10.0	9.83	
28 Methylene Chloride	84	3.735	3.735	0.000	87	110800	10.0	9.59	
29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	77688	100.0	103.7	
30 Acrylonitrile	53	3.948	3.948	0.000	99	360846	100.0	103.8	
31 Methyl tert-butyl ether	73	3.972	3.972	0.000	94	279149	10.0	10.4	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	95	115378	10.0	10.0	
33 Hexane	57	4.221	4.221	0.000	90	137081	10.0	10.9	
35 Vinyl acetate	43	4.363	4.363	0.000	97	128725	10.0	8.60	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	180676	10.0	10.1	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	97	22232	20.0	20.4	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	79	121706	10.0	9.90	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	88	152244	10.0	9.96	
45 Chlorobromomethane	128	5.087	5.087	0.000	88	60499	10.0	10.4	
46 Tetrahydrofuran	42	5.087	5.087	0.000	84	46517	20.0	20.8	
47 Chloroform	83	5.158	5.158	0.000	94	185173	10.0	10.1	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	167803	10.0	10.3	
49 Cyclohexane	56	5.371	5.371	0.000	84	161683	10.0	10.7	
51 Carbon tetrachloride	117	5.442	5.442	0.000	92	146275	10.0	10.1	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	148760	10.0	10.3	
52 Isobutyl alcohol	41	5.502	5.502	0.000	91	55676	250.0	245.0	
54 Benzene	78	5.620	5.620	0.000	95	442100	10.0	10.1	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	134627	10.0	10.2	
56 n-Heptane	57	5.846	5.846	0.000	85	100398	10.0	10.6	
58 Trichloroethene	130	6.178	6.178	0.000	94	130574	10.0	10.1	
60 Methylcyclohexane	83	6.391	6.391	0.000	88	183908	10.0	10.3	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	94	101634	10.0	10.3	
64 1,4-Dioxane	88	6.462	6.462	0.000	88	24666	200.0	211.9	
63 Dibromomethane	93	6.486	6.486	0.000	91	62006	10.0	9.92	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	131089	10.0	9.97	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	92	122410	20.0	20.0	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	163597	10.0	10.1	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	134958	20.0	20.2	
70 Toluene	91	7.316	7.316	0.000	99	479847	10.0	10.1	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	91	148347	10.0	10.1	
72 Ethyl methacrylate	69	7.541	7.541	0.000	87	105621	10.0	9.55	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	90	92657	10.0	10.3	
75 Tetrachloroethene	164	7.778	7.778	0.000	97	104096	10.0	9.81	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	86	161106	10.0	10.3	
76 2-Hexanone	43	7.873	7.873	0.000	93	96295	20.0	20.5	
78 Chlorodibromomethane	129	8.051	8.051	0.000	90	99325	10.0	9.88	
80 Ethylene Dibromide	107	8.170	8.170	0.000	99	94969	10.0	10.3	
82 Chlorobenzene	112	8.620	8.620	0.000	97	325429	10.0	10.0	
84 Ethylbenzene	106	8.703	8.703	0.000	98	177845	10.0	10.1	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	95	108530	10.0	10.1	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	97	217767	10.0	10.1	
86 o-Xylene	106	9.201	9.190	0.011	95	206785	10.0	10.0	
87 Styrene	104	9.213	9.213	0.000	95	344743	10.0	10.1	
88 Bromoform	173	9.403	9.403	0.000	97	61865	10.0	9.03	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	542009	10.0	10.3	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	96	110519	10.0	10.6	
93 Bromobenzene	156	9.866	9.866	0.000	90	137415	10.0	10.1	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	73	30947	10.0	10.3	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	82	40174	10.0	10.9	
96 N-Propylbenzene	120	9.949	9.949	0.000	98	160990	10.0	10.5	
97 2-Chlorotoluene	126	10.043	10.043	0.000	98	137252	10.0	10.6	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	94	442911	10.0	10.7	
100 4-Chlorotoluene	126	10.162	10.162	0.000	96	140726	10.0	10.5	
102 tert-Butylbenzene	119	10.435	10.435	0.000	91	395706	10.0	10.4	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	437820	10.0	10.7	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	579450	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.791	-0.001	98	257296	10.0	9.87	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	498636	10.0	10.6	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	264974	10.0	10.1	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	425819	10.0	10.6	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	243791	10.0	10.1	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	89	24251	10.0	10.2	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	134730	10.0	9.80	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	97	67962	10.0	9.73	
117 Naphthalene	128	13.150	13.150	0.000	96	314418	10.0	10.2	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	96	123648	10.0	10.0	
S 134 Trihalomethanes, Total	1				0		40.0	38.9	
S 158 Total BTEX	1				0		50.0	50.4	
S 131 1,2-Dichloroethene, Total	96				0			19.9	
S 132 1,3-Dichloropropene, Total	75				0			20.2	
S 133 Xylenes, Total	106				0		20.0	20.1	

Reagents:

vmrgas_00353	Amount Added:	8.00	Units: uL
vmarolistdw_00359	Amount Added:	8.00	Units: uL
vmrprimw_00402	Amount Added:	8.00	Units: uL
vm50ss_00417	Amount Added:	8.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

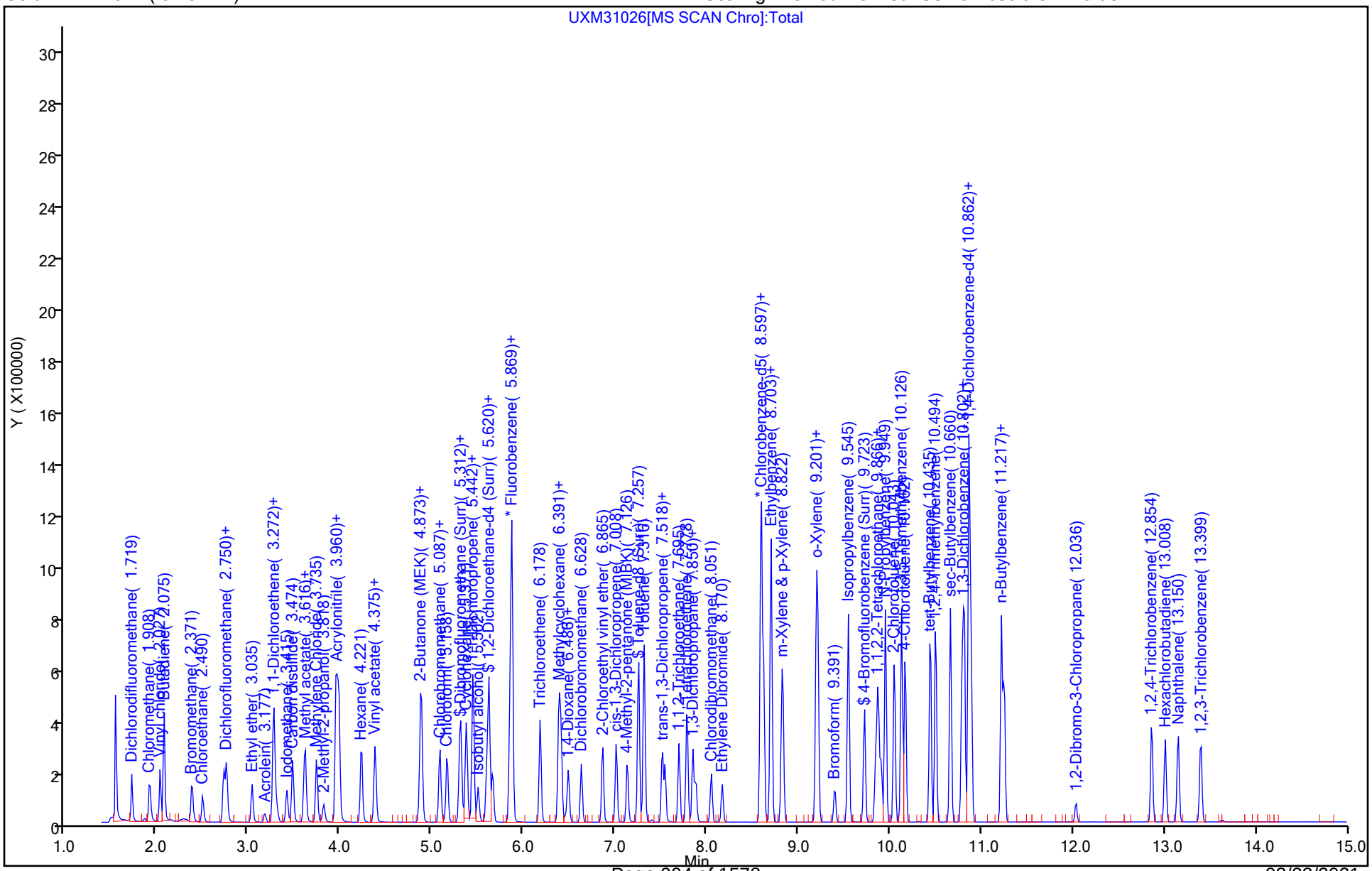
Report Date: 08-Sep-2020 15:53:13 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31026.D

Injection Date:	08-Sep-2020 14:01:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L3			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31027.D
Lims ID: std8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Sep-2020 14:26:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-014
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:53:20 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 14:50:04

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	857034	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.597	8.597	0.000	83	706605	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	380148	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	92	9504	1.00	1.02	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.597	-0.001	97	10645	1.00	1.05	
$	6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	91	35823	1.00	0.9429	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	91	13303	1.00	0.9701	
	9 Dichlorodifluoromethane	85	1.719	1.719	0.000	97	9486	1.00	0.8962	
	10 Chloromethane	50	1.908	1.909	-0.001	99	15405	1.00	1.14	
	11 Vinyl chloride	62	2.027	2.027	0.000	97	14226	1.00	0.9811	
	12 Butadiene	54	2.074	2.075	-0.001	97	12580	1.00	0.9843	
	13 Bromomethane	94	2.383	2.371	0.012	89	9499	1.00	1.02	
	14 Chloroethane	64	2.489	2.490	-0.001	95	7624	1.00	0.9874	
	15 Dichlorofluoromethane	67	2.727	2.727	0.000	95	17183	1.00	1.05	
	16 Trichlorofluoromethane	101	2.762	2.750	0.012	98	13107	1.00	0.9034	
	17 Ethyl ether	59	3.035	3.035	0.000	86	5866	1.00	0.8581	
	18 Acrolein	56	3.177	3.177	0.000	97	2199	5.00	4.30	
	19 1,1-Dichloroethene	96	3.272	3.260	0.012	97	7991	1.00	0.9102	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	87	6055	1.00	0.8751	
	21 Acetone	58	3.308	3.308	0.000	98	1814	2.00	2.37	
	23 Iodomethane	142	3.414	3.415	-0.001	96	15454	1.00	1.14	
	24 Carbon disulfide	76	3.474	3.474	0.000	99	28986	1.00	1.02	
	27 Methyl acetate	43	3.604	3.604	0.000	96	10468	2.00	1.97	
	26 3-Chloro-1-propene	41	3.616	3.616	0.000	85	12249	1.00	1.06	
	28 Methylene Chloride	84	3.735	3.735	0.000	86	12177	1.00	1.17	
	29 2-Methyl-2-propanol	59	3.818	3.818	0.000	96	6282	10.0	9.29	
	30 Acrylonitrile	53	3.948	3.948	0.000	97	31232	10.0	9.95	
	31 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	21006	1.00	0.8648	
	32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	94	11126	1.00	1.07	
	33 Hexane	57	4.233	4.221	0.012	89	8335	1.00	0.7347	
	35 Vinyl acetate	43	4.375	4.363	0.012	51	8968	1.00	0.9755	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	94	16067	1.00	1.00	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	62	1042	2.00	2.15	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	79	11326	1.00	1.02	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	90	12827	1.00	0.9298	
45 Chlorobromomethane	128	5.087	5.087	-0.001	88	5242	1.00	1.00	
46 Tetrahydrofuran	42	5.087	5.087	-0.001	79	4187	2.00	2.08	
47 Chloroform	83	5.158	5.158	0.000	93	17409	1.00	1.05	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	13769	1.00	0.9399	
49 Cyclohexane	56	5.371	5.371	0.000	88	12004	1.00	0.8767	
51 Carbon tetrachloride	117	5.442	5.442	0.000	93	12330	1.00	0.9473	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	91	11408	1.00	0.8775	
52 Isobutyl alcohol	41	5.502	5.502	0.000	86	3530	25.0	23.9	
54 Benzene	78	5.620	5.620	0.000	96	36613	1.00	0.9301	
53 1,2-Dichloroethane	62	5.668	5.656	0.012	96	12009	1.00	1.01	
56 n-Heptane	57	5.869	5.846	0.023	79	29555	1.00	0.9000	
58 Trichloroethene	130	6.177	6.178	-0.001	94	10964	1.00	0.9374	
60 Methylcyclohexane	83	6.391	6.391	0.000	87	11948	1.00	0.7409	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	89	7887	1.00	0.8823	
64 1,4-Dioxane	88	6.462	6.462	0.000	16	1762	20.0	16.8	
63 Dibromomethane	93	6.486	6.486	0.000	94	5834	1.00	1.03	
65 Dichlorobromomethane	83	6.628	6.628	0.000	97	11545	1.00	0.9728	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	89	8476	2.00	1.53	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	13227	1.00	0.9081	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	92	9406	2.00	1.56	
70 Toluene	91	7.316	7.316	0.000	98	41109	1.00	0.9278	
71 trans-1,3-Dichloropropene	75	7.517	7.518	-0.001	92	11747	1.00	0.8505	
72 Ethyl methacrylate	69	7.541	7.541	0.000	79	7556	1.00	0.7295	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	87	8198	1.00	0.9692	
75 Tetrachloroethene	164	7.778	7.778	0.000	96	9324	1.00	0.9378	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	85	13393	1.00	0.9146	
76 2-Hexanone	43	7.885	7.873	0.012	92	7030	2.00	1.60	
78 Chlorodibromomethane	129	8.051	8.051	0.000	85	7995	1.00	0.8486	
80 Ethylene Dibromide	107	8.170	8.170	0.000	98	7438	1.00	0.8604	
82 Chlorobenzene	112	8.620	8.620	0.000	97	29312	1.00	0.9647	
84 Ethylbenzene	106	8.703	8.703	0.000	97	15435	1.00	0.9346	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	83	8594	1.00	0.8545	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	99	18486	1.00	0.9113	
86 o-Xylene	106	9.201	9.190	0.011	95	17828	1.00	0.9199	
87 Styrene	104	9.213	9.213	0.000	94	27678	1.00	0.8673	
88 Bromoform	173	9.403	9.403	0.000	93	5256	1.00	0.8185	
89 Isopropylbenzene	105	9.545	9.545	0.000	94	42462	1.00	0.8582	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	92	9414	1.00	0.9713	
93 Bromobenzene	156	9.865	9.866	-0.001	87	12472	1.00	0.99	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	41	2381	1.00	0.8587	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	81	3375	1.00	0.9850	
96 N-Propylbenzene	120	9.948	9.949	-0.001	98	13473	1.00	0.9496	
97 2-Chlorotoluene	126	10.043	10.043	0.000	97	11432	1.00	0.9556	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	95	34919	1.00	0.9095	
100 4-Chlorotoluene	126	10.174	10.162	0.012	95	11792	1.00	0.9535	
102 tert-Butylbenzene	119	10.447	10.435	0.012	91	33529	1.00	0.9526	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	95	32781	1.00	0.8666	
105 sec-Butylbenzene	105	10.660	10.660	0.000	92	47246	1.00	0.9348	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.790	10.791	-0.001	98	24087	1.00	1.00	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	39007	1.00	0.8936	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	24117	1.00	0.99	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	33115	1.00	0.8919	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	97	22847	1.00	1.02	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	1	1752	1.00	0.7960	
115 1,2,4-Trichlorobenzene	180	12.866	12.854	0.012	93	11531	1.00	0.9056	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	82	6447	1.00	1.00	
117 Naphthalene	128	13.150	13.150	0.000	95	25363	1.00	0.8898	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	93	11438	1.00	1.00	
S 134 Trihalomethanes, Total	1				0		4.00	3.69	
S 158 Total BTEX	1				0		5.00	4.62	
S 131 1,2-Dichloroethene, Total	96				0			2.09	
S 132 1,3-Dichloropropene, Total	75				0			1.76	
S 133 Xylenes, Total	106				0		2.00	1.83	

Reagents:

vmrgas_00353	Amount Added:	0.80	Units: uL
vmarolistdw_00359	Amount Added:	0.80	Units: uL
vmrprimw_00402	Amount Added:	0.80	Units: uL
vm50ss_00417	Amount Added:	0.80	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

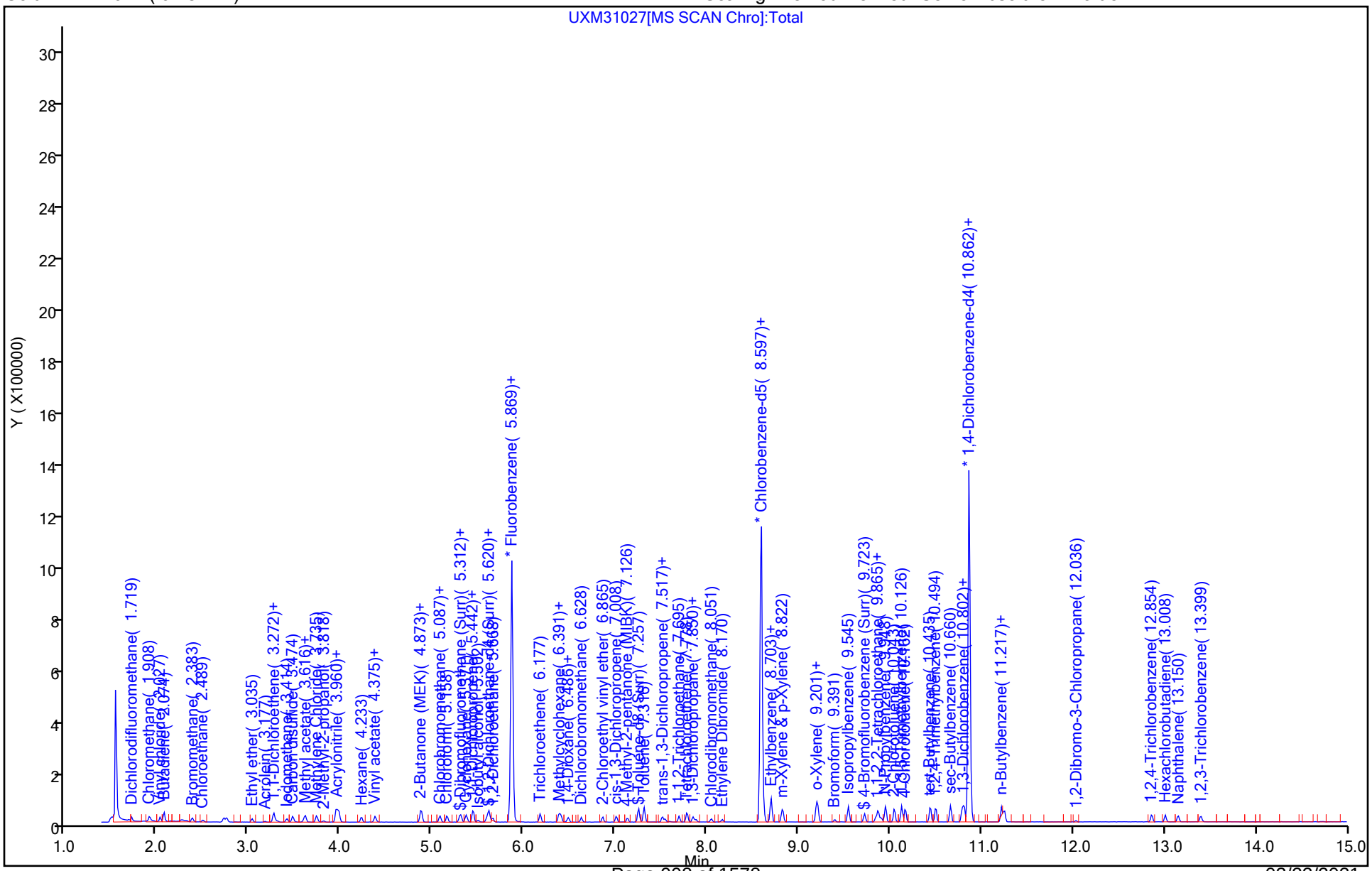
Report Date: 08-Sep-2020 15:53:21 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31027.D

Injection Date:	08-Sep-2020 14:26:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L2			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton

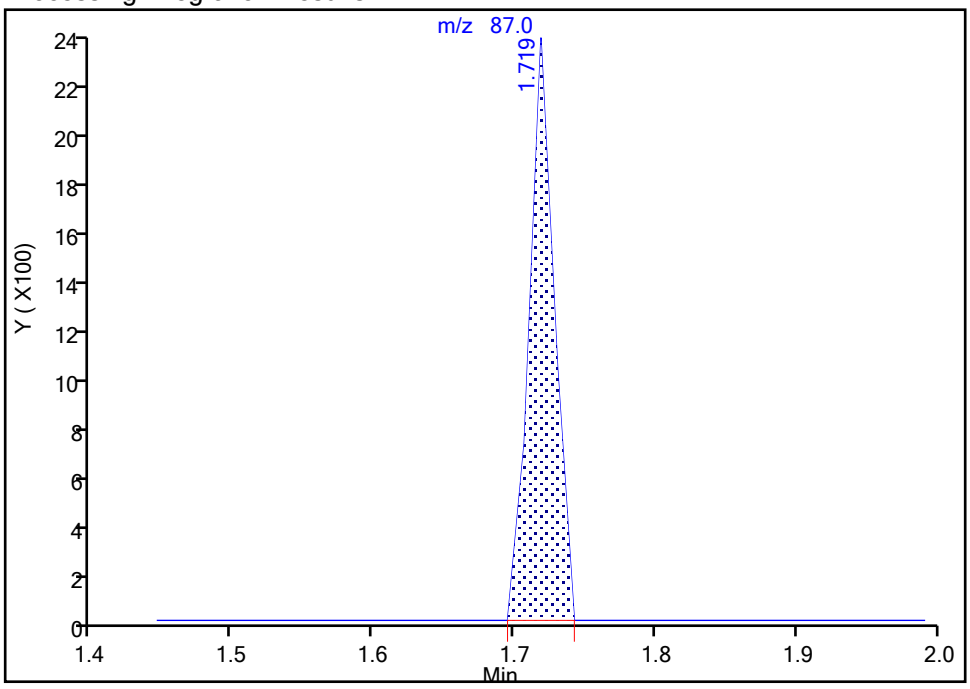
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31027.D
Injection Date: 08-Sep-2020 14:26:30 Instrument ID: A3UX16
Lims ID: std8260 L2
Client ID:
Operator ID: 001765 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 2

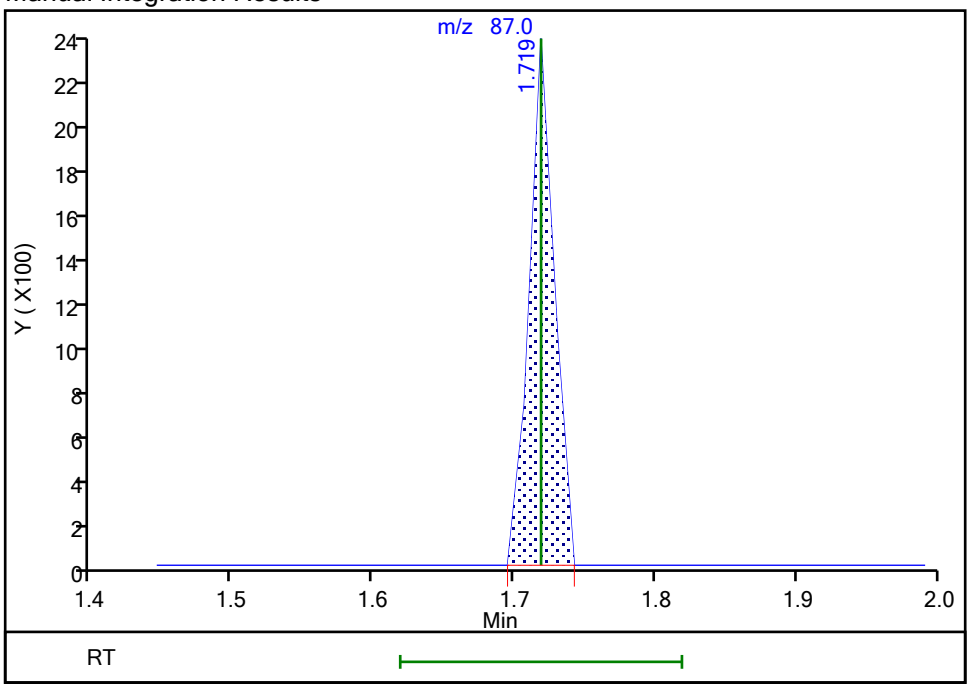
Processing Integration Results

RT: 1.72
Area: 2876
Amount: 0.896179
Amount Units: ug/l



Manual Integration Results

RT: 1.72
Area: 2876
Amount: 0.896179
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:39:24
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton

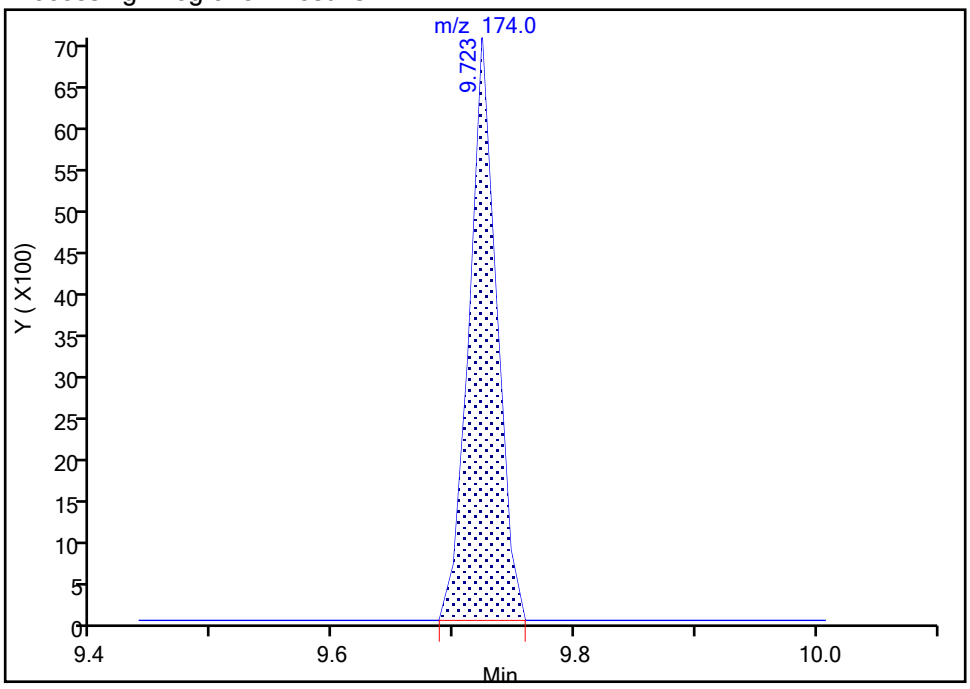
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31027.D
Injection Date: 08-Sep-2020 14:26:30 Instrument ID: A3UX16
Lims ID: std8260 L2
Client ID:
Operator ID: 001765 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 2

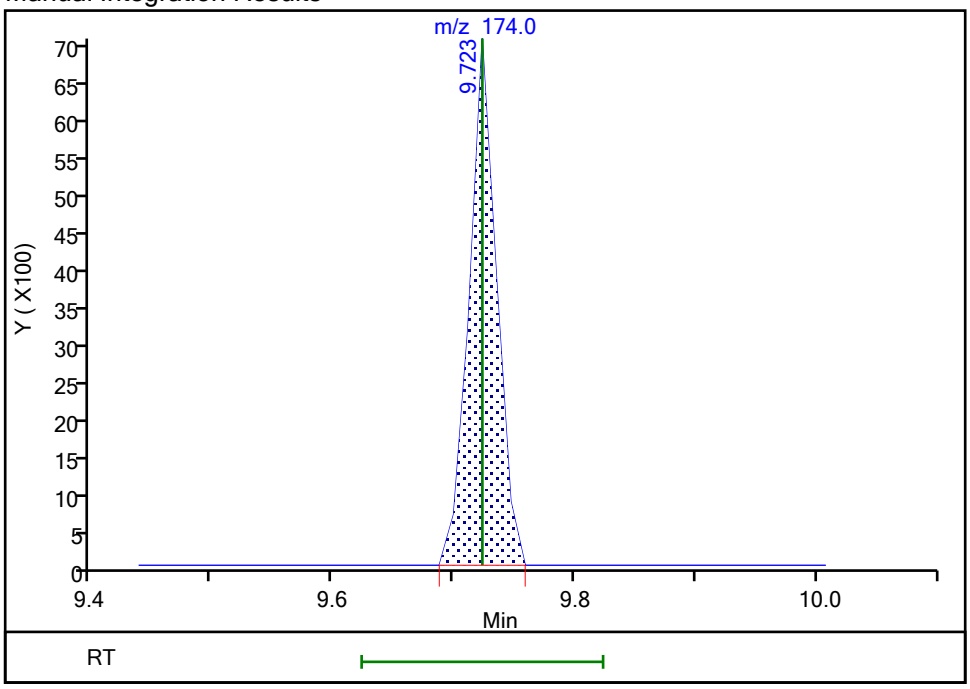
Processing Integration Results

RT: 9.72
Area: 11065
Amount: 0.970110
Amount Units: ug/l



Manual Integration Results

RT: 9.72
Area: 11065
Amount: 0.970110
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:41:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

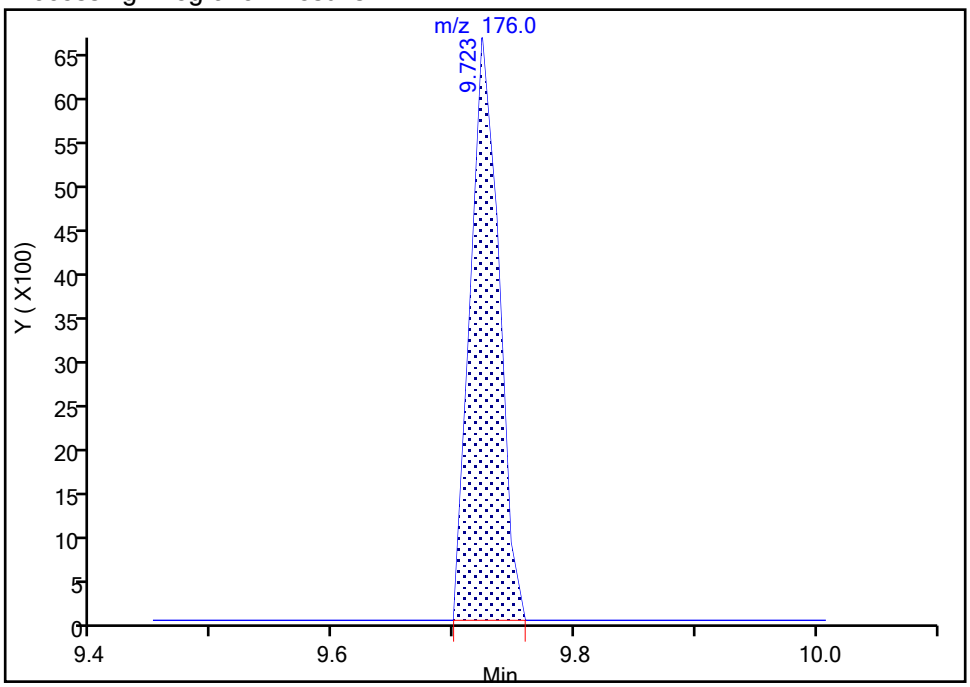
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31027.D
Injection Date: 08-Sep-2020 14:26:30 Instrument ID: A3UX16
Lims ID: std8260 L2
Client ID:
Operator ID: 001765 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Signal: 3

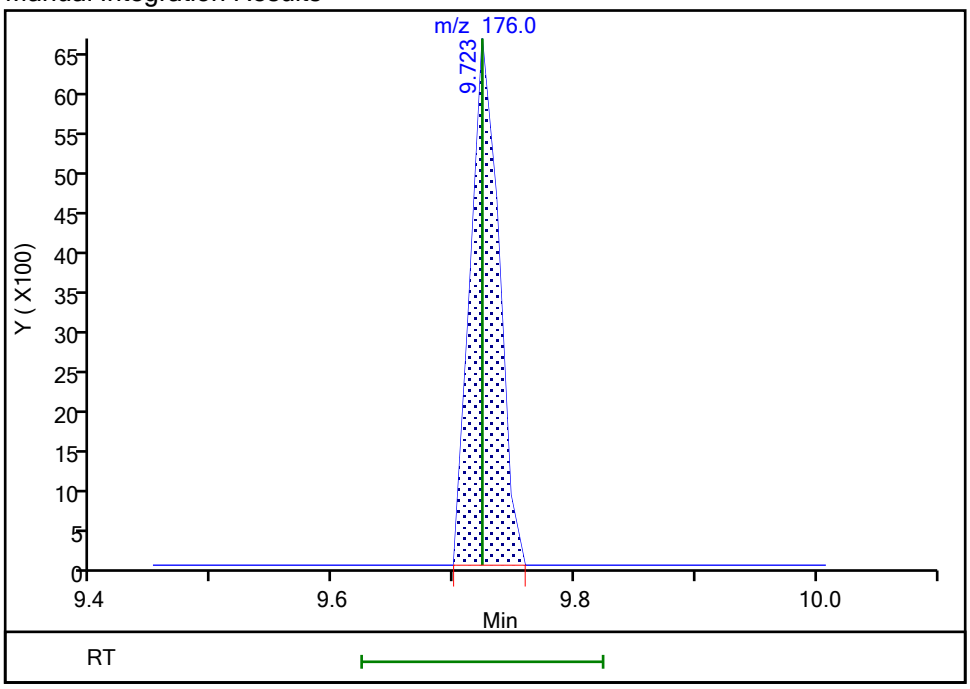
Processing Integration Results

RT: 9.72
Area: 10870
Amount: 0.970110
Amount Units: ug/l



Manual Integration Results

RT: 9.72
Area: 10870
Amount: 0.970110
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:41:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Lims ID: std8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Sep-2020 14:50:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-015
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:53:27 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 15:23:45

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	100	841447	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	695225	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	385450	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	89	4221	0.5000	0.4602	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.597	0.000	95	4996	0.5000	0.5032	
$	6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	90	16446	0.5000	0.4400	
$	7 4-Bromofluorobenzene (Surr)	95		9.723				ND	ND	U
	9 Dichlorodifluoromethane	85	1.719	1.719	0.000	97	4665	0.5000	0.4489	
	10 Chloromethane	50	1.909	1.909	0.000	95	7957	0.5000	0.5997	
	11 Vinyl chloride	62	2.027	2.027	0.000	94	7238	0.5000	0.5084	
	12 Butadiene	54	2.075	2.075	0.000	94	5881	0.5000	0.4687	
	13 Bromomethane	94	2.383	2.371	0.012	82	5345	0.5000	0.5847	
	14 Chloroethane	64	2.501	2.490	0.011	93	3482	0.5000	0.4593	
	15 Dichlorofluoromethane	67	2.727	2.727	0.000	95	8090	0.5000	0.5018	
	16 Trichlorofluoromethane	101	2.751	2.750	0.000	97	6163	0.5000	0.4327	
	17 Ethyl ether	59	3.035	3.035	0.000	82	3432	0.5000	0.5113	
	18 Acrolein	56		3.177				ND	ND	MUa
	19 1,1-Dichloroethene	96	3.272	3.260	0.012	91	4675	0.5000	0.5424	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	64	2542	0.5000	0.3742	
	21 Acetone	58	3.308	3.308	0.000	98	885	1.00	1.18	
	23 Iodomethane	142	3.415	3.415	0.000	97	7737	0.5000	0.5815	
	24 Carbon disulfide	76	3.474	3.474	0.000	98	14385	0.5000	0.5174	
	27 Methyl acetate	43	3.604	3.604	0.000	56	4573	1.00	0.8779	
	26 3-Chloro-1-propene	41	3.616	3.616	0.000	78	5538	0.5000	0.4893	
	28 Methylene Chloride	84	3.735	3.735	0.000	86	6017	0.5000	0.5878	
	29 2-Methyl-2-propanol	59		3.818				ND	ND	U
	30 Acrylonitrile	53	3.948	3.948	0.000	98	13809	5.00	4.48	
	31 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	10014	0.5000	0.4199	
	32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	94	5014	0.5000	0.4914	
	33 Hexane	57		4.221				ND	ND	U
	35 Vinyl acetate	43	4.375	4.363	0.012	55	3731	0.5000	0.6081	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	91	7550	0.5000	0.4784	
40 2-Butanone (MEK)	72		4.861				ND	ND	Ua
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	78	5303	0.5000	0.4870	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	83	6138	0.5000	0.4532	
45 Chlorobromomethane	128	5.087	5.087	0.000	76	2482	0.5000	0.4825	
46 Tetrahydrofuran	42	5.087	5.087	0.000	54	1478	1.00	0.7472	
47 Chloroform	83	5.170	5.158	0.012	90	7880	0.5000	0.4838	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	96	6809	0.5000	0.4734	
49 Cyclohexane	56	5.371	5.371	0.000	85	5166	0.5000	0.3843	
51 Carbon tetrachloride	117	5.442	5.442	0.000	94	5873	0.5000	0.4596	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	90	5681	0.5000	0.4451	
52 Isobutyl alcohol	41	5.502	5.502	0.000	35	1480	12.5	14.3	
54 Benzene	78	5.620	5.620	0.000	95	18845	0.5000	0.4876	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	90	5565	0.5000	0.4747	
56 n-Heptane	57	5.869	5.846	0.023	74	26707	0.5000	0.5277	
58 Trichloroethene	130	6.178	6.178	0.000	90	5929	0.5000	0.5163	
60 Methylcyclohexane	83		6.391				ND	ND	U
61 1,2-Dichloropropane	63	6.403	6.403	0.000	93	4173	0.5000	0.4755	
64 1,4-Dioxane	88		6.462				ND	ND	
63 Dibromomethane	93	6.486	6.486	0.000	88	2630	0.5000	0.4752	
65 Dichlorobromomethane	83	6.628	6.628	0.000	91	5428	0.5000	0.4658	
67 2-Chloroethyl vinyl ether	63		6.865				ND	ND	U
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	95	5856	0.5000	0.4095	
69 4-Methyl-2-pentanone (MIBK)	43		7.126				ND	ND	U
70 Toluene	91	7.316	7.316	0.000	98	19729	0.5000	0.4526	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	82	5499	0.5000	0.4047	
72 Ethyl methacrylate	69		7.541				ND	ND	U
73 1,1,2-Trichloroethane	97	7.696	7.695	0.001	83	3305	0.5000	0.3971	
75 Tetrachloroethene	164	7.779	7.778	0.000	93	4432	0.5000	0.4530	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	82	5570	0.5000	0.3866	
76 2-Hexanone	43		7.873				ND	ND	U
78 Chlorodibromomethane	129	8.051	8.051	0.000	81	3760	0.5000	0.4056	
80 Ethylene Dibromide	107	8.170	8.170	0.000	97	3472	0.5000	0.4082	
82 Chlorobenzene	112	8.620	8.620	0.000	95	14399	0.5000	0.4817	
84 Ethylbenzene	106	8.703	8.703	0.000	95	7359	0.5000	0.4529	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	89	3704	0.5000	0.3743	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	96	8968	0.5000	0.4493	
86 o-Xylene	106	9.202	9.190	0.012	93	8505	0.5000	0.4460	
87 Styrene	104	9.213	9.213	0.000	93	13125	0.5000	0.4180	
88 Bromoform	173		9.403				ND	ND	U
89 Isopropylbenzene	105	9.545	9.545	0.000	93	21090	0.5000	0.4332	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	84	4265	0.5000	0.4340	
93 Bromobenzene	156	9.866	9.866	0.000	84	5874	0.5000	0.4600	
94 trans-1,4-Dichloro-2-butene	53		9.877				ND	ND	U
95 1,2,3-Trichloropropane	110	9.913	9.901	0.012	76	1504	0.5000	0.4329	
96 N-Propylbenzene	120	9.949	9.949	0.000	97	5909	0.5000	0.4107	
97 2-Chlorotoluene	126	10.043	10.043	0.000	97	5232	0.5000	0.4313	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	93	15543	0.5000	0.3993	
100 4-Chlorotoluene	126	10.162	10.162	0.000	94	5290	0.5000	0.4219	
102 tert-Butylbenzene	119	10.435	10.435	0.000	87	15282	0.5000	0.4282	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	94	15177	0.5000	0.3957	
105 sec-Butylbenzene	105	10.660	10.660	0.000	92	20431	0.5000	0.3987	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.791	0.000	94	11864	0.5000	0.4848	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	95	16480	0.5000	0.3723	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	97	12260	0.5000	0.4965	
111 n-Butylbenzene	91	11.217	11.217	0.000	96	14441	0.5000	0.3836	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	95	10211	0.5000	0.4512	
113 1,2-Dibromo-3-Chloropropane	157		12.036				ND	ND	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	87	5557	0.5000	0.4304	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	81	2596	0.5000	0.3958	
117 Naphthalene	128	13.150	13.150	0.000	91	11685	0.5000	0.4043	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	93	5119	0.5000	0.4429	
S 134 Trihalomethanes, Total	1				0		2.00	1.36	
S 158 Total BTEX	1				0		2.50	2.29	
S 131 1,2-Dichloroethene, Total	96				0			0.9784	
S 132 1,3-Dichloropropene, Total	75				0			0.8142	
S 133 Xylenes, Total	106				0		1.00	0.8953	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

vmrgas_00353	Amount Added:	0.40	Units: uL
vmarolistdw_00359	Amount Added:	0.40	Units: uL
vmrprimw_00402	Amount Added:	0.40	Units: uL
vm50ss_00417	Amount Added:	0.40	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

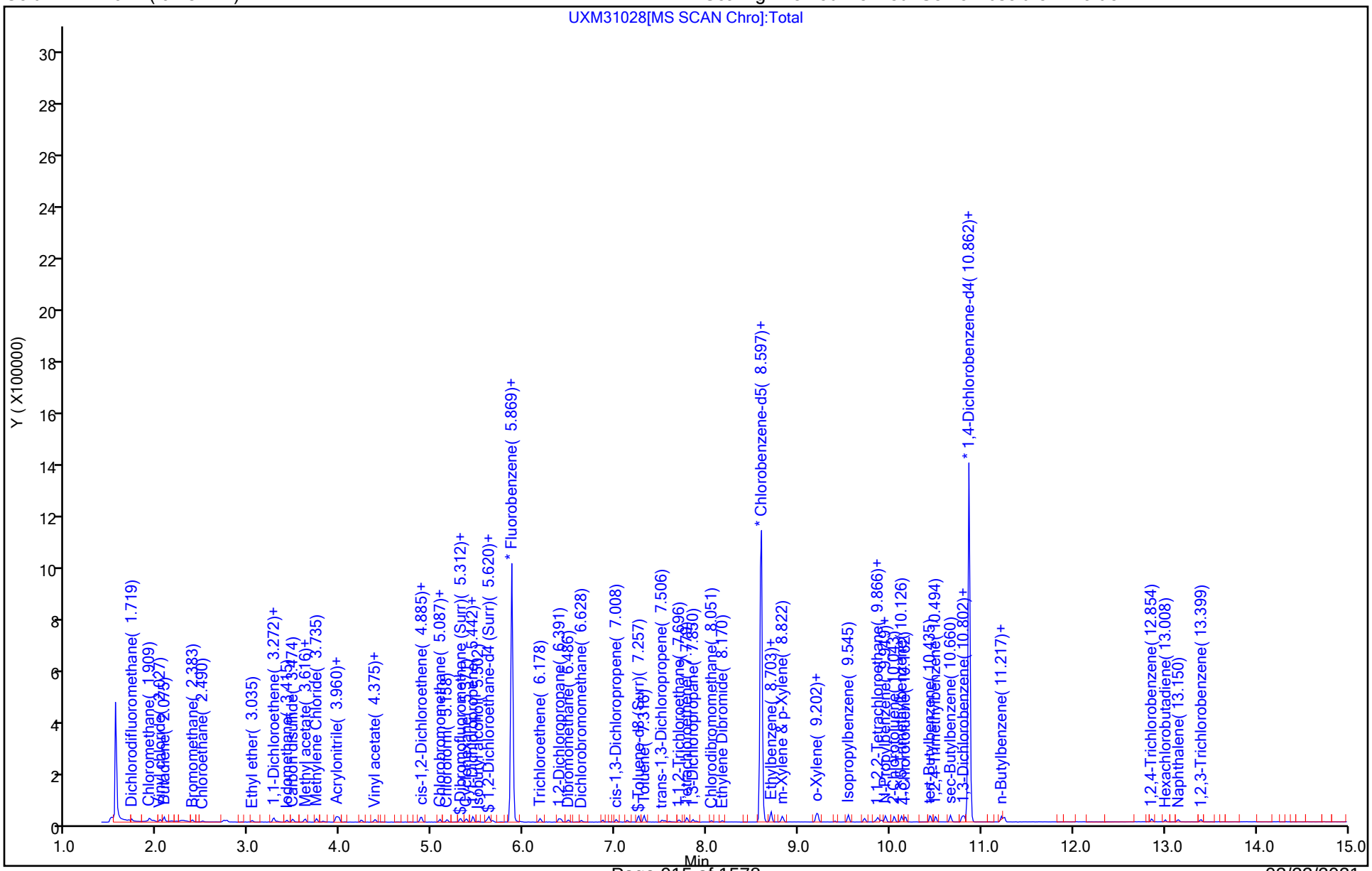
Report Date: 08-Sep-2020 15:53:29 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Injection Date:	08-Sep-2020 14:50:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L1			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

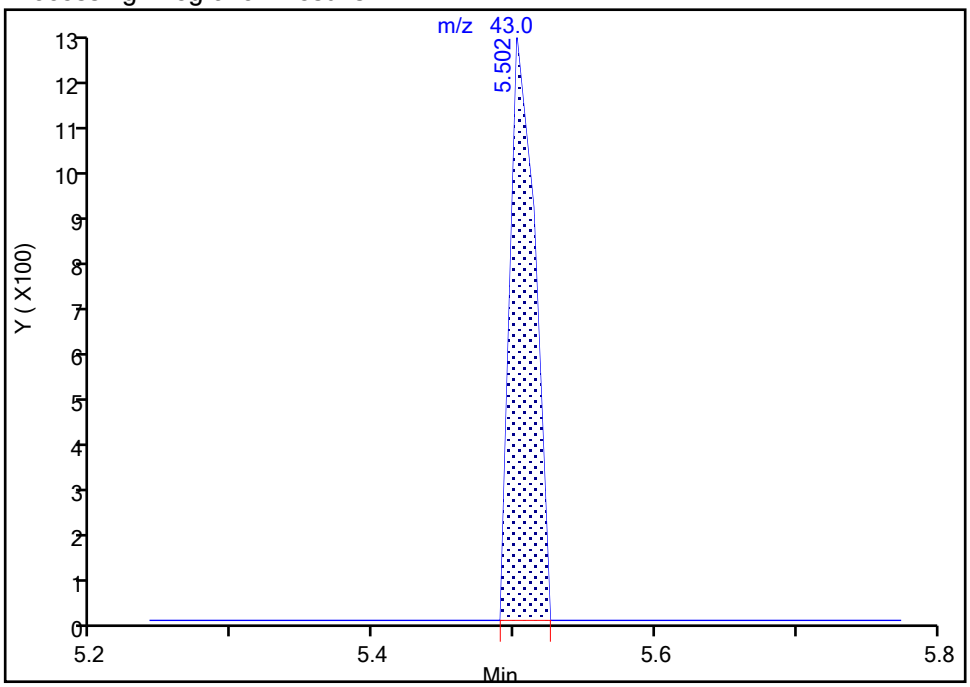
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

52 Isobutyl alcohol, CAS: 78-83-1

Signal: 2

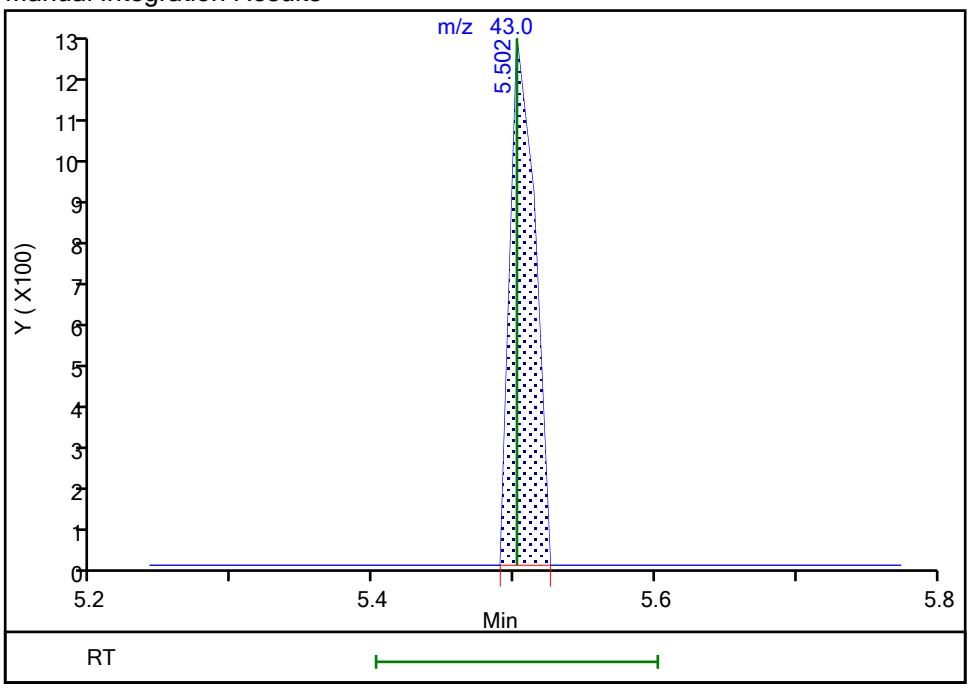
Processing Integration Results

RT: 5.50
Area: 1544
Amount: 14.339769
Amount Units: ug/l



Manual Integration Results

RT: 5.50
Area: 1544
Amount: 14.339769
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:25:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

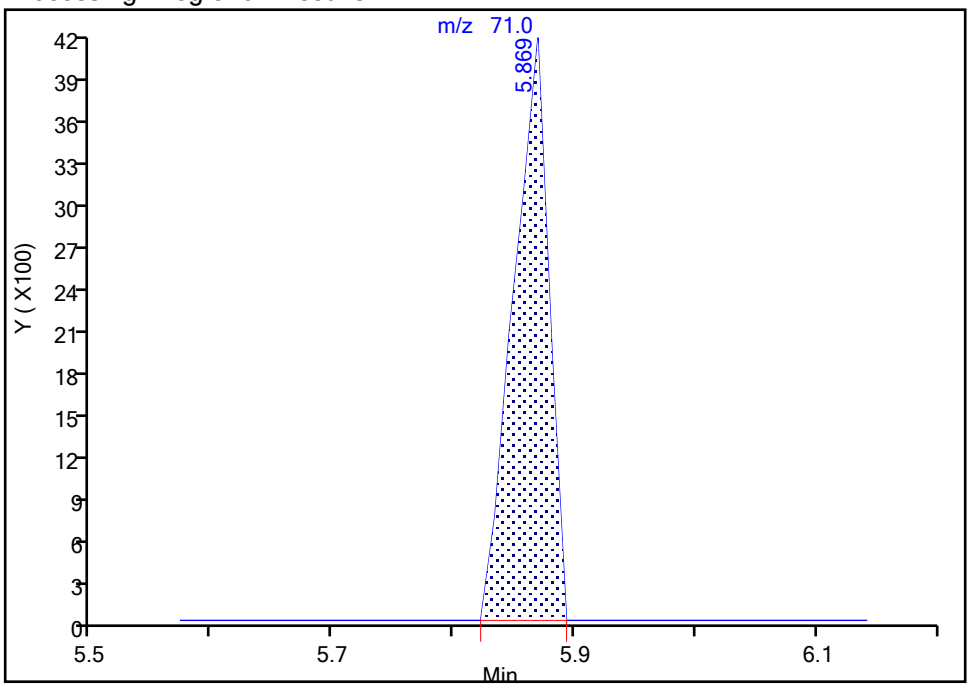
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

56 n-Heptane, CAS: 142-82-5

Signal: 2

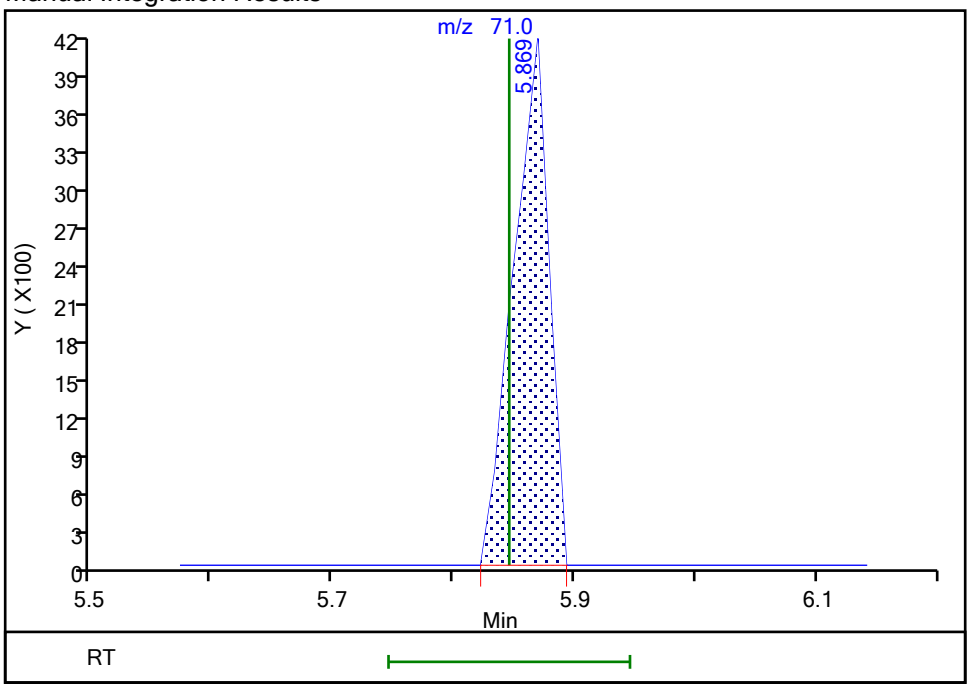
Processing Integration Results

RT: 5.87
Area: 8372
Amount: 0.583358
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 8372
Amount: 0.527744
Amount Units: ug/l



Reviewer: bosworthh, 08-Sep-2020 15:26:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

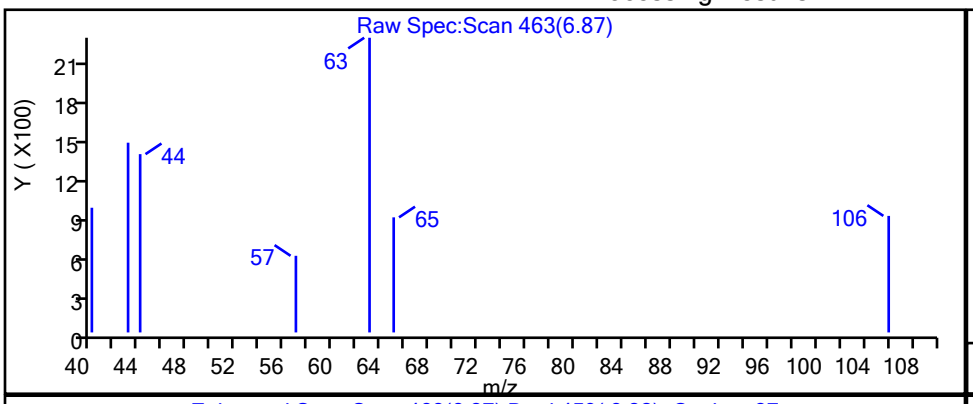
User Disabled Compound Report

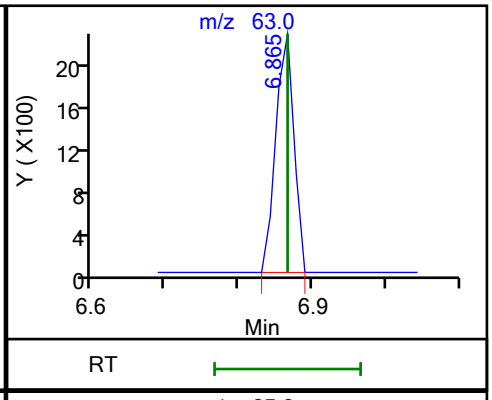
Eurofins TestAmerica, Canton

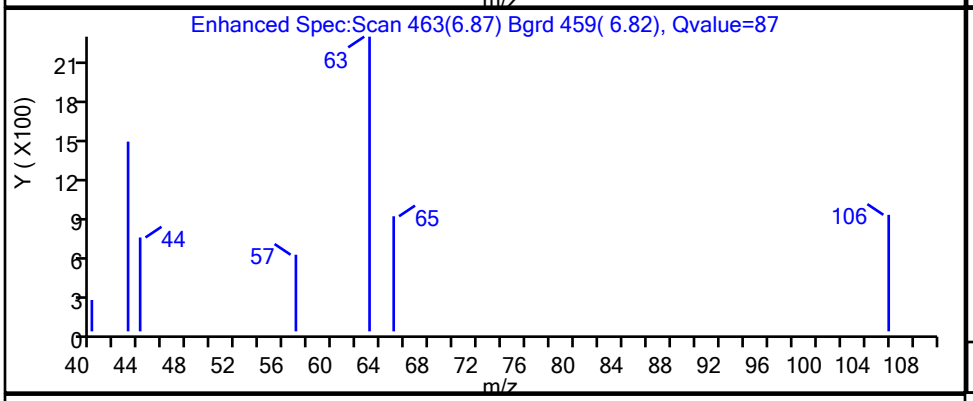
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

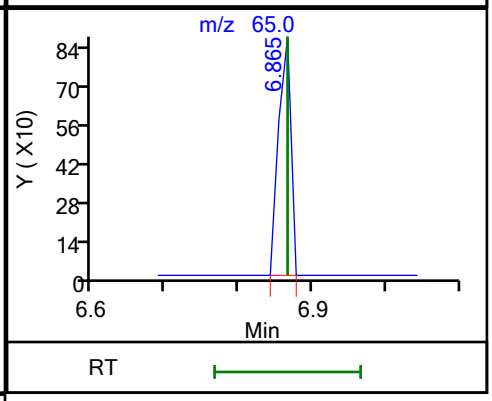
67 2-Chloroethyl vinyl ether, CAS: 110-75-8

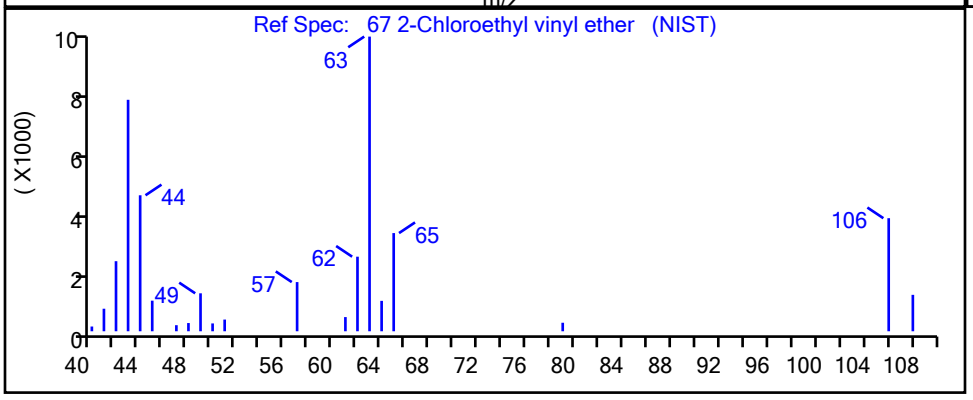
Processing Results











RT	Mass	Response	Amount
6.87	63.00	3865	1.132180
6.87	65.00	1027	

Reviewer: bosworthh, 08-Sep-2020 15:14:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

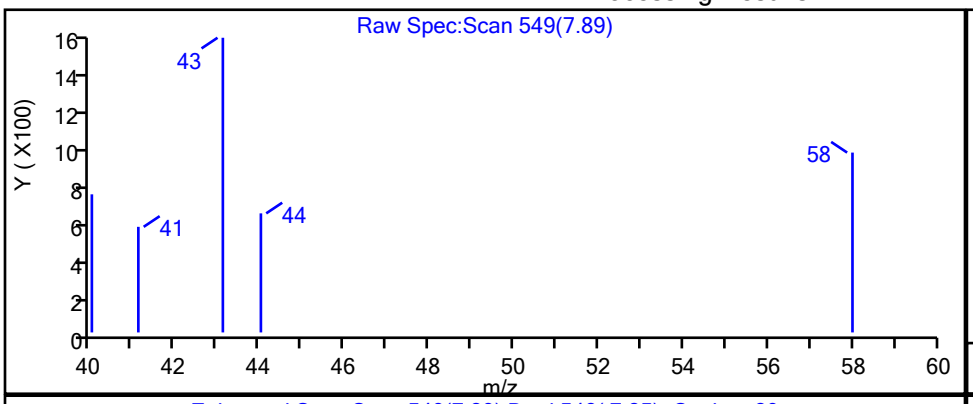
User Disabled Compound Report

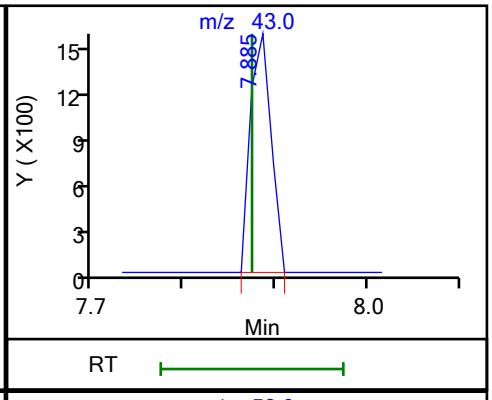
Eurofins TestAmerica, Canton

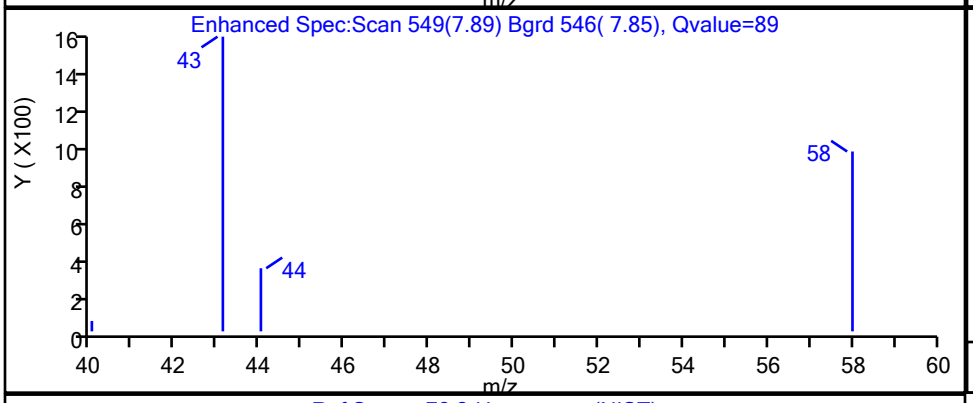
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

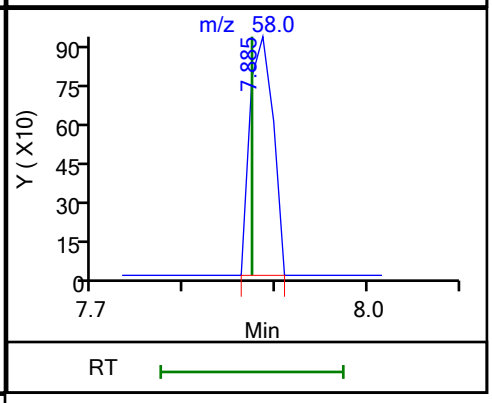
76 2-Hexanone, CAS: 591-78-6

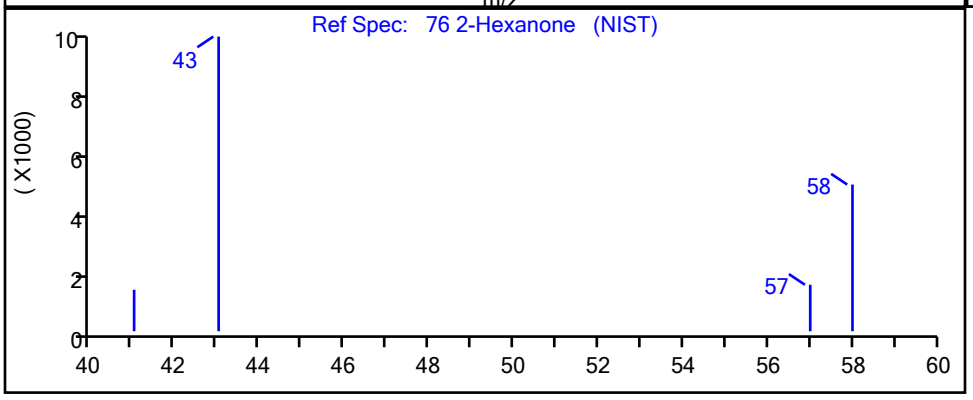
Processing Results











RT	Mass	Response	Amount
7.89	43.00	2429	1.047079
7.89	58.00	1649	

Reviewer: bosworthh, 08-Sep-2020 15:15:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

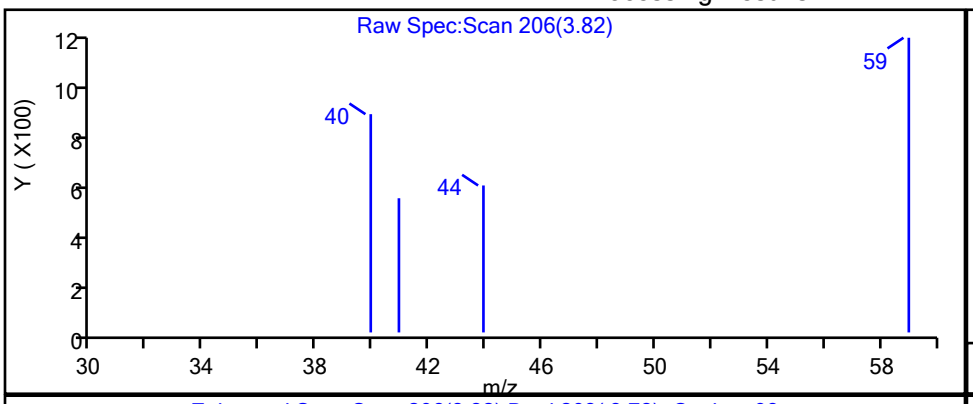
User Disabled Compound Report

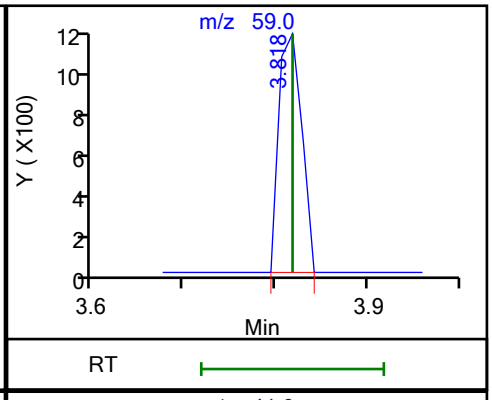
Eurofins TestAmerica, Canton

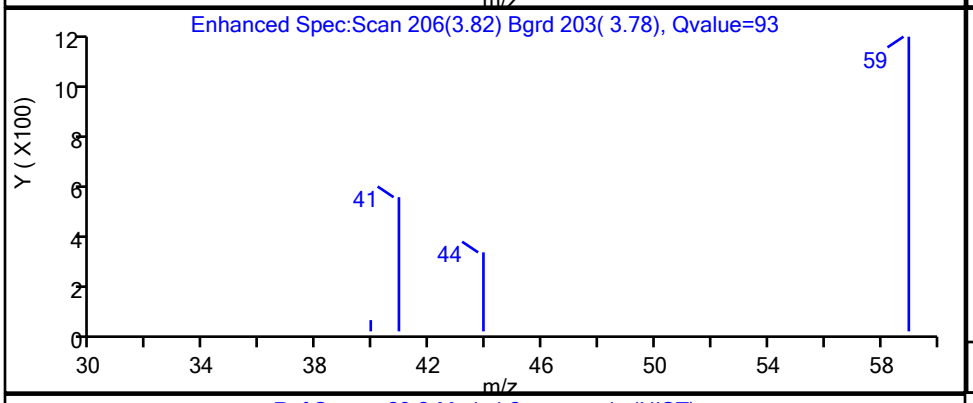
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

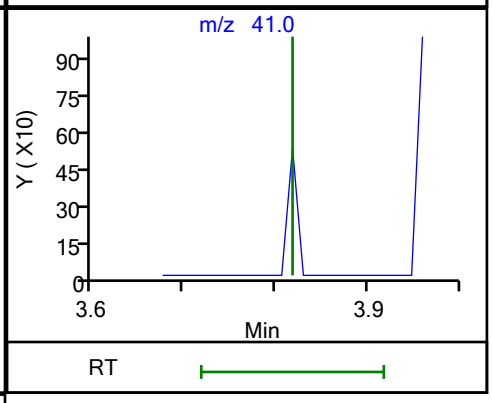
29 2-Methyl-2-propanol, CAS: 75-65-0

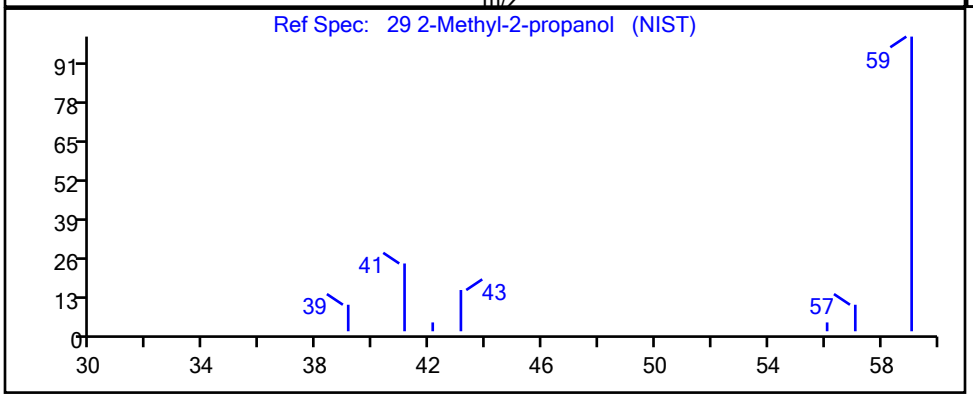
Processing Results











RT	Mass	Response	Amount
3.82	59.00	2010	4.824972
3.82	41.00	0	

Reviewer: bosworthh, 08-Sep-2020 15:10:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

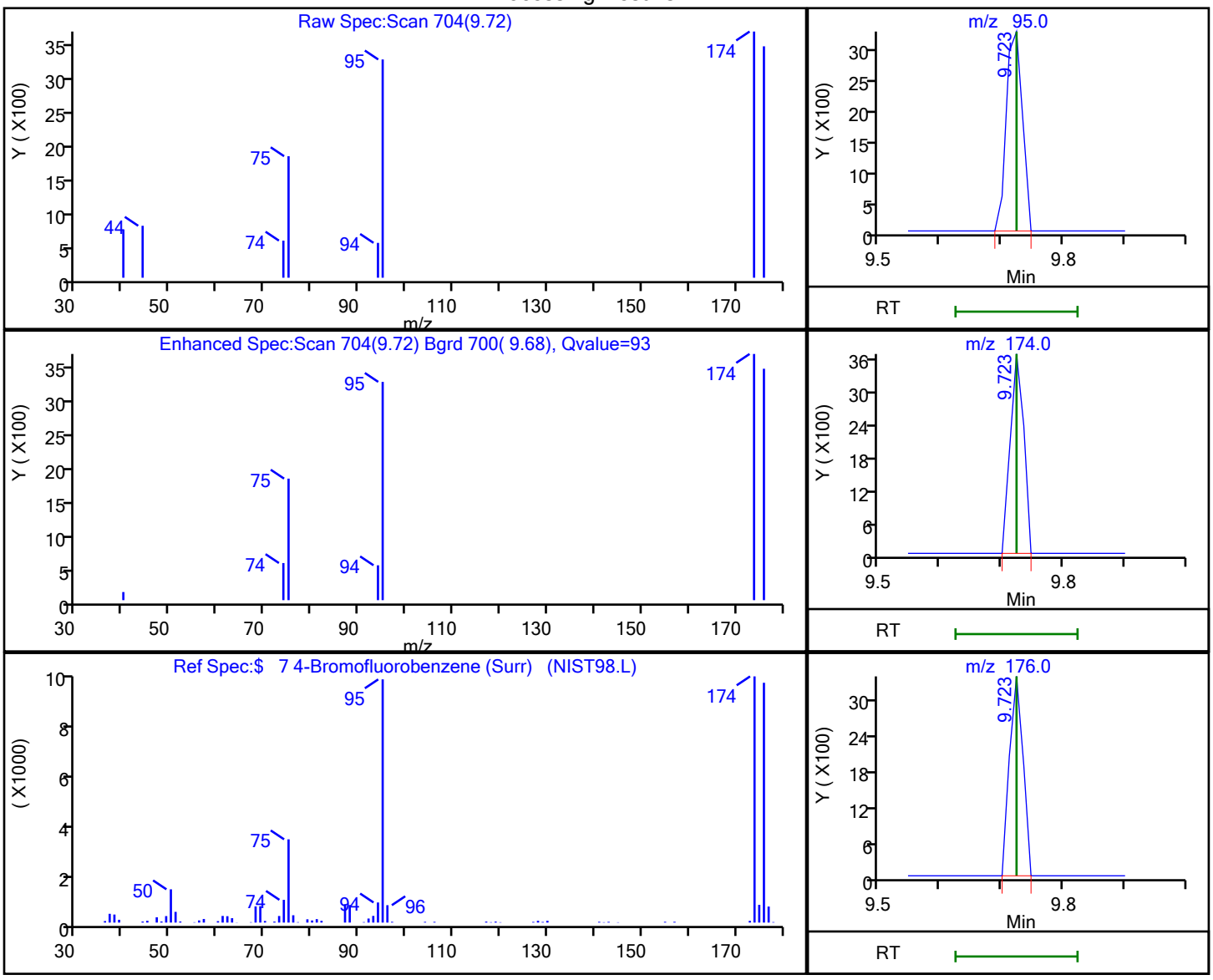
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

$ 7 4-Bromofluorobenzene (Surr), CAS: 460-00-4

Processing Results



RT	Mass	Response	Amount
9.72	95.00	5857	0.442437
9.72	174.00	5521	
9.72	176.00	5210	

Reviewer: bosworthh, 08-Sep-2020 15:51:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

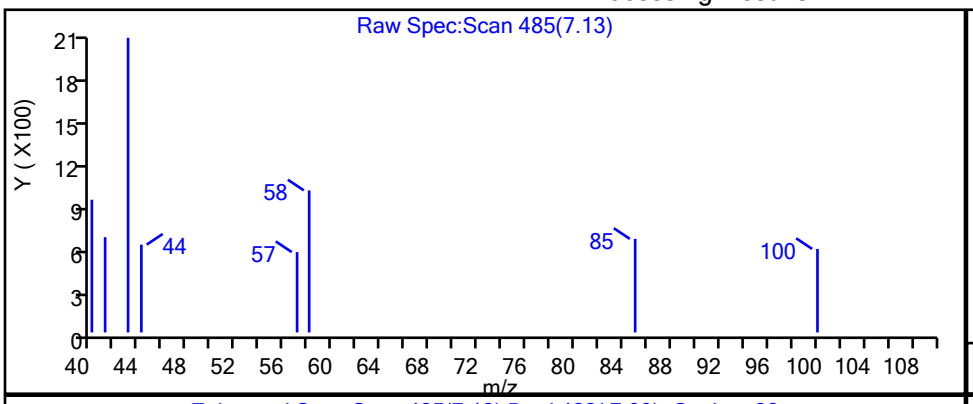
User Disabled Compound Report

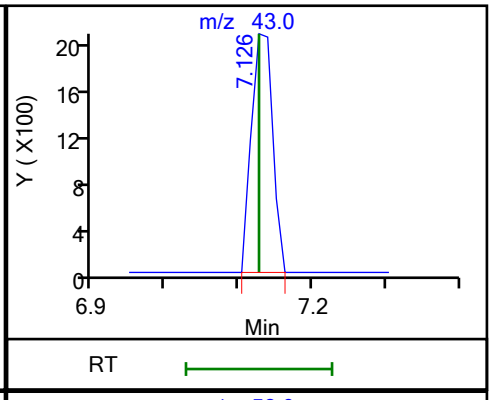
Eurofins TestAmerica, Canton

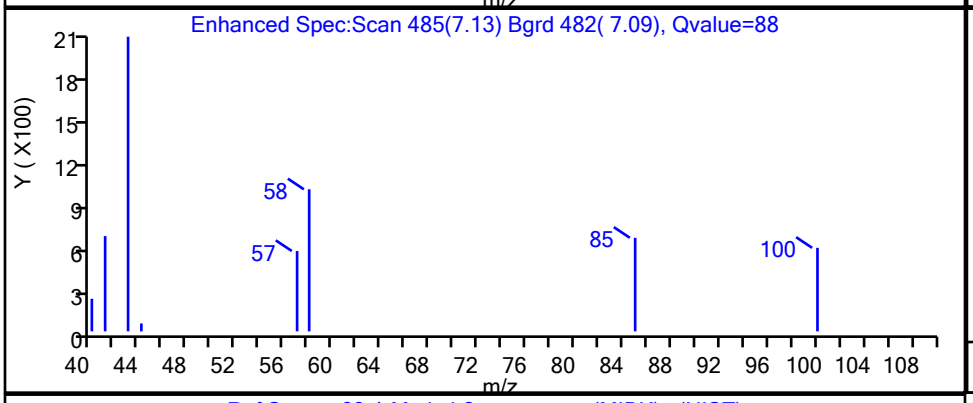
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

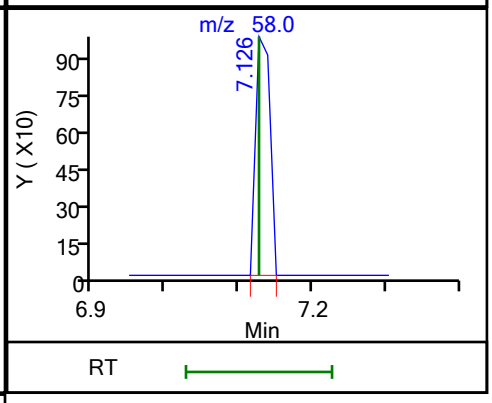
69 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

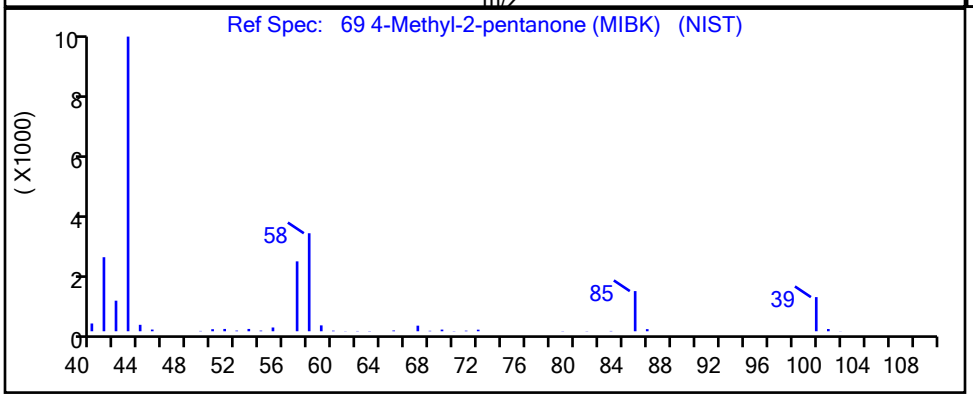
Processing Results











RT	Mass	Response	Amount
7.13	43.00	4165	1.114755
7.13	58.00	1354	

Reviewer: bosworthh, 08-Sep-2020 15:15:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

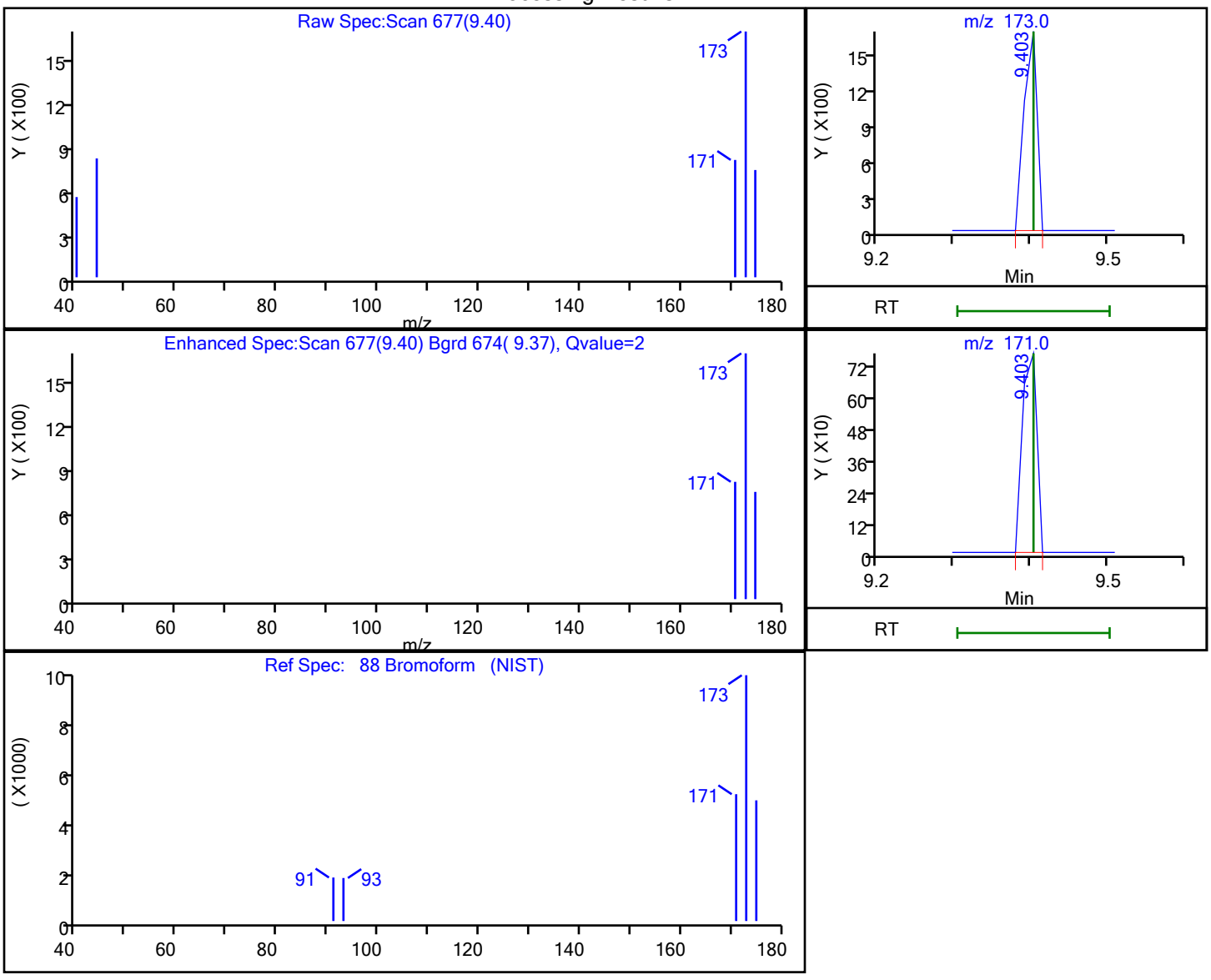
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

88 Bromoform, CAS: 75-25-2

Processing Results



RT	Mass	Response	Amount
9.40	173.00	1894	0.577217
9.40	171.00	1010	

Reviewer: bosworthh, 08-Sep-2020 15:16:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

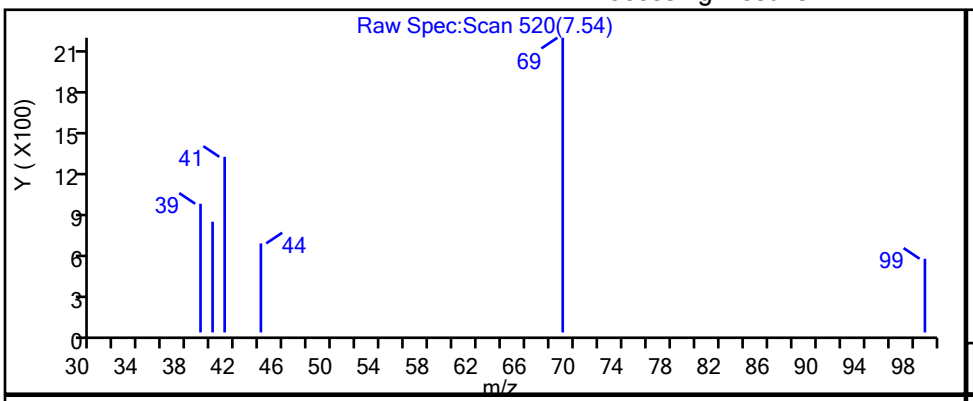
User Disabled Compound Report

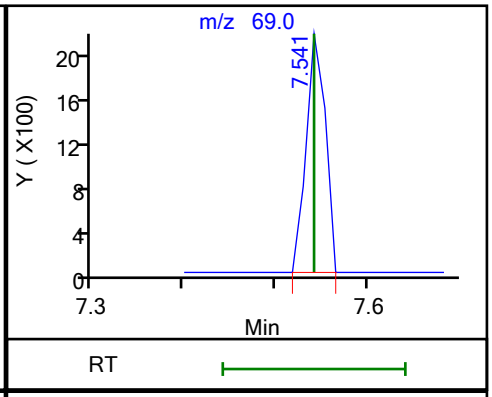
Eurofins TestAmerica, Canton

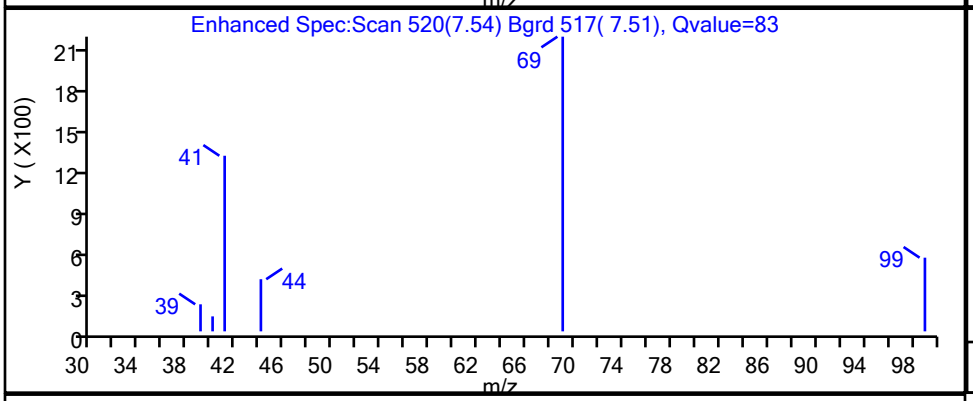
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

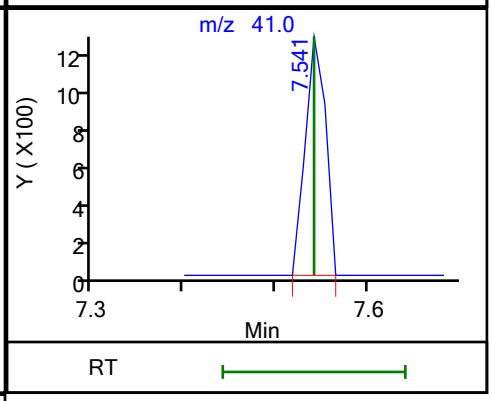
72 Ethyl methacrylate, CAS: 97-63-2

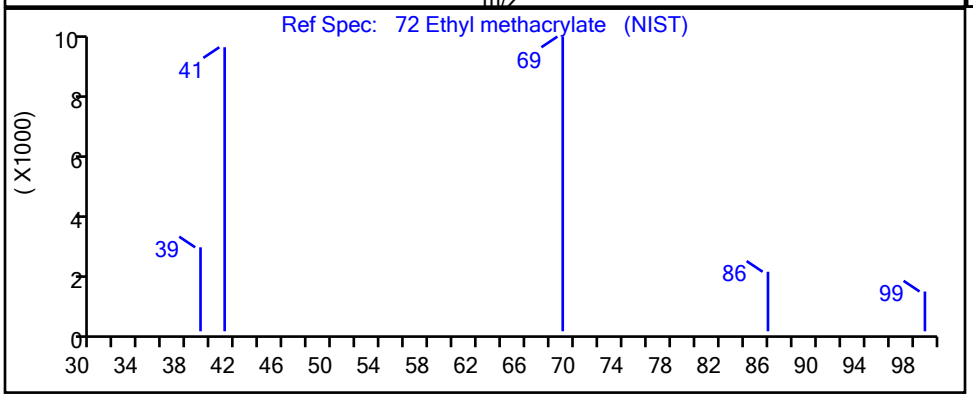
Processing Results











RT	Mass	Response	Amount
7.54	69.00	3132	0.580173
7.54	41.00	1977	

Reviewer: bosworthh, 08-Sep-2020 15:15:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

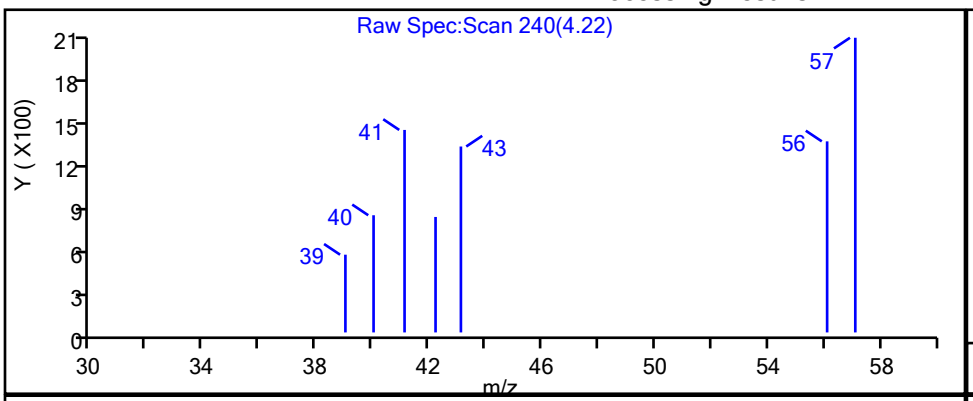
User Disabled Compound Report

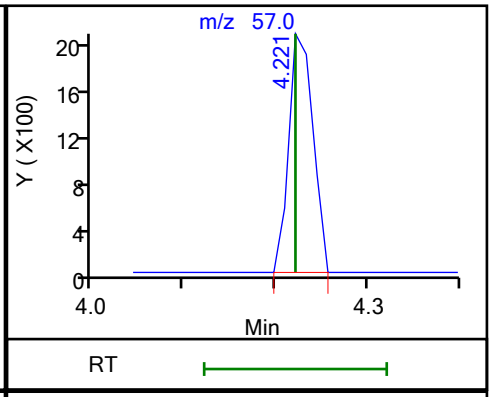
Eurofins TestAmerica, Canton

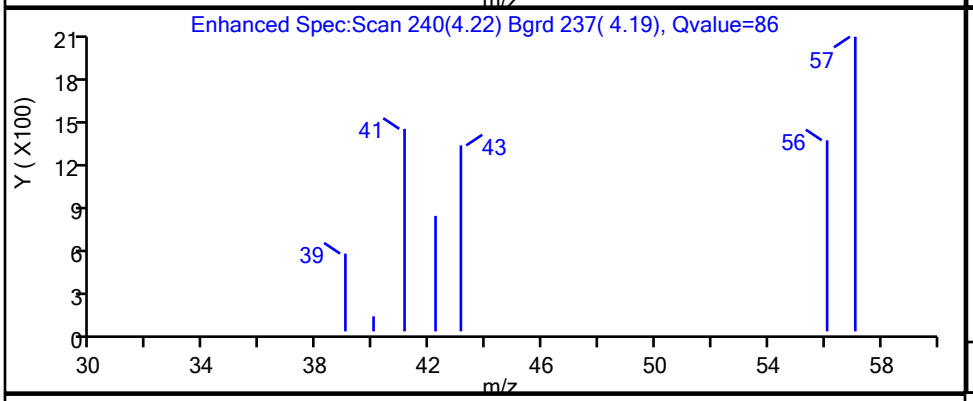
Data File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D				
Injection Date:	08-Sep-2020 14:50:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

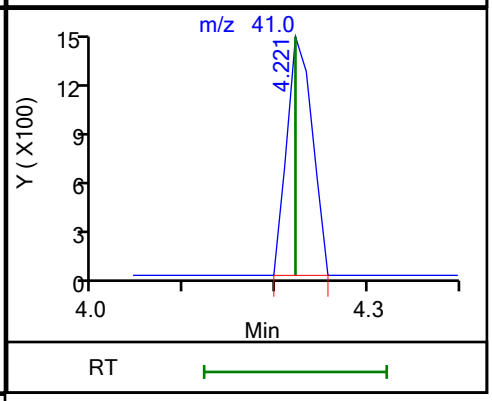
33 Hexane, CAS: 110-54-3

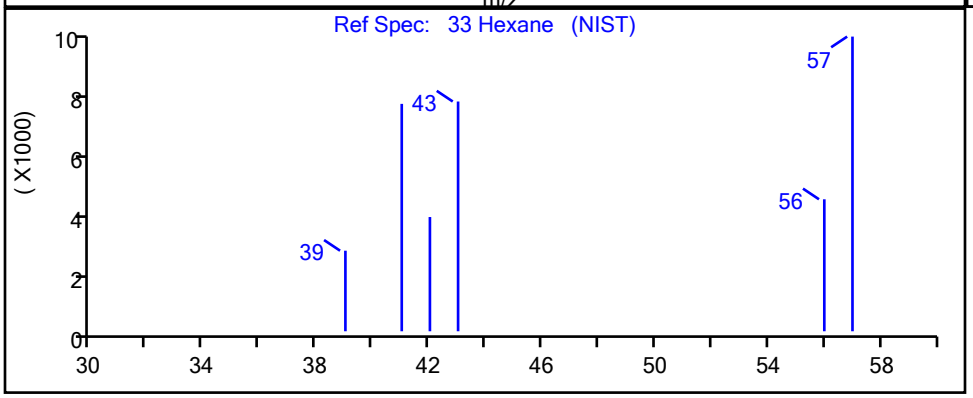
Processing Results











RT	Mass	Response	Amount
4.22	57.00	3803	0.592473
4.22	41.00	2740	

Reviewer: bosworthh, 08-Sep-2020 15:10:41

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

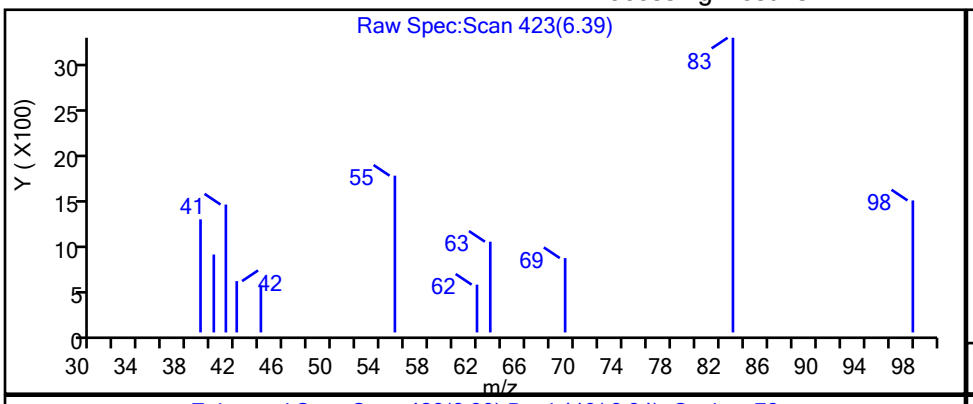
User Disabled Compound Report

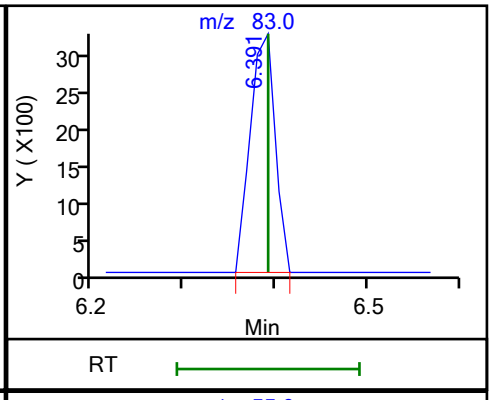
Eurofins TestAmerica, Canton

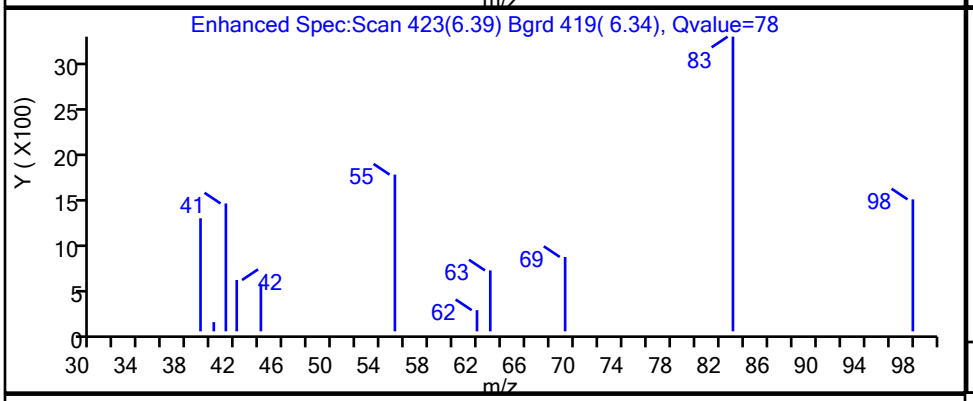
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

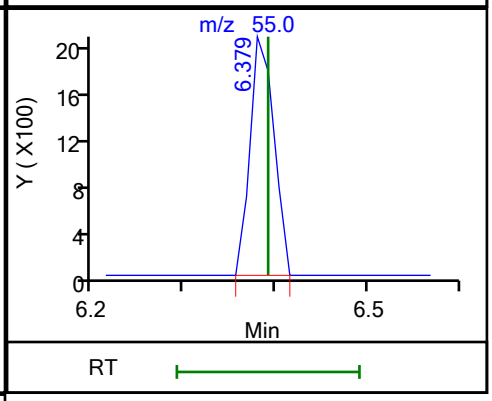
60 Methylcyclohexane, CAS: 108-87-2

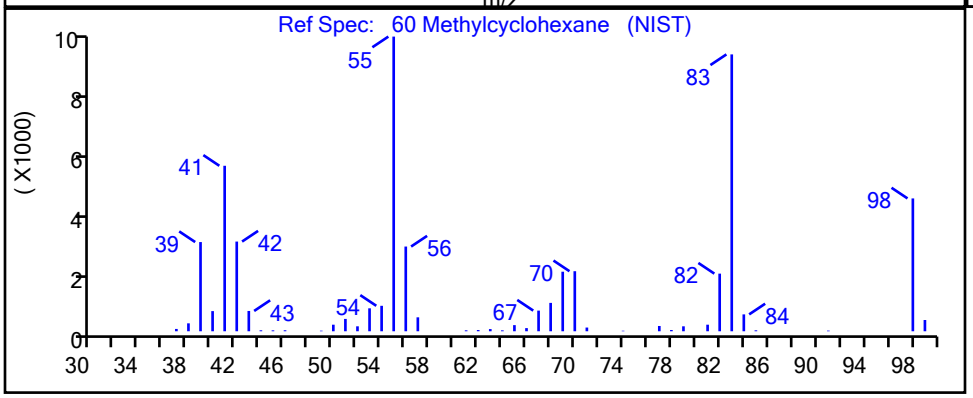
Processing Results











RT	Mass	Response	Amount
6.39	83.00	6134	0.593994
6.38	55.00	3647	

Reviewer: bosworthh, 08-Sep-2020 15:14:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

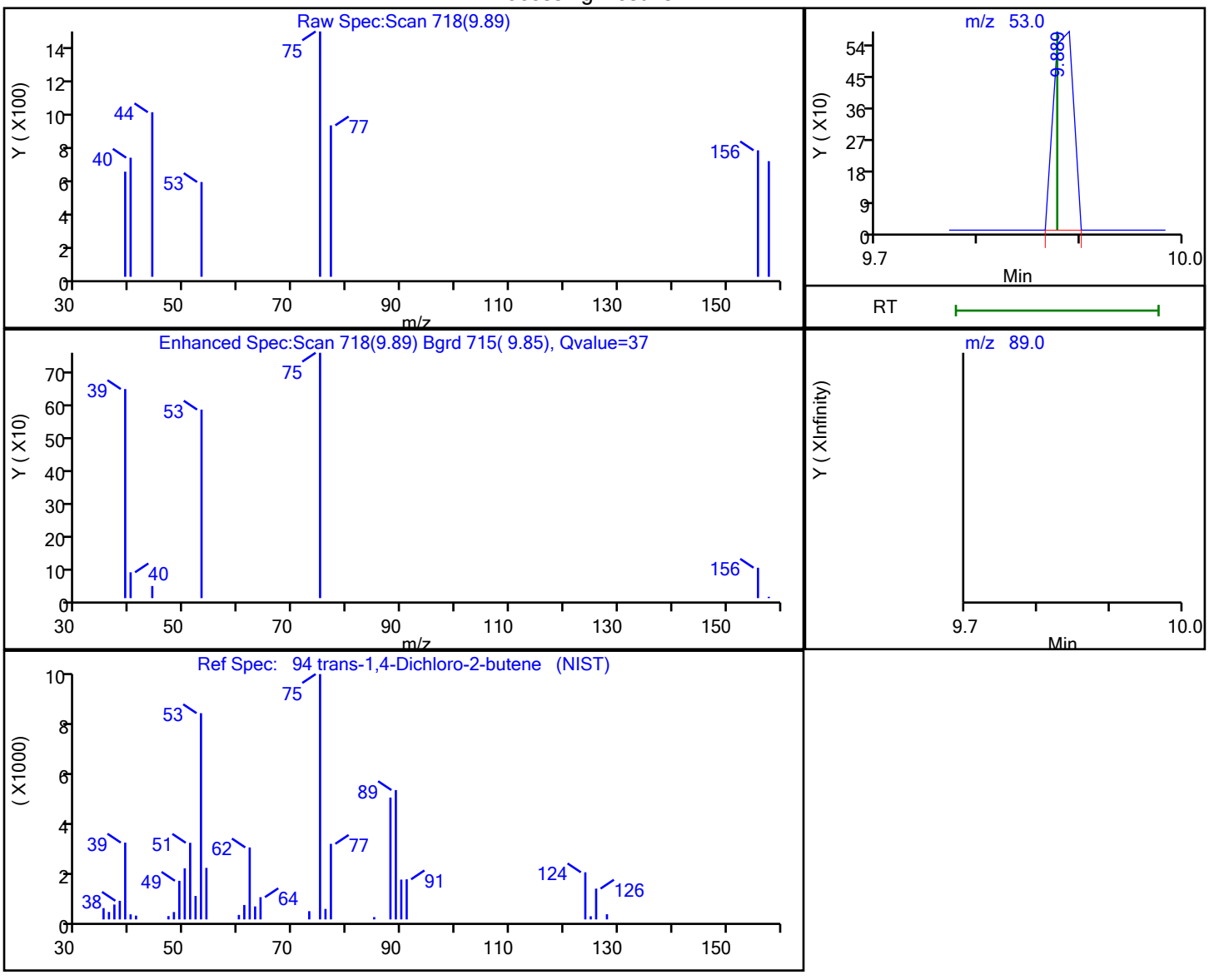
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D
Injection Date: 08-Sep-2020 14:50:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

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

Processing Results



RT	Mass	Response	Amount
9.89	53.00	795	0.487373
9.88	89.00	0	

Reviewer: bosworthh, 08-Sep-2020 15:16:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

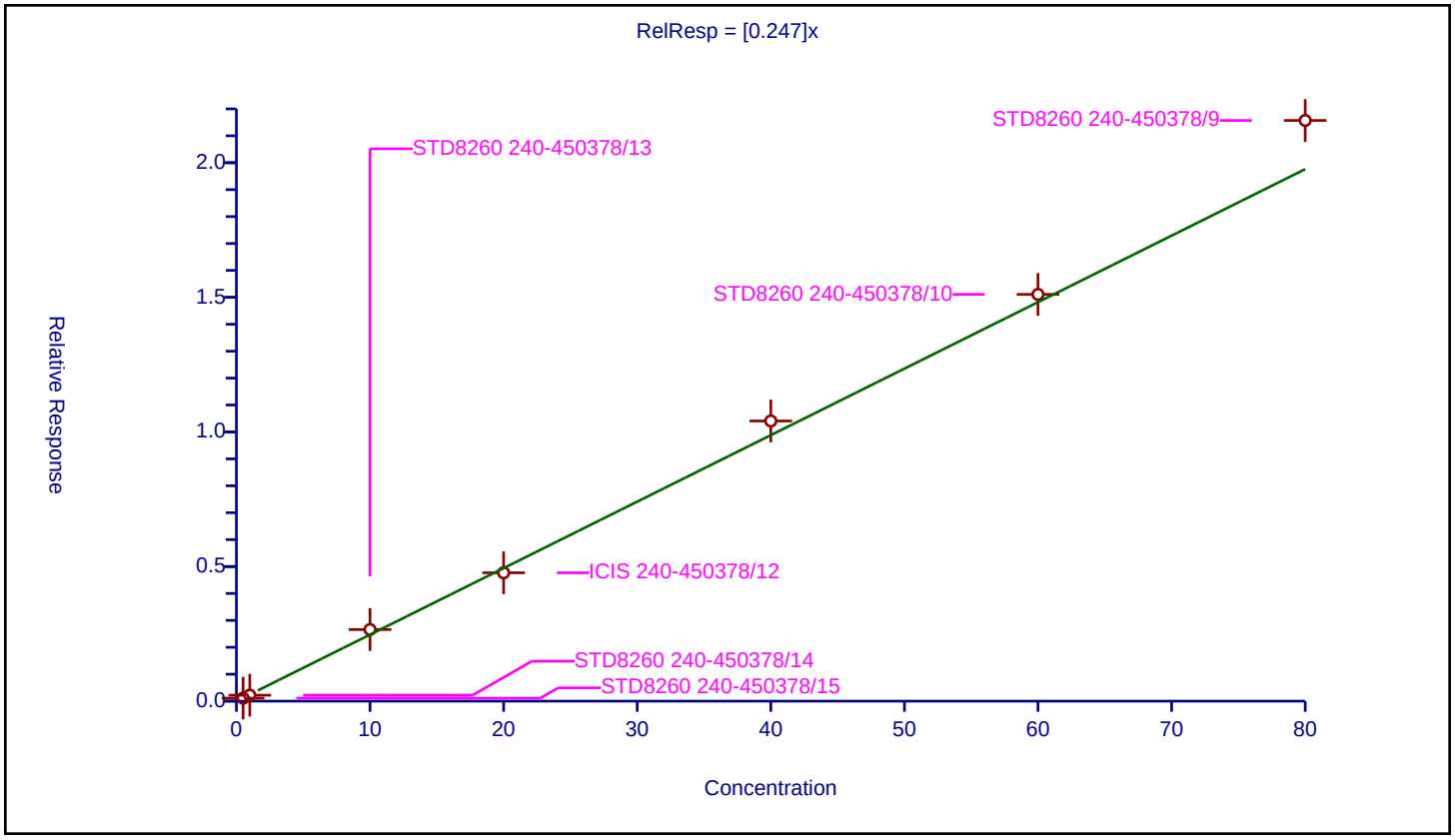
Curve Coefficients

Intercept:	0
Slope:	0.247

Error Coefficients

Standard Error:	590000
Relative Standard Error:	8.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.11088	20.0	841447.0	0.221761	Y
2	STD8260 240-450378/14	1.0	0.221368	20.0	857034.0	0.221368	Y
3	STD8260 240-450378/13	10.0	2.659337	20.0	949906.0	0.265934	Y
4	ICIS 240-450378/12	20.0	4.768425	20.0	955305.0	0.238421	Y
5	STD8260 240-450378/11	40.0	10.406625	20.0	985207.0	0.260166	Y
6	STD8260 240-450378/10	60.0	15.109086	20.0	986335.0	0.251818	Y
7	STD8260 240-450378/9	80.0	21.569973	20.0	1016272.0	0.269625	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

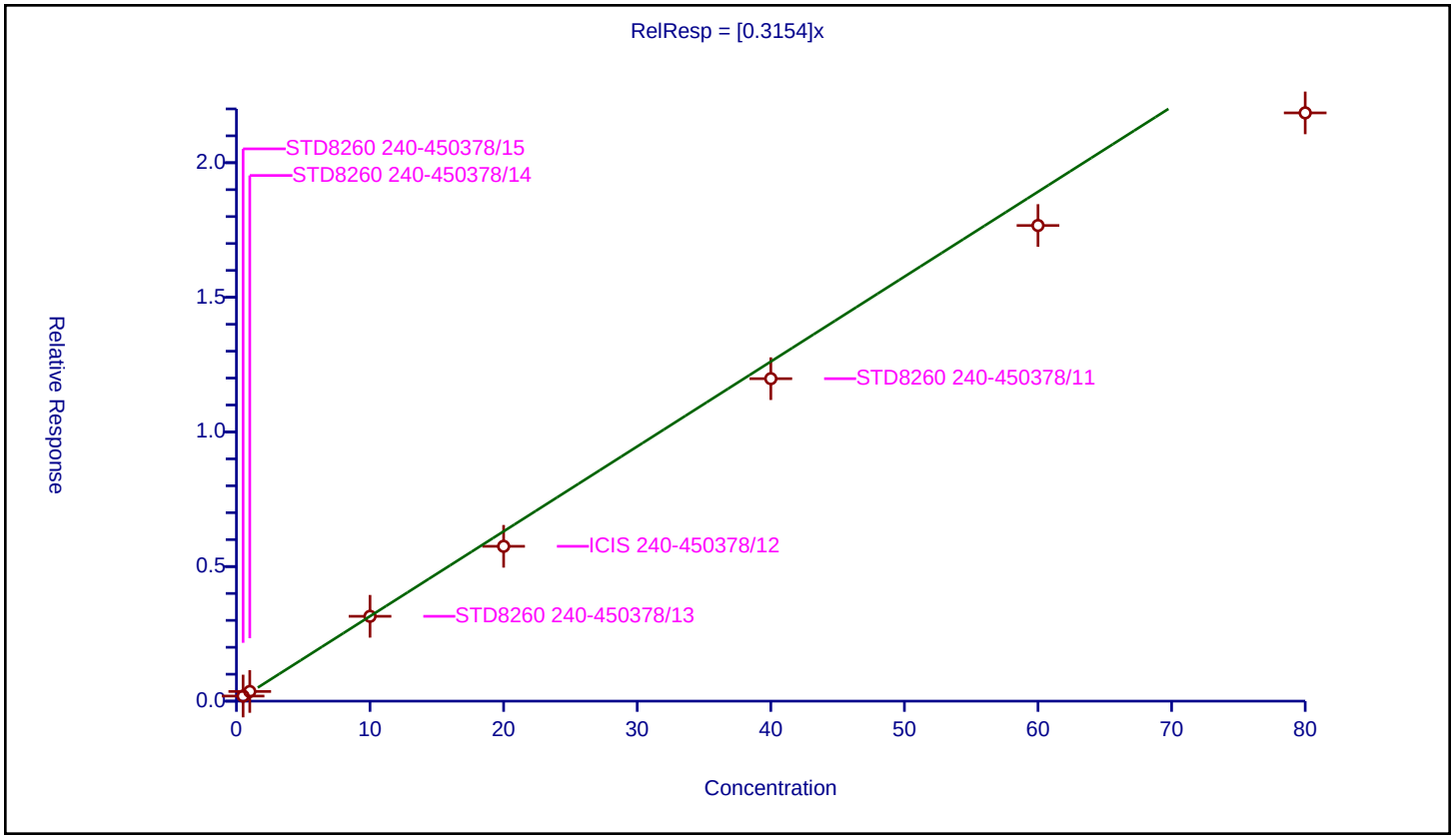
Curve Coefficients

Intercept:	0
Slope:	0.3154

Error Coefficients

Standard Error:	637000
Relative Standard Error:	12.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.189127	20.0	841447.0	0.378253	Y
2	STD8260 240-450378/14	1.0	0.359496	20.0	857034.0	0.359496	Y
3	STD8260 240-450378/13	10.0	3.151154	20.0	949906.0	0.315115	Y
4	ICIS 240-450378/12	20.0	5.751273	20.0	955305.0	0.287564	Y
5	STD8260 240-450378/11	40.0	11.978721	20.0	985207.0	0.299468	Y
6	STD8260 240-450378/10	60.0	17.668662	20.0	986335.0	0.294478	Y
7	STD8260 240-450378/9	80.0	21.851296	20.0	1016272.0	0.273141	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

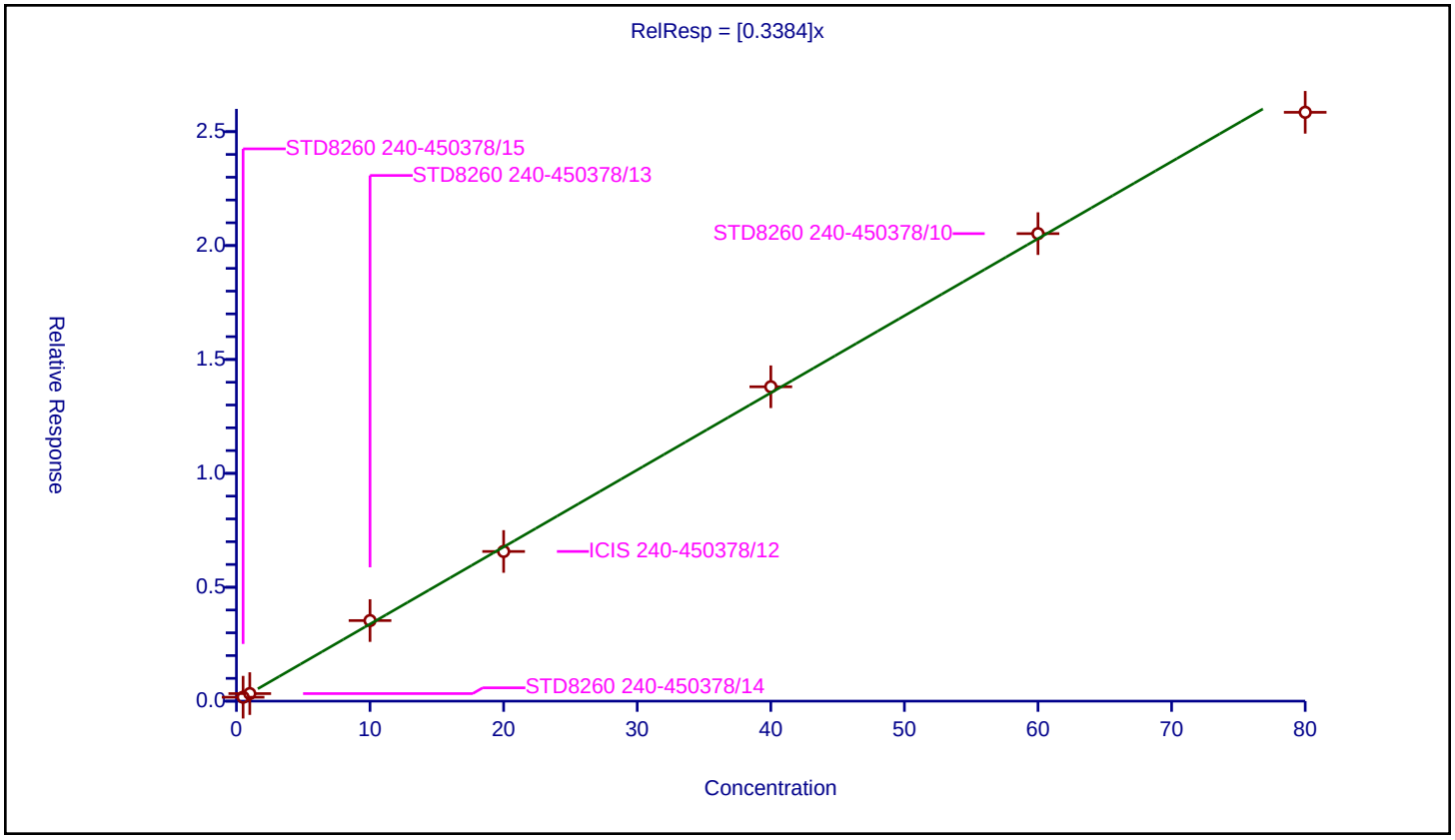
Curve Coefficients

Intercept:	0
Slope:	0.3384

Error Coefficients

Standard Error:	746000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.172037	20.0	841447.0	0.344074	Y
2	STD8260 240-450378/14	1.0	0.331982	20.0	857034.0	0.331982	Y
3	STD8260 240-450378/13	10.0	3.537487	20.0	949906.0	0.353749	Y
4	ICIS 240-450378/12	20.0	6.570928	20.0	955305.0	0.328546	Y
5	STD8260 240-450378/11	40.0	13.801749	20.0	985207.0	0.345044	Y
6	STD8260 240-450378/10	60.0	20.524406	20.0	986335.0	0.342073	Y
7	STD8260 240-450378/9	80.0	25.850442	20.0	1016272.0	0.323131	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

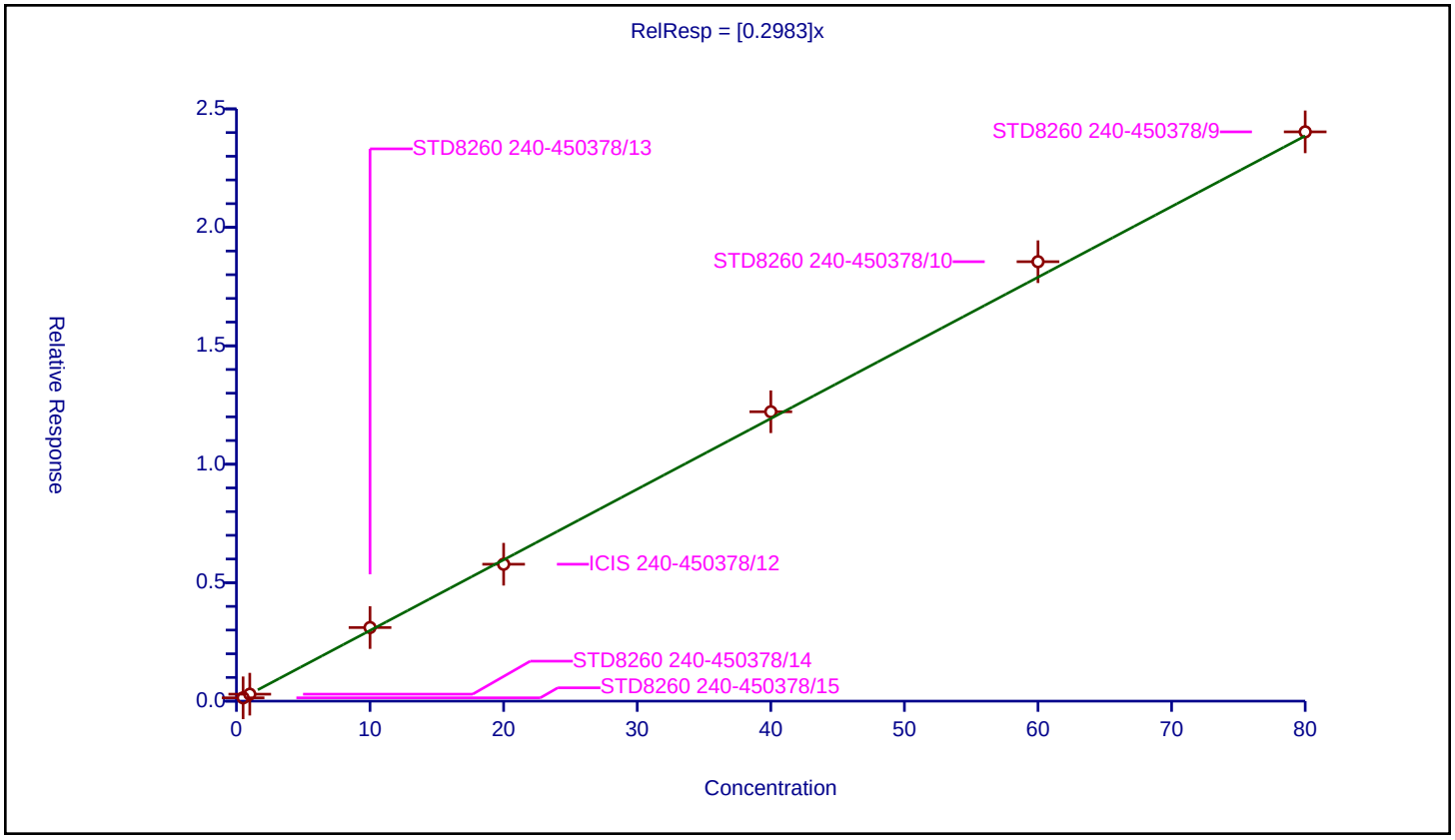
Curve Coefficients

Intercept:	0
Slope:	0.2983

Error Coefficients

Standard Error:	682000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.139783	20.0	841447.0	0.279566	Y
2	STD8260 240-450378/14	1.0	0.293571	20.0	857034.0	0.293571	Y
3	STD8260 240-450378/13	10.0	3.107128	20.0	949906.0	0.310713	Y
4	ICIS 240-450378/12	20.0	5.779599	20.0	955305.0	0.28898	Y
5	STD8260 240-450378/11	40.0	12.215849	20.0	985207.0	0.305396	Y
6	STD8260 240-450378/10	60.0	18.550026	20.0	986335.0	0.309167	Y
7	STD8260 240-450378/9	80.0	24.030574	20.0	1016272.0	0.300382	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

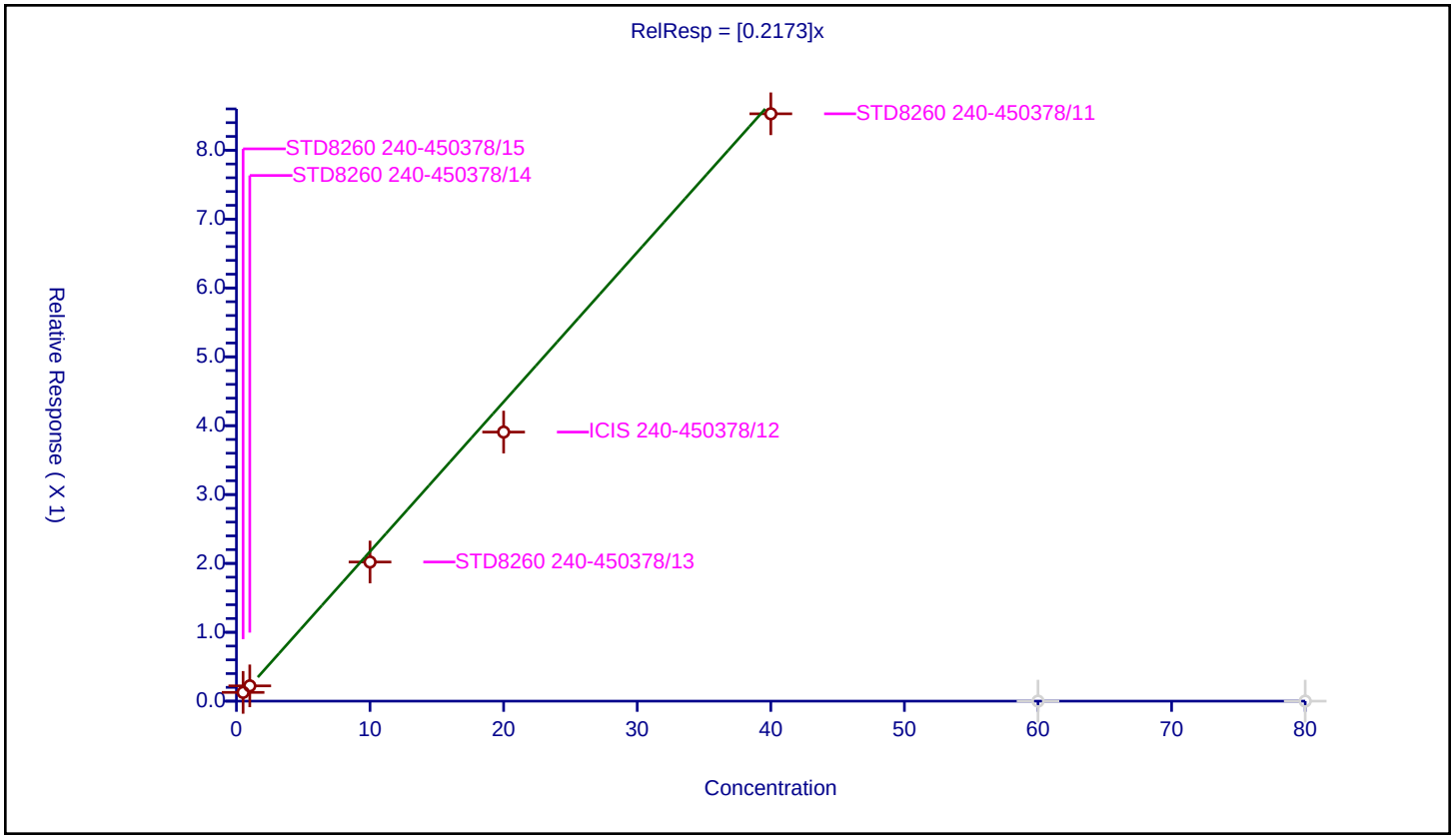
Curve Coefficients

Intercept:	0
Slope:	0.2173

Error Coefficients

Standard Error:	235000
Relative Standard Error:	10.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.127043	20.0	841447.0	0.254086	Y
2	STD8260 240-450378/14	1.0	0.221671	20.0	857034.0	0.221671	Y
3	STD8260 240-450378/13	10.0	2.020263	20.0	949906.0	0.202026	Y
4	ICIS 240-450378/12	20.0	3.907255	20.0	955305.0	0.195363	Y
5	STD8260 240-450378/11	40.0	8.528827	20.0	985207.0	0.213221	Y
6	STD8260 240-450378/10	60.0	0.0	20.0	986335.0	0.0	N
7	STD8260 240-450378/9	80.0	0.0	20.0	1016272.0	0.0	N



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

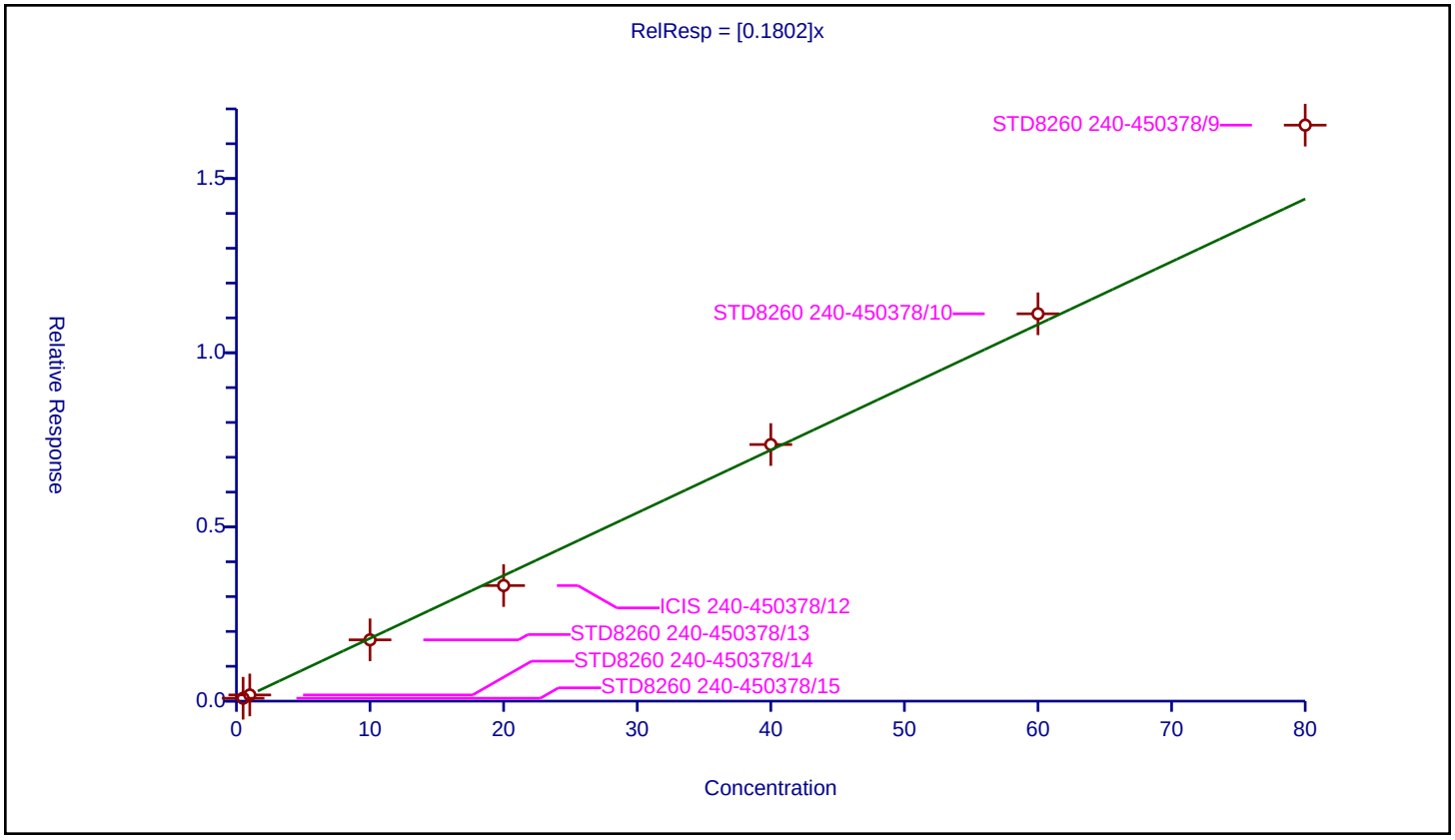
Curve Coefficients

Intercept:	0
Slope:	0.1802

Error Coefficients

Standard Error:	442000
Relative Standard Error:	7.8
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.082762	20.0	841447.0	0.165524	Y
2	STD8260 240-450378/14	1.0	0.177916	20.0	857034.0	0.177916	Y
3	STD8260 240-450378/13	10.0	1.759142	20.0	949906.0	0.175914	Y
4	ICIS 240-450378/12	20.0	3.317956	20.0	955305.0	0.165898	Y
5	STD8260 240-450378/11	40.0	7.365437	20.0	985207.0	0.184136	Y
6	STD8260 240-450378/10	60.0	11.118271	20.0	986335.0	0.185305	Y
7	STD8260 240-450378/9	80.0	16.5339	20.0	1016272.0	0.206674	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

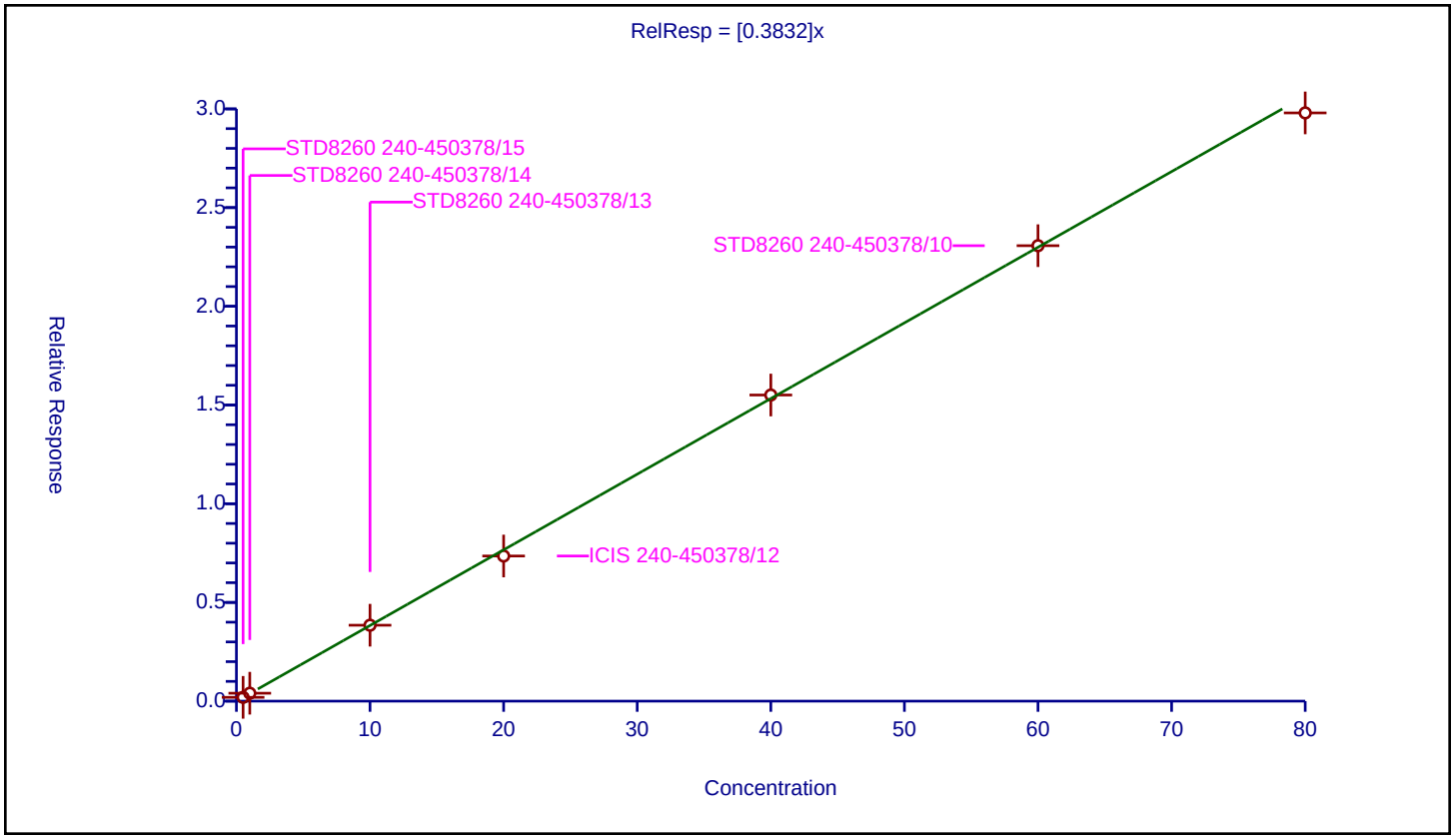
Curve Coefficients

Intercept:	0
Slope:	0.3832

Error Coefficients

Standard Error:	849000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.192288	20.0	841447.0	0.384576	Y
2	STD8260 240-450378/14	1.0	0.400988	20.0	857034.0	0.400988	Y
3	STD8260 240-450378/13	10.0	3.846149	20.0	949906.0	0.384615	Y
4	ICIS 240-450378/12	20.0	7.352291	20.0	955305.0	0.367615	Y
5	STD8260 240-450378/11	40.0	15.505939	20.0	985207.0	0.387648	Y
6	STD8260 240-450378/10	60.0	23.071249	20.0	986335.0	0.384521	Y
7	STD8260 240-450378/9	80.0	29.796747	20.0	1016272.0	0.372459	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

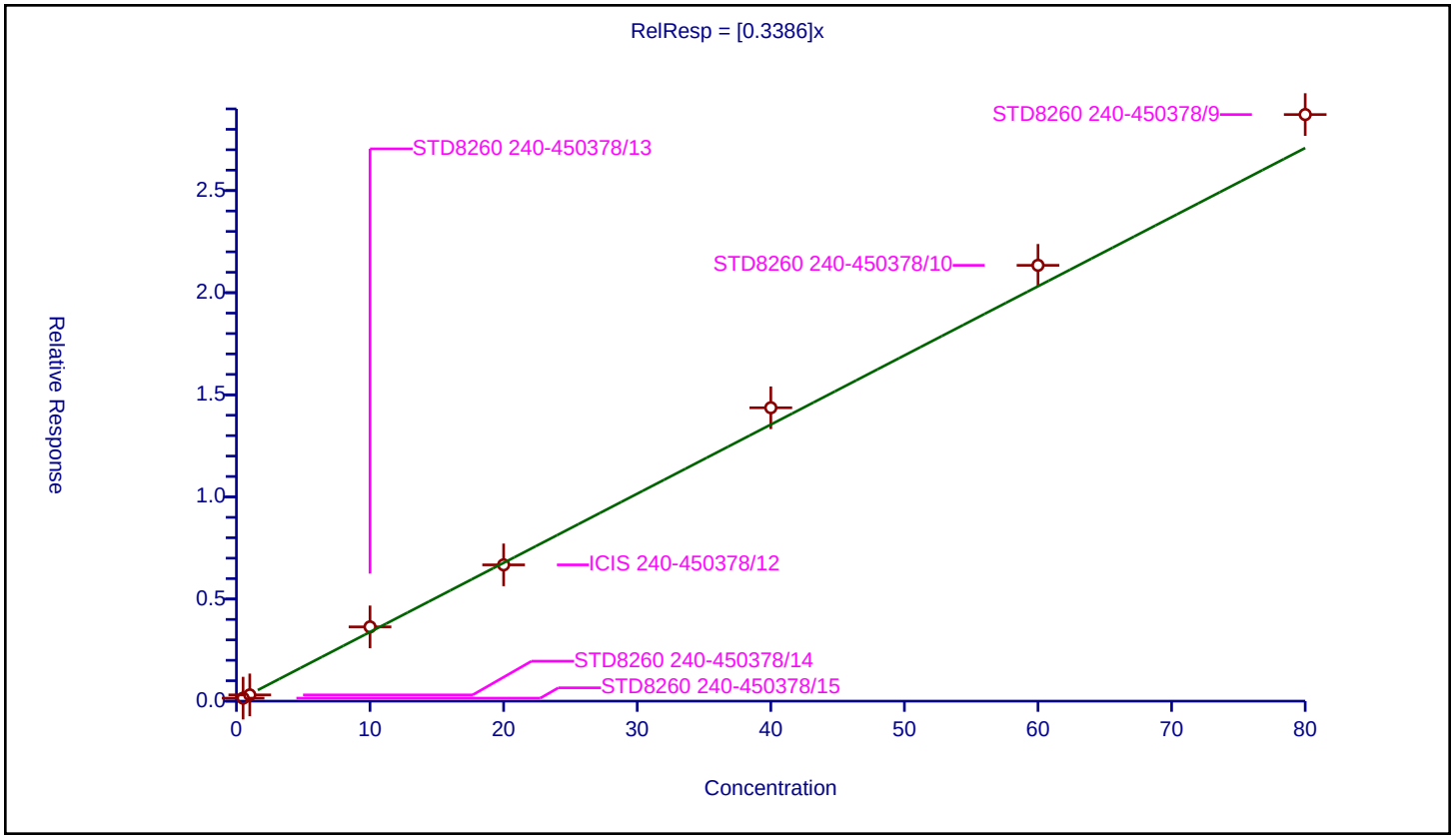
Curve Coefficients

Intercept:	0
Slope:	0.3386

Error Coefficients

Standard Error:	803000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.146486	20.0	841447.0	0.292972	Y
2	STD8260 240-450378/14	1.0	0.305869	20.0	857034.0	0.305869	Y
3	STD8260 240-450378/13	10.0	3.636697	20.0	949906.0	0.36367	Y
4	ICIS 240-450378/12	20.0	6.672864	20.0	955305.0	0.333643	Y
5	STD8260 240-450378/11	40.0	14.366199	20.0	985207.0	0.359155	Y
6	STD8260 240-450378/10	60.0	21.341268	20.0	986335.0	0.355688	Y
7	STD8260 240-450378/9	80.0	28.72172	20.0	1016272.0	0.359022	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

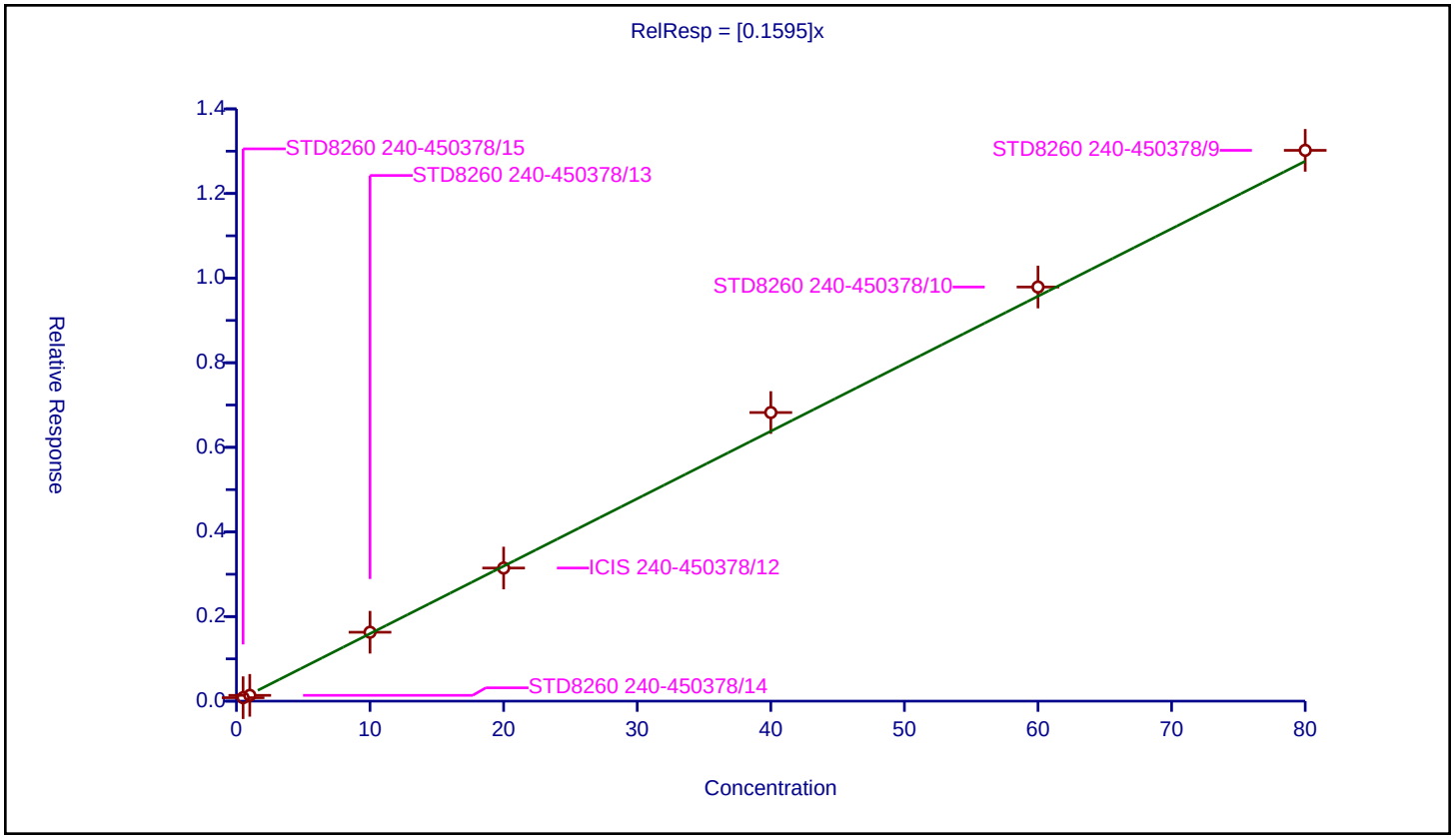
Curve Coefficients

Intercept:	0
Slope:	0.1595

Error Coefficients

Standard Error:	368000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.081574	20.0	841447.0	0.163148	Y
2	STD8260 240-450378/14	1.0	0.136891	20.0	857034.0	0.136891	Y
3	STD8260 240-450378/13	10.0	1.629088	20.0	949906.0	0.162909	Y
4	ICIS 240-450378/12	20.0	3.14666	20.0	955305.0	0.157333	Y
5	STD8260 240-450378/11	40.0	6.822749	20.0	985207.0	0.170569	Y
6	STD8260 240-450378/10	60.0	9.789088	20.0	986335.0	0.163151	Y
7	STD8260 240-450378/9	80.0	13.020097	20.0	1016272.0	0.162751	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

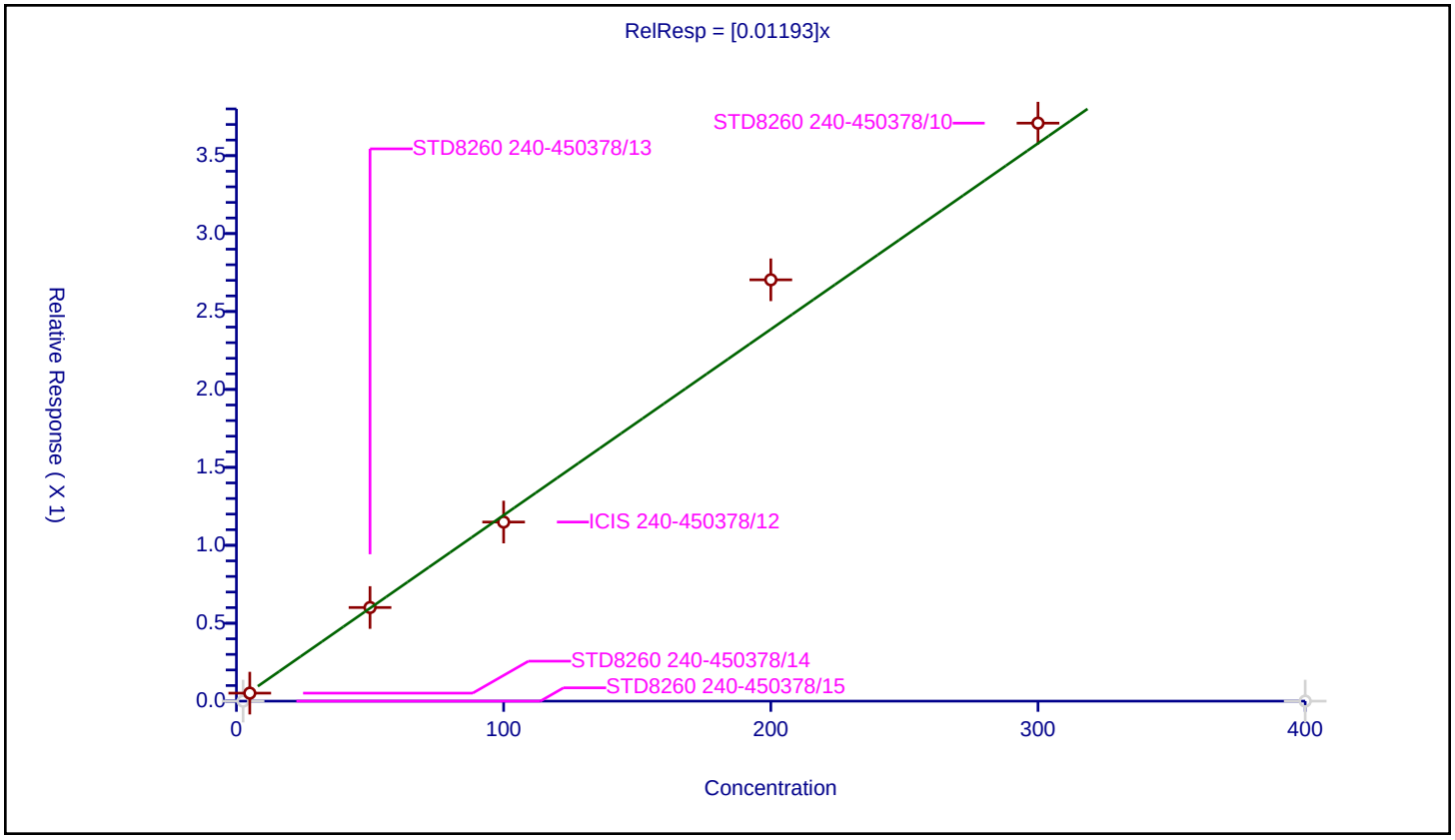
Curve Coefficients

Intercept:	0
Slope:	0.01193

Error Coefficients

Standard Error:	117000
Relative Standard Error:	10.0
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	2.5	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	5.0	0.051317	20.0	857034.0	0.010263	Y
3	STD8260 240-450378/13	50.0	0.600691	20.0	949906.0	0.012014	Y
4	ICIS 240-450378/12	100.0	1.149183	20.0	955305.0	0.011492	Y
5	STD8260 240-450378/11	200.0	2.703472	20.0	985207.0	0.013517	Y
6	STD8260 240-450378/10	300.0	3.708517	20.0	986335.0	0.012362	Y
7	STD8260 240-450378/9	400.0	0.0	20.0	1016272.0	0.0	N



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

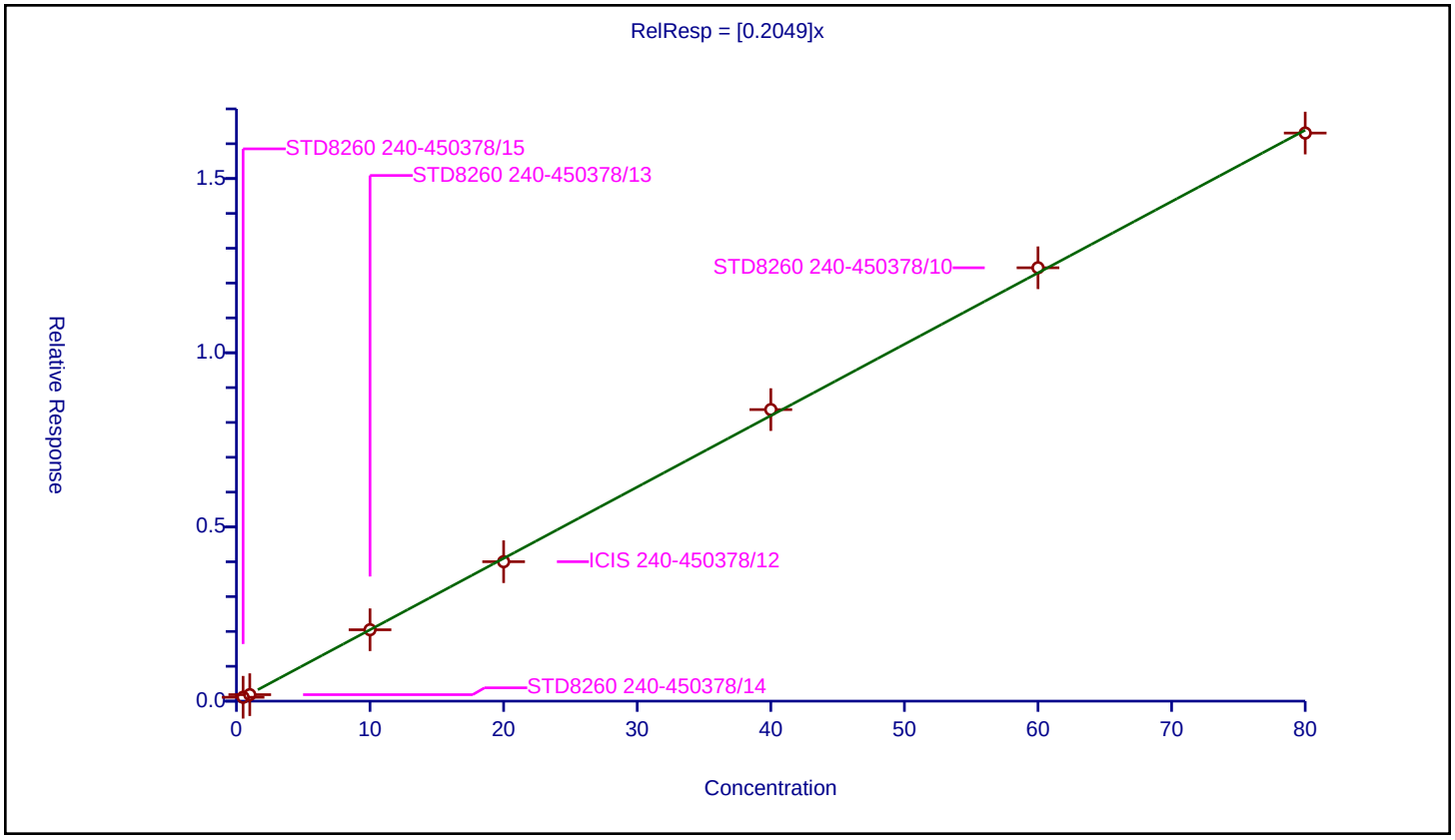
Curve Coefficients

Intercept:	0
Slope:	0.2049

Error Coefficients

Standard Error:	462000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.111118	20.0	841447.0	0.222236	Y
2	STD8260 240-450378/14	1.0	0.18648	20.0	857034.0	0.18648	Y
3	STD8260 240-450378/13	10.0	2.049298	20.0	949906.0	0.20493	Y
4	ICIS 240-450378/12	20.0	4.002533	20.0	955305.0	0.200127	Y
5	STD8260 240-450378/11	40.0	8.368455	20.0	985207.0	0.209211	Y
6	STD8260 240-450378/10	60.0	12.439486	20.0	986335.0	0.207325	Y
7	STD8260 240-450378/9	80.0	16.306501	20.0	1016272.0	0.203831	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

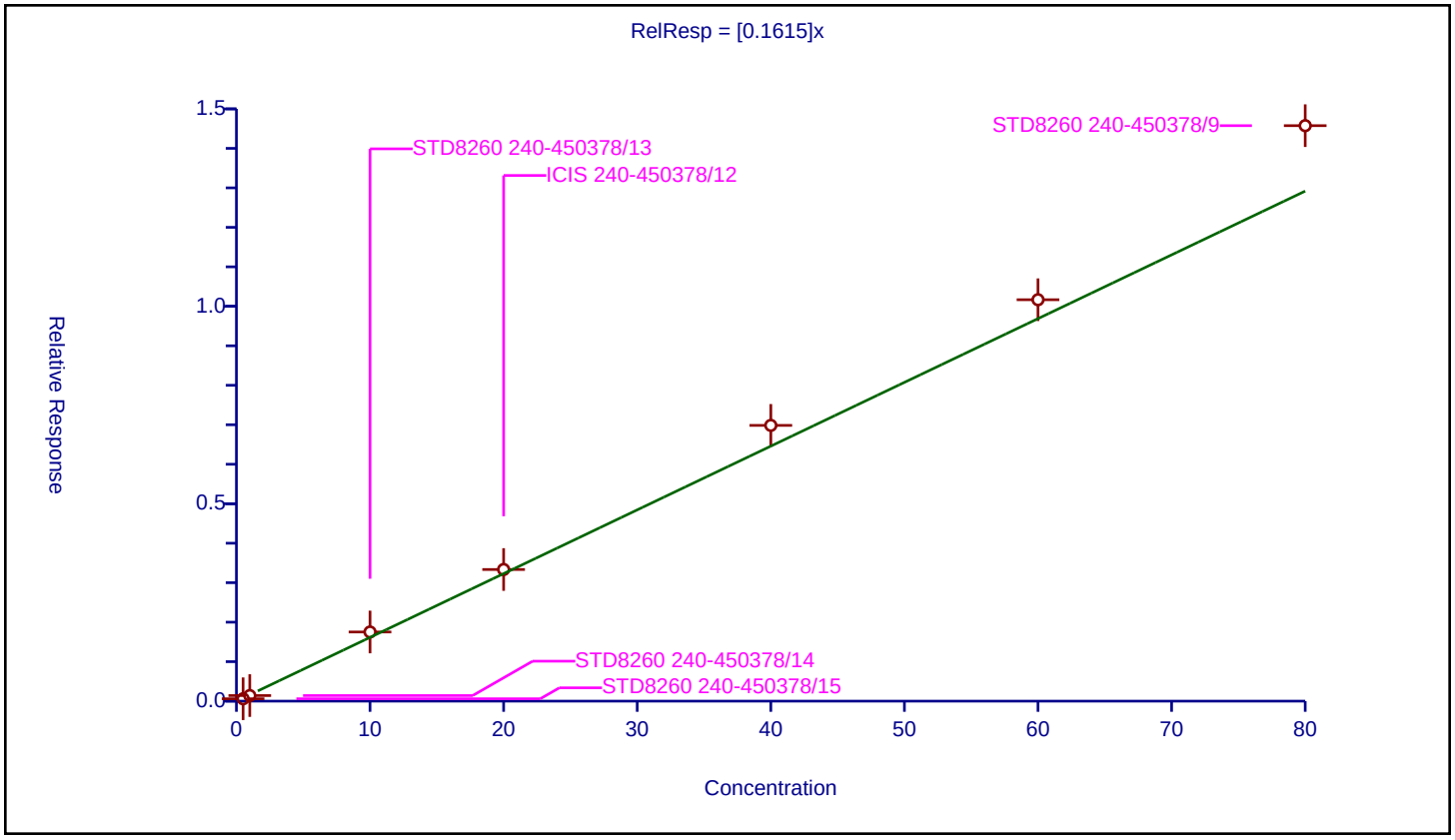
Curve Coefficients

Intercept:	0
Slope:	0.1615

Error Coefficients

Standard Error:	398000
Relative Standard Error:	13.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.06042	20.0	841447.0	0.120839	Y
2	STD8260 240-450378/14	1.0	0.141301	20.0	857034.0	0.141301	Y
3	STD8260 240-450378/13	10.0	1.751836	20.0	949906.0	0.175184	Y
4	ICIS 240-450378/12	20.0	3.334202	20.0	955305.0	0.16671	Y
5	STD8260 240-450378/11	40.0	6.984258	20.0	985207.0	0.174606	Y
6	STD8260 240-450378/10	60.0	10.166586	20.0	986335.0	0.169443	Y
7	STD8260 240-450378/9	80.0	14.575035	20.0	1016272.0	0.182188	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

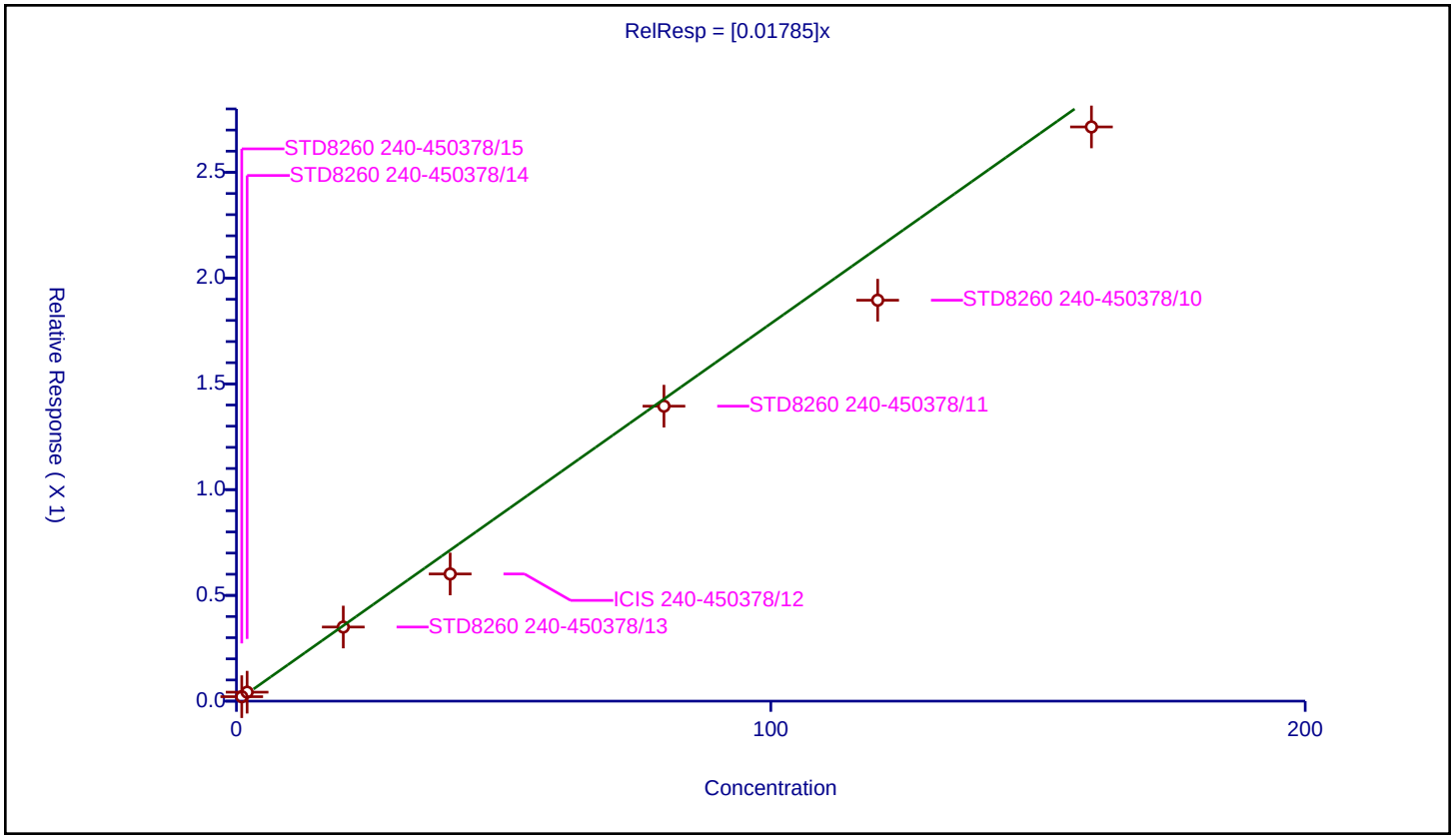
Curve Coefficients

Intercept:	0
Slope:	0.01785

Error Coefficients

Standard Error:	74800
Relative Standard Error:	13.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.021035	20.0	841447.0	0.021035	Y
2	STD8260 240-450378/14	2.0	0.042332	20.0	857034.0	0.021166	Y
3	STD8260 240-450378/13	20.0	0.350329	20.0	949906.0	0.017516	Y
4	ICIS 240-450378/12	40.0	0.601379	20.0	955305.0	0.015034	Y
5	STD8260 240-450378/11	80.0	1.39459	20.0	985207.0	0.017432	Y
6	STD8260 240-450378/10	120.0	1.895543	20.0	986335.0	0.015796	Y
7	STD8260 240-450378/9	160.0	2.714805	20.0	1016272.0	0.016968	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

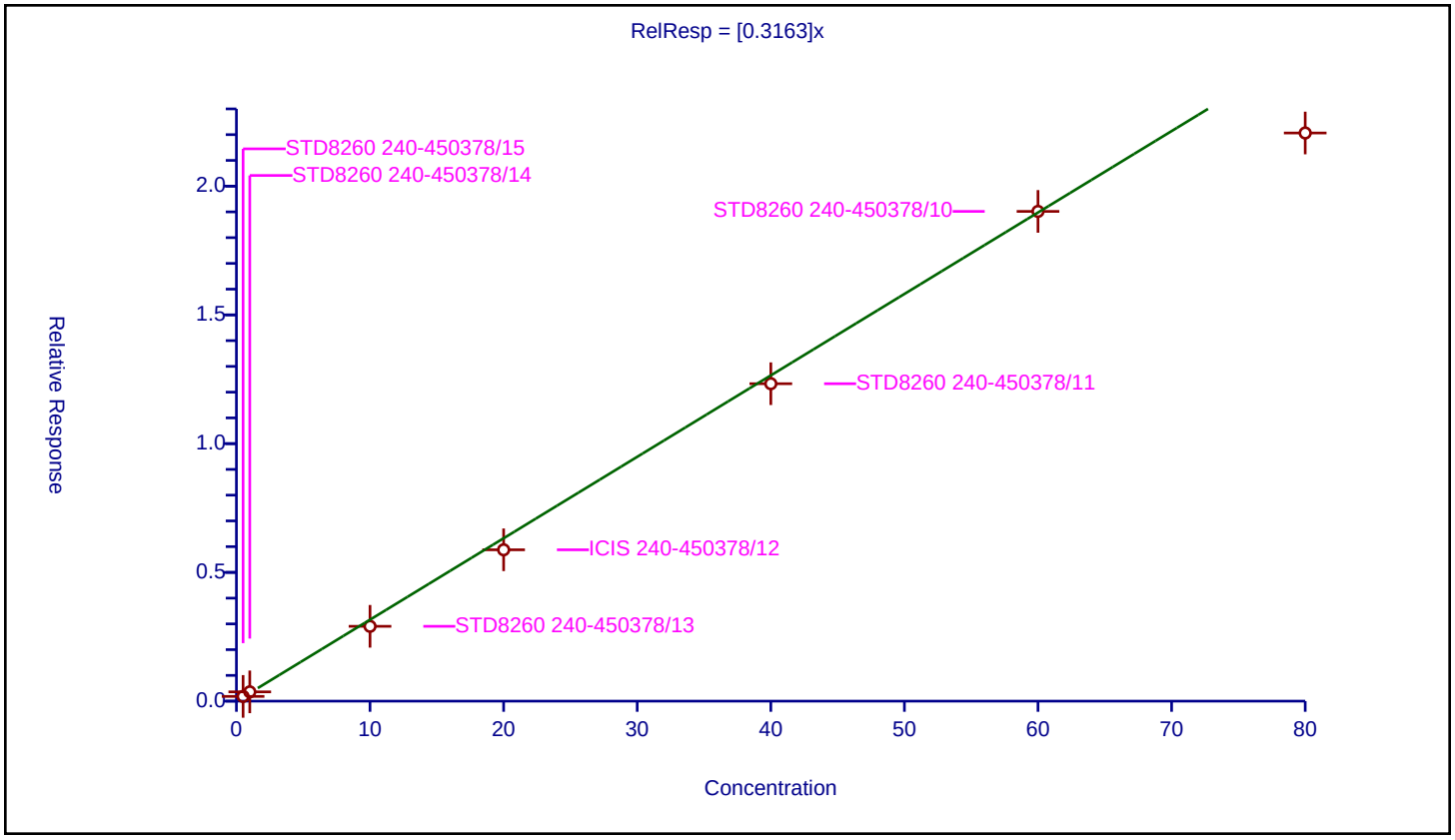
Curve Coefficients

Intercept:	0
Slope:	0.3163

Error Coefficients

Standard Error:	659000
Relative Standard Error:	11.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.183898	20.0	841447.0	0.367795	Y
2	STD8260 240-450378/14	1.0	0.360639	20.0	857034.0	0.360639	Y
3	STD8260 240-450378/13	10.0	2.905487	20.0	949906.0	0.290549	Y
4	ICIS 240-450378/12	20.0	5.877474	20.0	955305.0	0.293874	Y
5	STD8260 240-450378/11	40.0	12.327541	20.0	985207.0	0.308189	Y
6	STD8260 240-450378/10	60.0	19.018812	20.0	986335.0	0.31698	Y
7	STD8260 240-450378/9	80.0	22.063522	20.0	1016272.0	0.275794	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

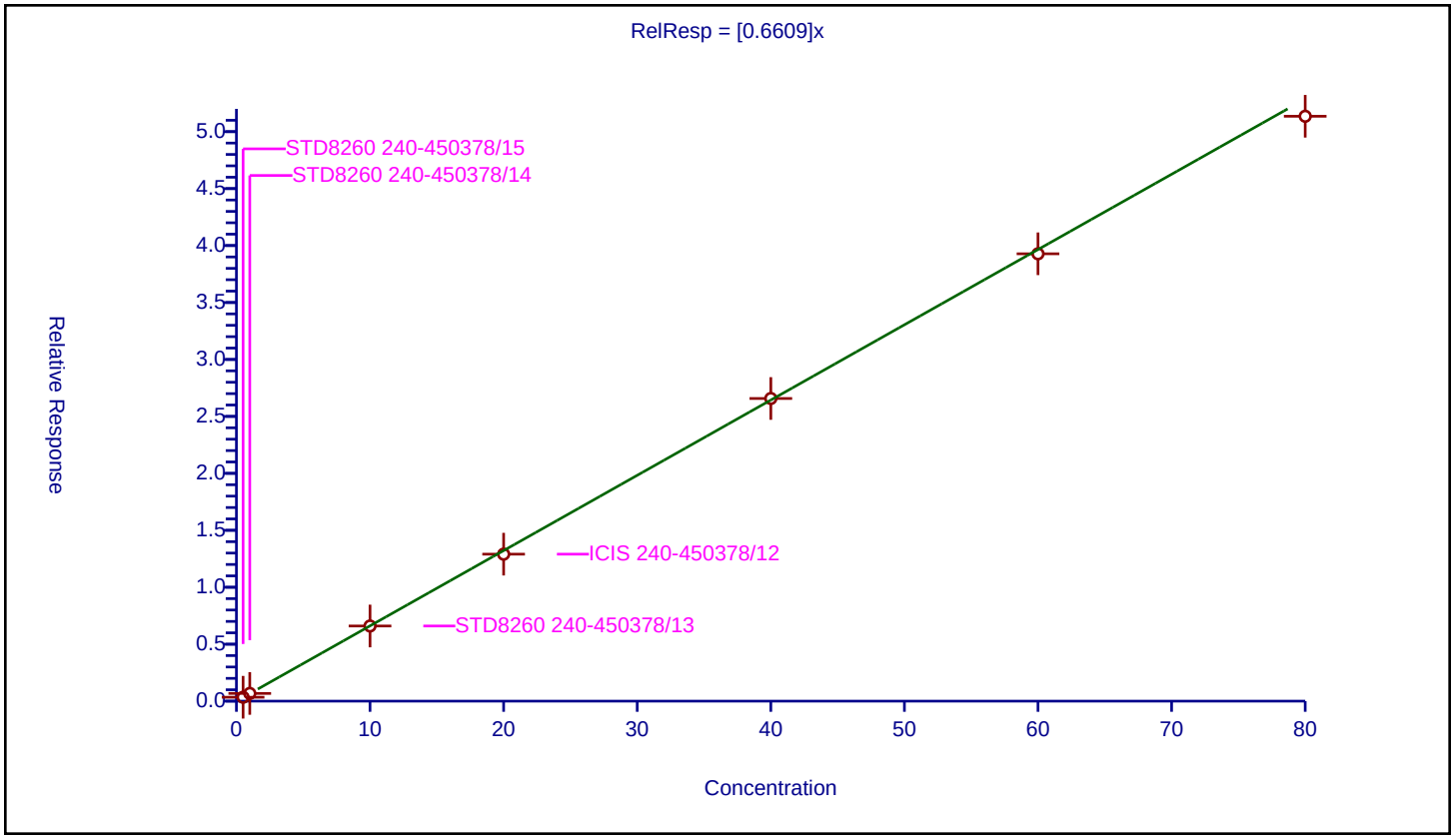
Curve Coefficients

Intercept:	0
Slope:	0.6609

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.341911	20.0	841447.0	0.683822	Y
2	STD8260 240-450378/14	1.0	0.676426	20.0	857034.0	0.676426	Y
3	STD8260 240-450378/13	10.0	6.598337	20.0	949906.0	0.659834	Y
4	ICIS 240-450378/12	20.0	12.904465	20.0	955305.0	0.645223	Y
5	STD8260 240-450378/11	40.0	26.57271	20.0	985207.0	0.664318	Y
6	STD8260 240-450378/10	60.0	39.277872	20.0	986335.0	0.654631	Y
7	STD8260 240-450378/9	80.0	51.353102	20.0	1016272.0	0.641914	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

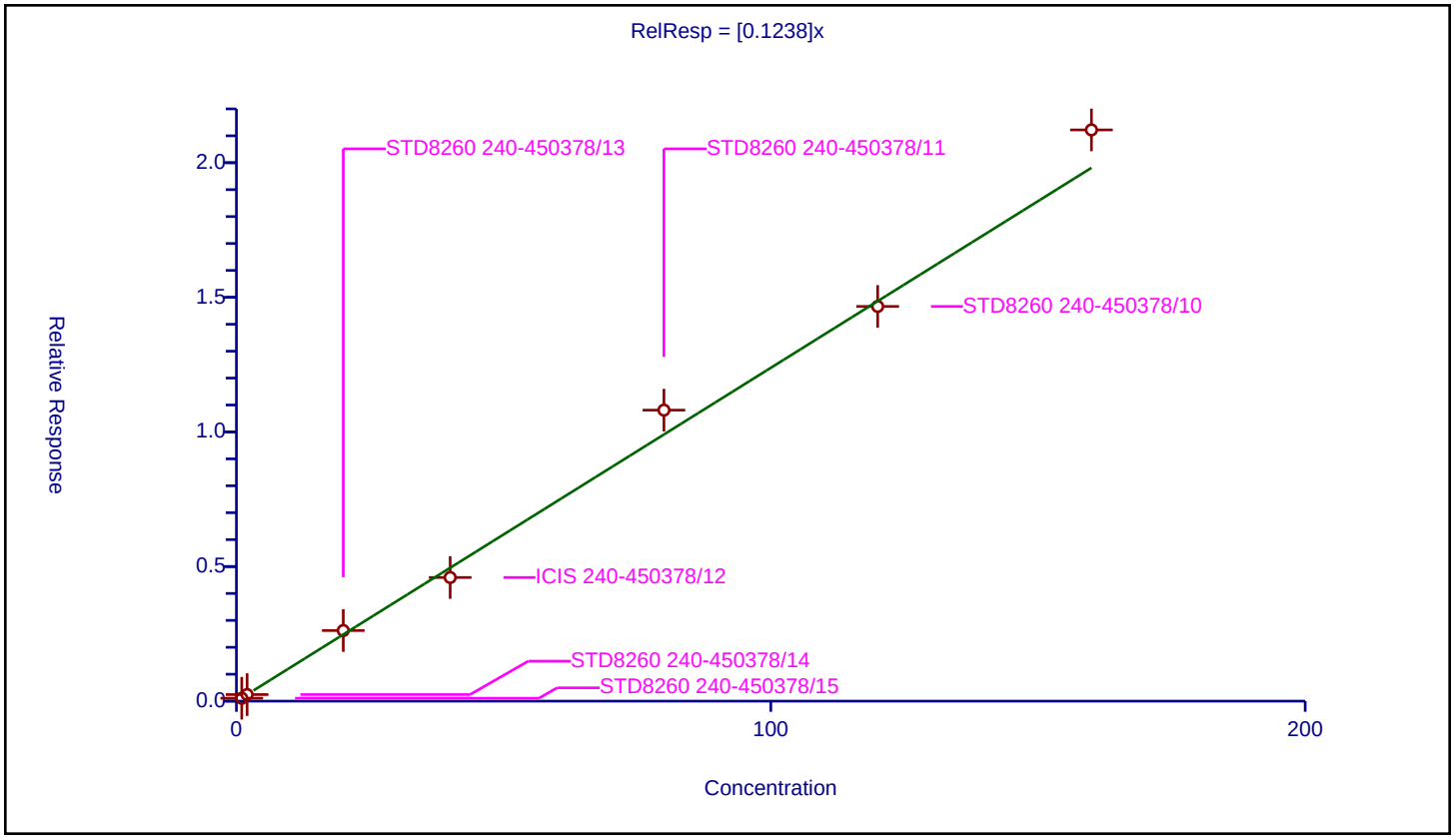
Curve Coefficients

Intercept:	0
Slope:	0.1238

Error Coefficients

Standard Error:	582000
Relative Standard Error:	7.9
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.108694	20.0	841447.0	0.108694	Y
2	STD8260 240-450378/14	2.0	0.244284	20.0	857034.0	0.122142	Y
3	STD8260 240-450378/13	20.0	2.622975	20.0	949906.0	0.131149	Y
4	ICIS 240-450378/12	40.0	4.592648	20.0	955305.0	0.114816	Y
5	STD8260 240-450378/11	80.0	10.810419	20.0	985207.0	0.13513	Y
6	STD8260 240-450378/10	120.0	14.661469	20.0	986335.0	0.122179	Y
7	STD8260 240-450378/9	160.0	21.218493	20.0	1016272.0	0.132616	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

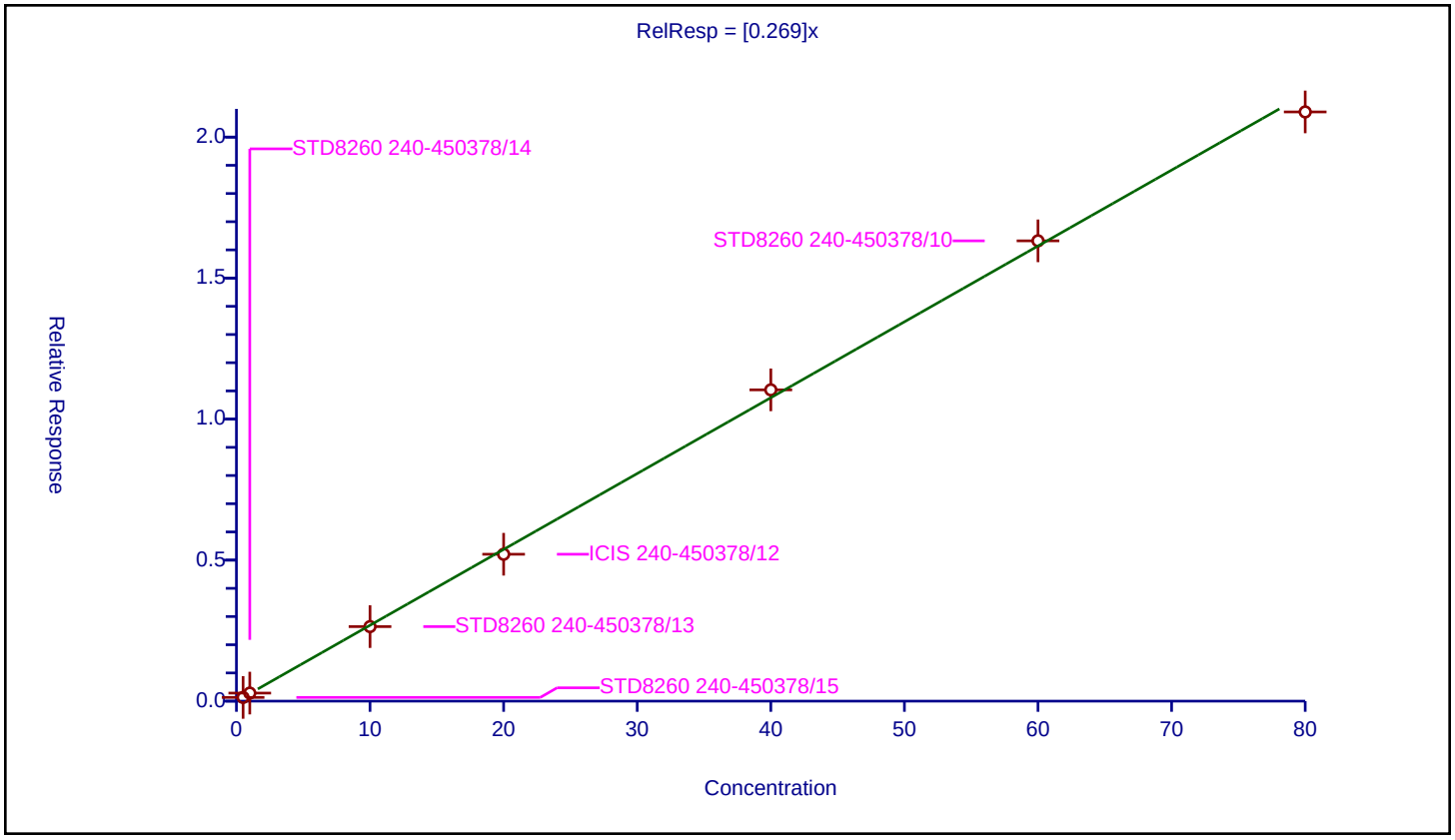
Curve Coefficients

Intercept:	0
Slope:	0.269

Error Coefficients

Standard Error:	598000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.13163	20.0	841447.0	0.263261	Y
2	STD8260 240-450378/14	1.0	0.285846	20.0	857034.0	0.285846	Y
3	STD8260 240-450378/13	10.0	2.642914	20.0	949906.0	0.264291	Y
4	ICIS 240-450378/12	20.0	5.208452	20.0	955305.0	0.260423	Y
5	STD8260 240-450378/11	40.0	11.037559	20.0	985207.0	0.275939	Y
6	STD8260 240-450378/10	60.0	16.321878	20.0	986335.0	0.272031	Y
7	STD8260 240-450378/9	80.0	20.892241	20.0	1016272.0	0.261153	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

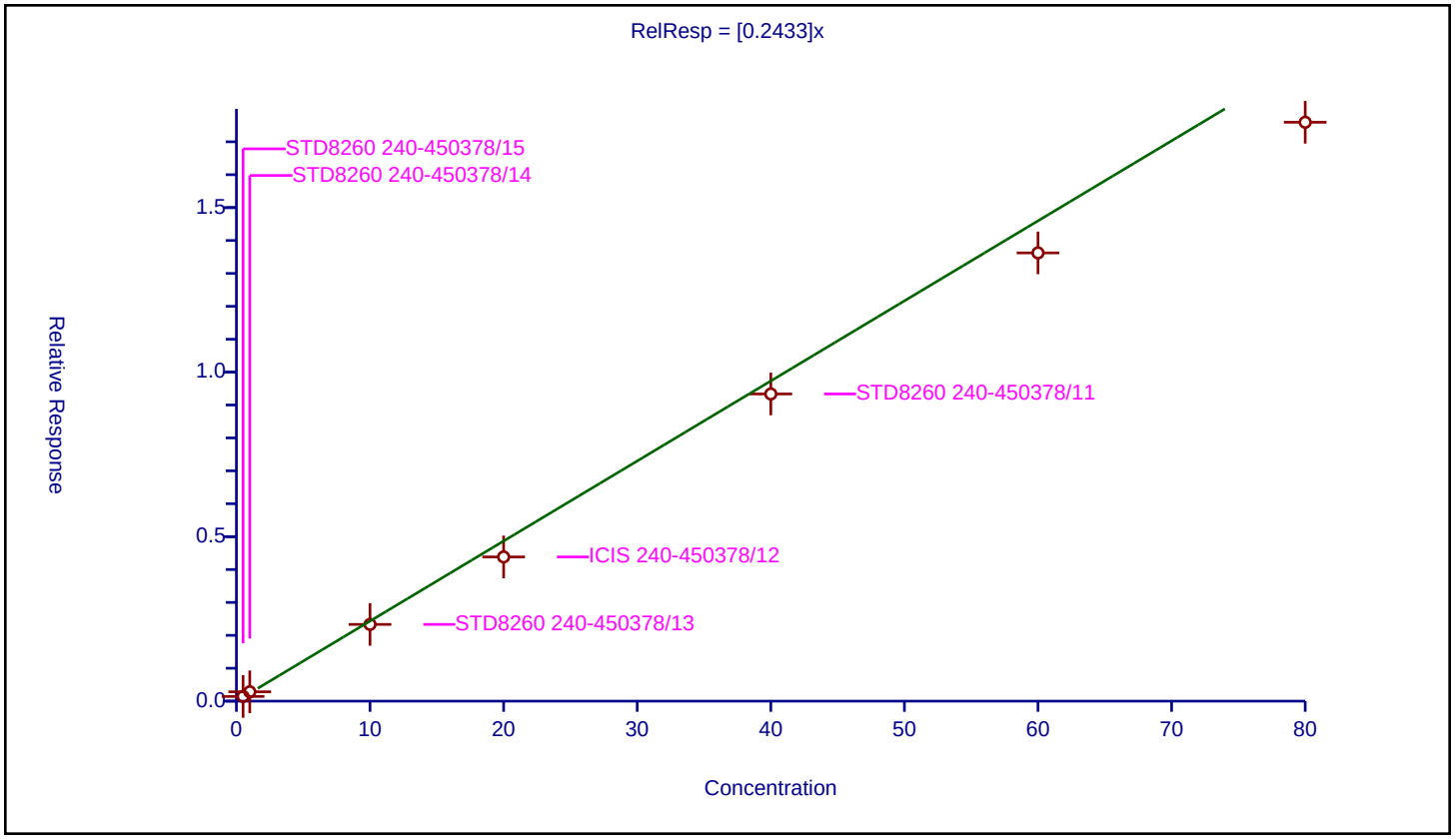
Curve Coefficients

Intercept:	0
Slope:	0.2433

Error Coefficients

Standard Error:	503000
Relative Standard Error:	12.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.143016	20.0	841447.0	0.286031	Y
2	STD8260 240-450378/14	1.0	0.284166	20.0	857034.0	0.284166	Y
3	STD8260 240-450378/13	10.0	2.332862	20.0	949906.0	0.233286	Y
4	ICIS 240-450378/12	20.0	4.383312	20.0	955305.0	0.219166	Y
5	STD8260 240-450378/11	40.0	9.336048	20.0	985207.0	0.233401	Y
6	STD8260 240-450378/10	60.0	13.622937	20.0	986335.0	0.227049	Y
7	STD8260 240-450378/9	80.0	17.593597	20.0	1016272.0	0.21992	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

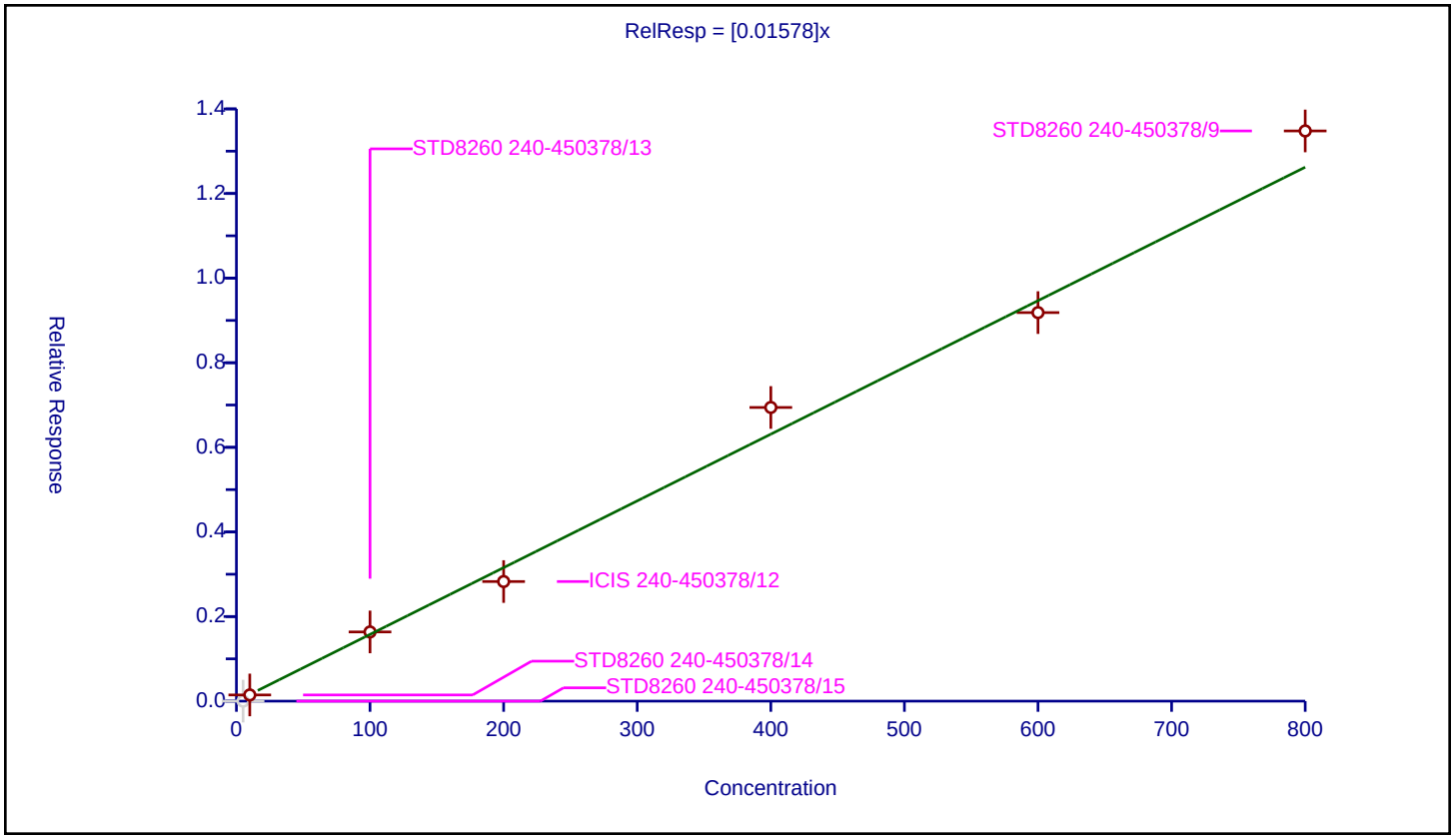
Curve Coefficients

Intercept:	0
Slope:	0.01578

Error Coefficients

Standard Error:	404000
Relative Standard Error:	8.1
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	5.0	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	10.0	0.146599	20.0	857034.0	0.01466	Y
3	STD8260 240-450378/13	100.0	1.635699	20.0	949906.0	0.016357	Y
4	ICIS 240-450378/12	200.0	2.827327	20.0	955305.0	0.014137	Y
5	STD8260 240-450378/11	400.0	6.9425	20.0	985207.0	0.017356	Y
6	STD8260 240-450378/10	600.0	9.184567	20.0	986335.0	0.015308	Y
7	STD8260 240-450378/9	800.0	13.478813	20.0	1016272.0	0.016849	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

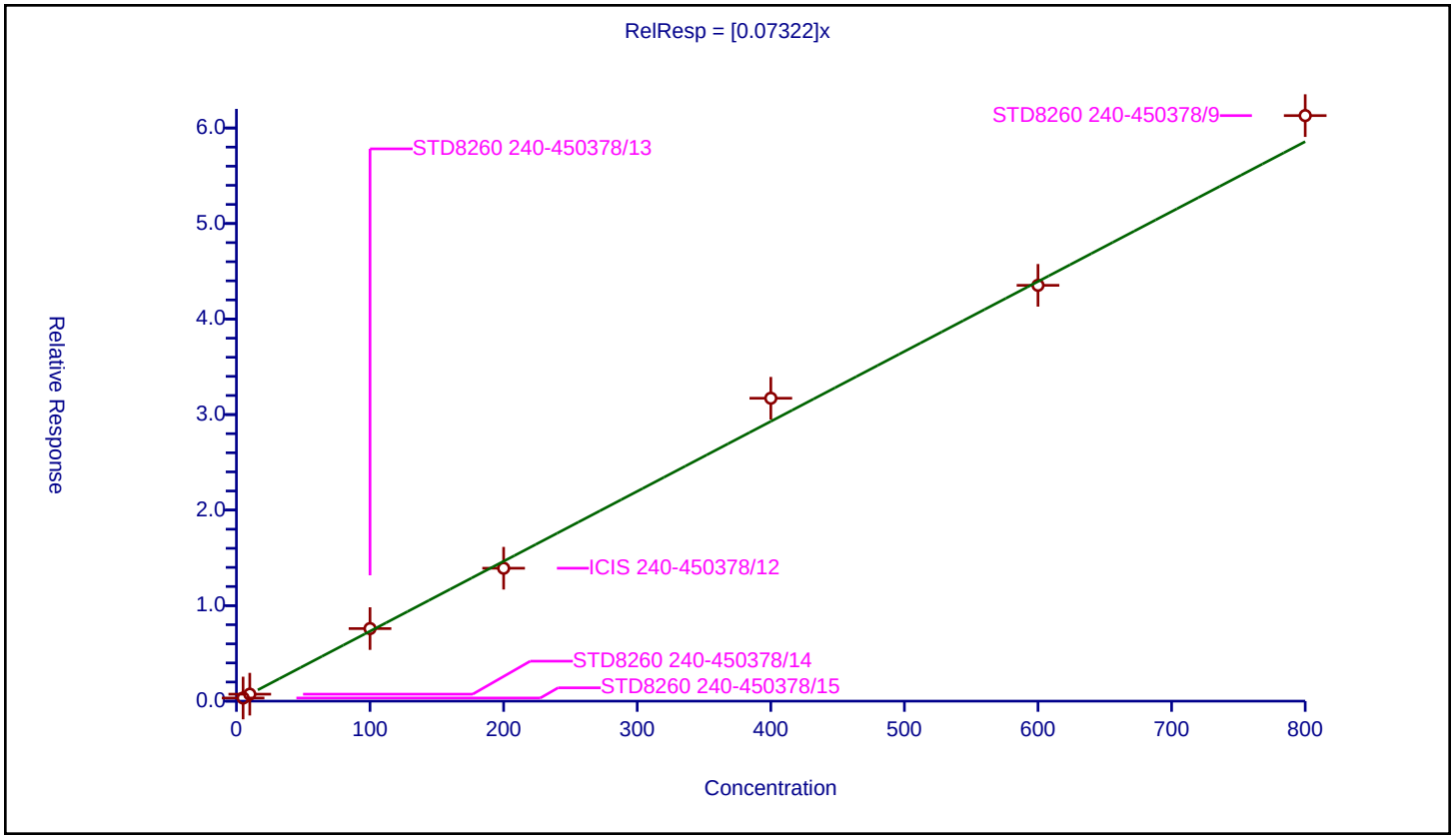
Curve Coefficients

Intercept:	0
Slope:	0.07322

Error Coefficients

Standard Error:	1700000
Relative Standard Error:	6.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	5.0	0.32822	20.0	841447.0	0.065644	Y
2	STD8260 240-450378/14	10.0	0.728839	20.0	857034.0	0.072884	Y
3	STD8260 240-450378/13	100.0	7.59751	20.0	949906.0	0.075975	Y
4	ICIS 240-450378/12	200.0	13.913232	20.0	955305.0	0.069566	Y
5	STD8260 240-450378/11	400.0	31.709052	20.0	985207.0	0.079273	Y
6	STD8260 240-450378/10	600.0	43.531457	20.0	986335.0	0.072552	Y
7	STD8260 240-450378/9	800.0	61.298117	20.0	1016272.0	0.076623	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

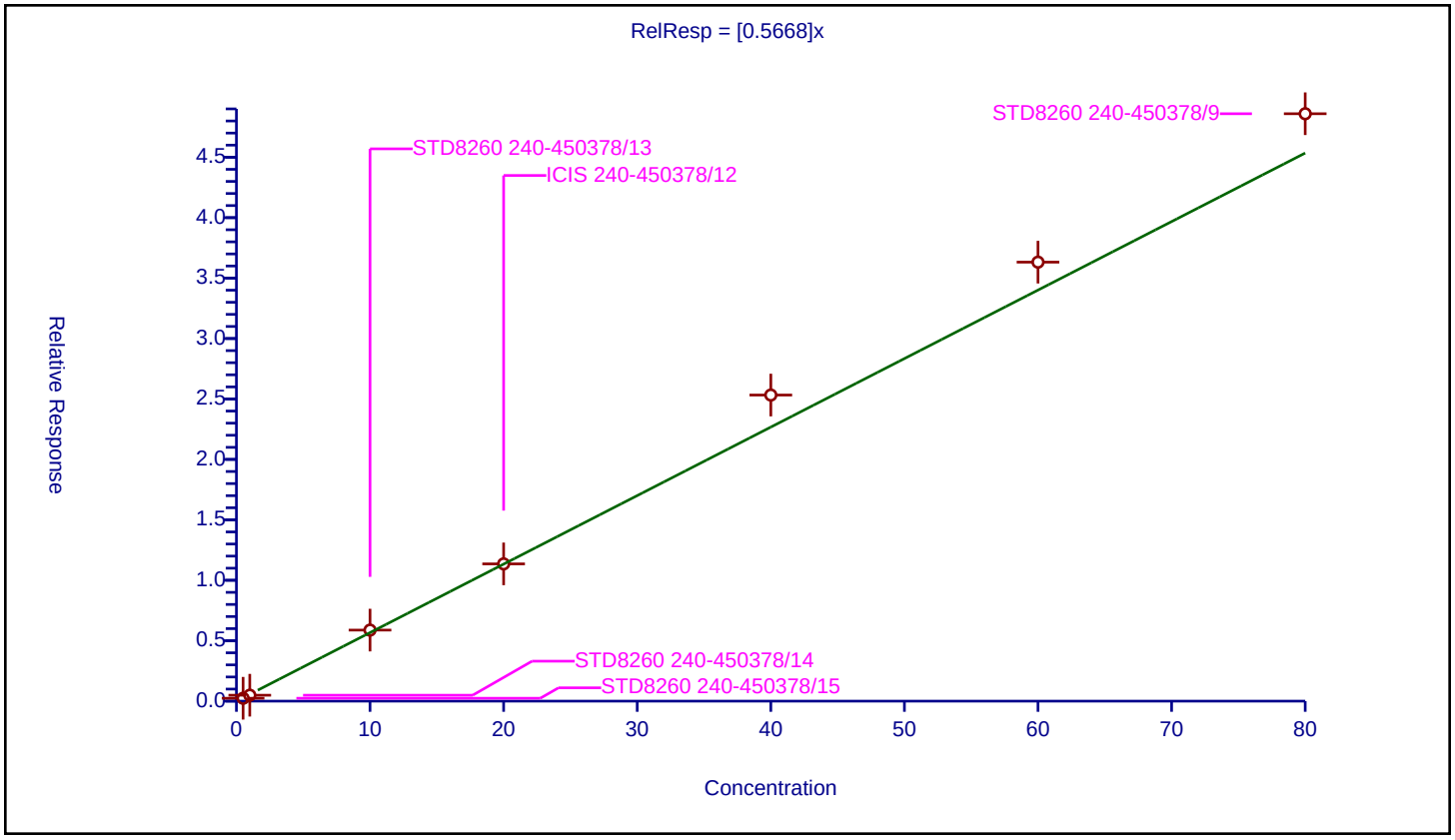
Curve Coefficients

Intercept:	0
Slope:	0.5668

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	10.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.238019	20.0	841447.0	0.476037	Y
2	STD8260 240-450378/14	1.0	0.490202	20.0	857034.0	0.490202	Y
3	STD8260 240-450378/13	10.0	5.877403	20.0	949906.0	0.58774	Y
4	ICIS 240-450378/12	20.0	11.356645	20.0	955305.0	0.567832	Y
5	STD8260 240-450378/11	40.0	25.325013	20.0	985207.0	0.633125	Y
6	STD8260 240-450378/10	60.0	36.320033	20.0	986335.0	0.605334	Y
7	STD8260 240-450378/9	80.0	48.598131	20.0	1016272.0	0.607477	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

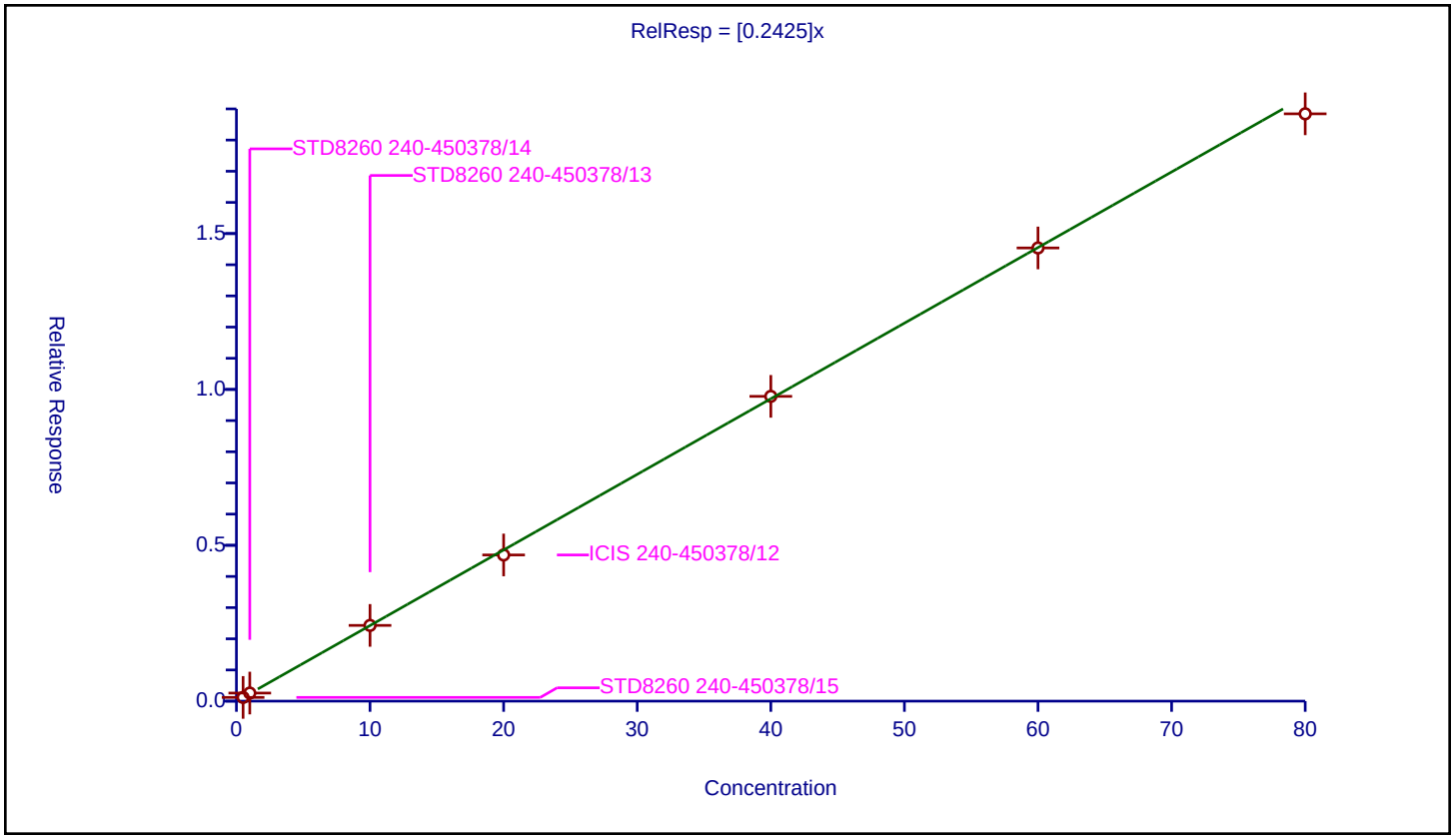
Curve Coefficients

Intercept:	0
Slope:	0.2425

Error Coefficients

Standard Error:	536000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.119176	20.0	841447.0	0.238351	Y
2	STD8260 240-450378/14	1.0	0.25964	20.0	857034.0	0.25964	Y
3	STD8260 240-450378/13	10.0	2.429251	20.0	949906.0	0.242925	Y
4	ICIS 240-450378/12	20.0	4.689644	20.0	955305.0	0.234482	Y
5	STD8260 240-450378/11	40.0	9.777803	20.0	985207.0	0.244445	Y
6	STD8260 240-450378/10	60.0	14.539218	20.0	986335.0	0.24232	Y
7	STD8260 240-450378/9	80.0	18.842337	20.0	1016272.0	0.235529	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

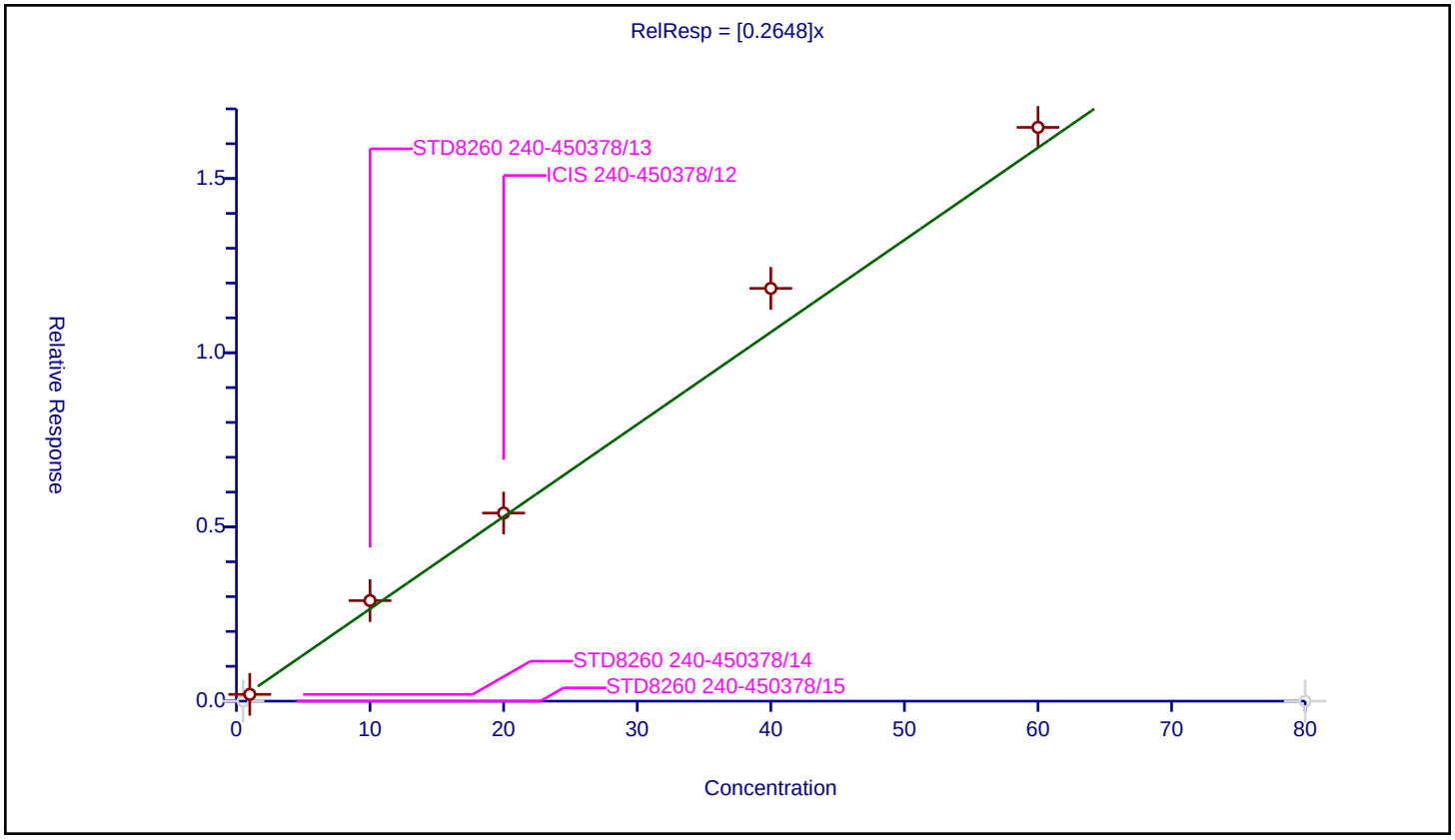
Curve Coefficients

Intercept:	0
Slope:	0.2648

Error Coefficients

Standard Error:	521000
Relative Standard Error:	15.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	1.0	0.194508	20.0	857034.0	0.194508	Y
3	STD8260 240-450378/13	10.0	2.886201	20.0	949906.0	0.28862	Y
4	ICIS 240-450378/12	20.0	5.39903	20.0	955305.0	0.269951	Y
5	STD8260 240-450378/11	40.0	11.847622	20.0	985207.0	0.296191	Y
6	STD8260 240-450378/10	60.0	16.469455	20.0	986335.0	0.274491	Y
7	STD8260 240-450378/9	80.0	0.0	20.0	1016272.0	0.0	N



Calibration / Vinyl acetate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

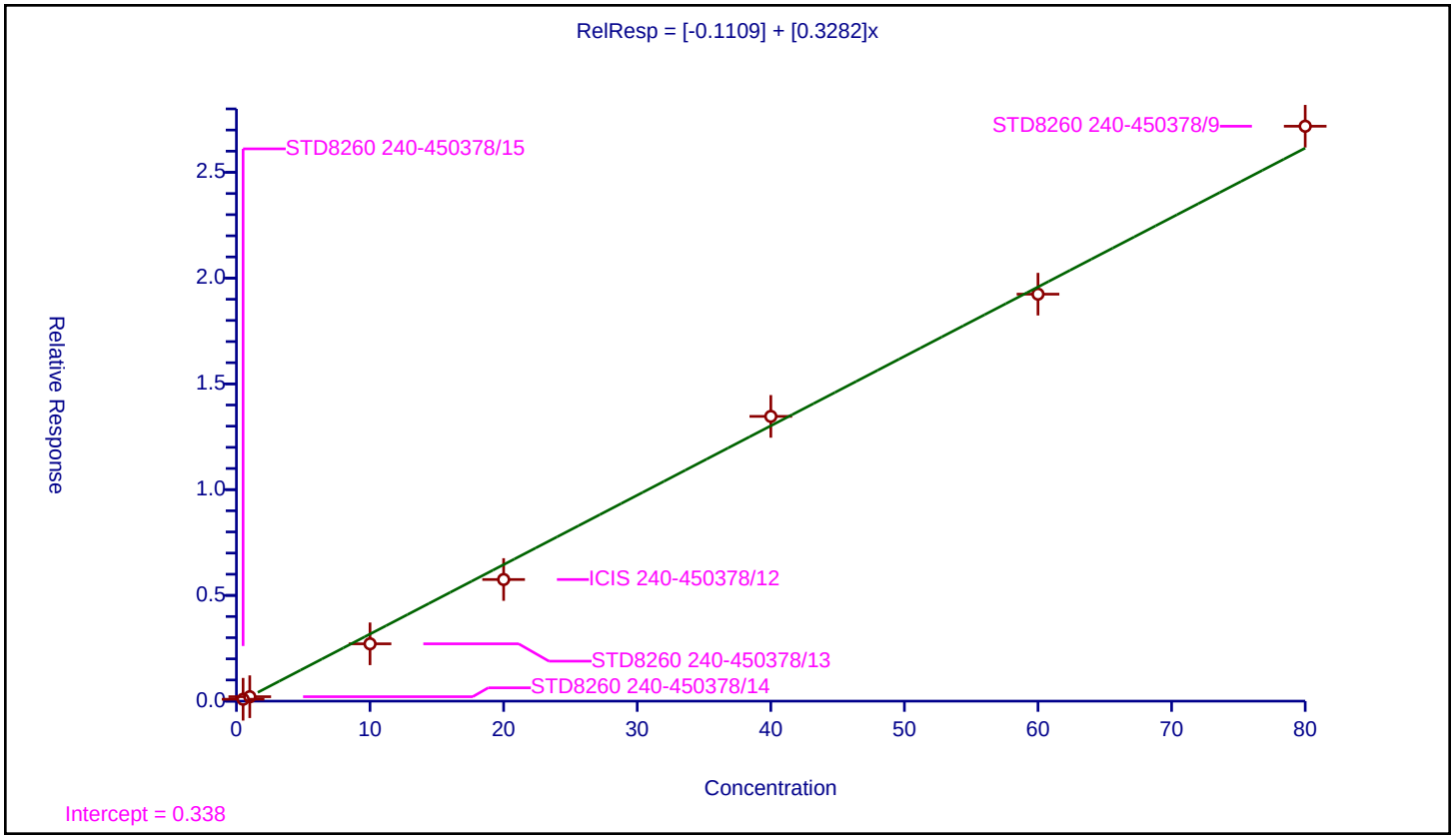
Curve Coefficients

Intercept:	-0.1109
Slope:	0.3282

Error Coefficients

Standard Error:	817000
Relative Standard Error:	12.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.088681	20.0	841447.0	0.177361	Y
2	STD8260 240-450378/14	1.0	0.20928	20.0	857034.0	0.20928	Y
3	STD8260 240-450378/13	10.0	2.710268	20.0	949906.0	0.271027	Y
4	ICIS 240-450378/12	20.0	5.750331	20.0	955305.0	0.287517	Y
5	STD8260 240-450378/11	40.0	13.462227	20.0	985207.0	0.336556	Y
6	STD8260 240-450378/10	60.0	19.240643	20.0	986335.0	0.320677	Y
7	STD8260 240-450378/9	80.0	27.180499	20.0	1016272.0	0.339756	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

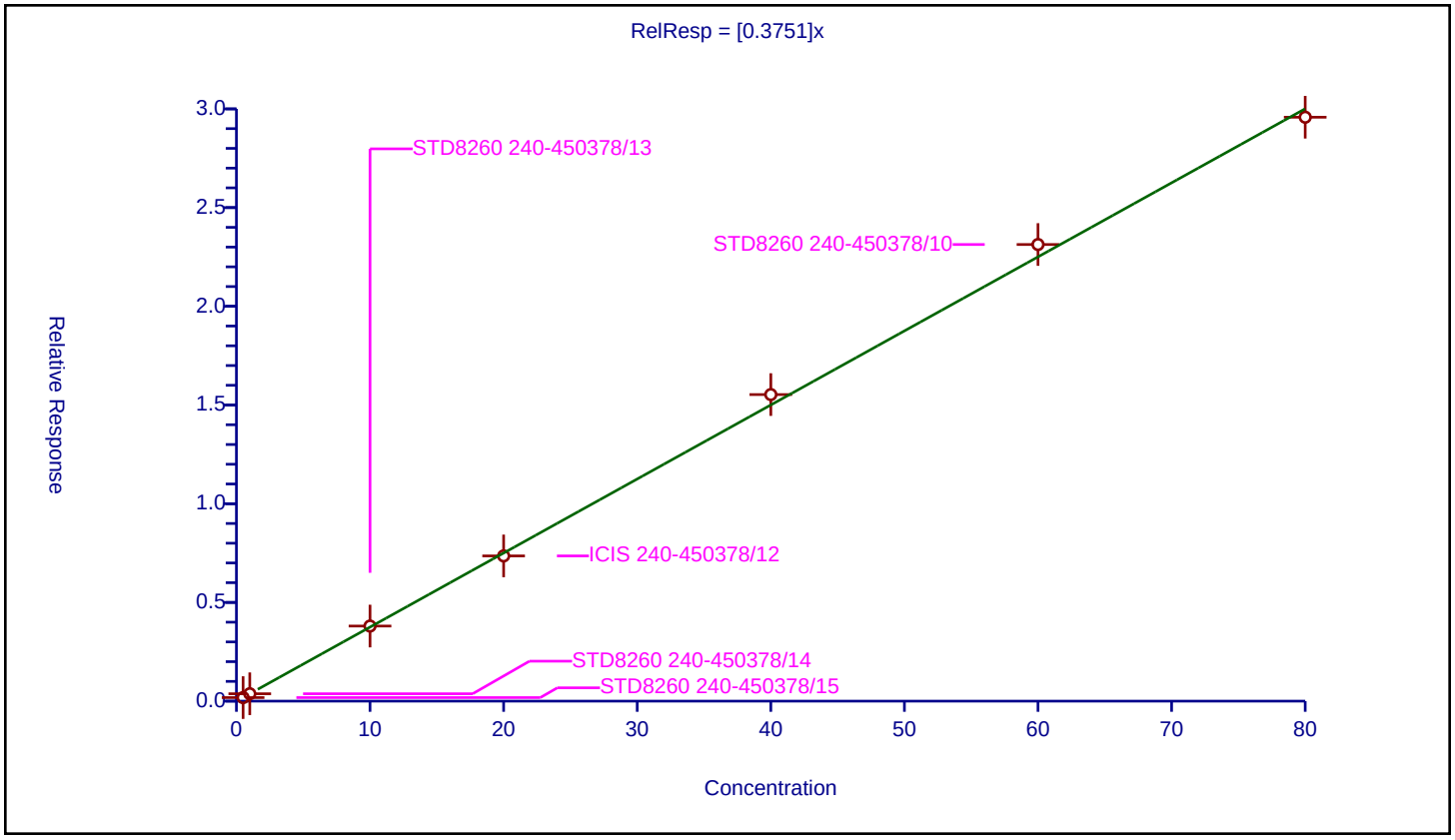
Curve Coefficients

Intercept:	0
Slope:	0.3751

Error Coefficients

Standard Error:	847000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.179453	20.0	841447.0	0.358906	Y
2	STD8260 240-450378/14	1.0	0.374944	20.0	857034.0	0.374944	Y
3	STD8260 240-450378/13	10.0	3.804082	20.0	949906.0	0.380408	Y
4	ICIS 240-450378/12	20.0	7.35652	20.0	955305.0	0.367826	Y
5	STD8260 240-450378/11	40.0	15.529183	20.0	985207.0	0.38823	Y
6	STD8260 240-450378/10	60.0	23.130052	20.0	986335.0	0.385501	Y
7	STD8260 240-450378/9	80.0	29.578105	20.0	1016272.0	0.369726	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

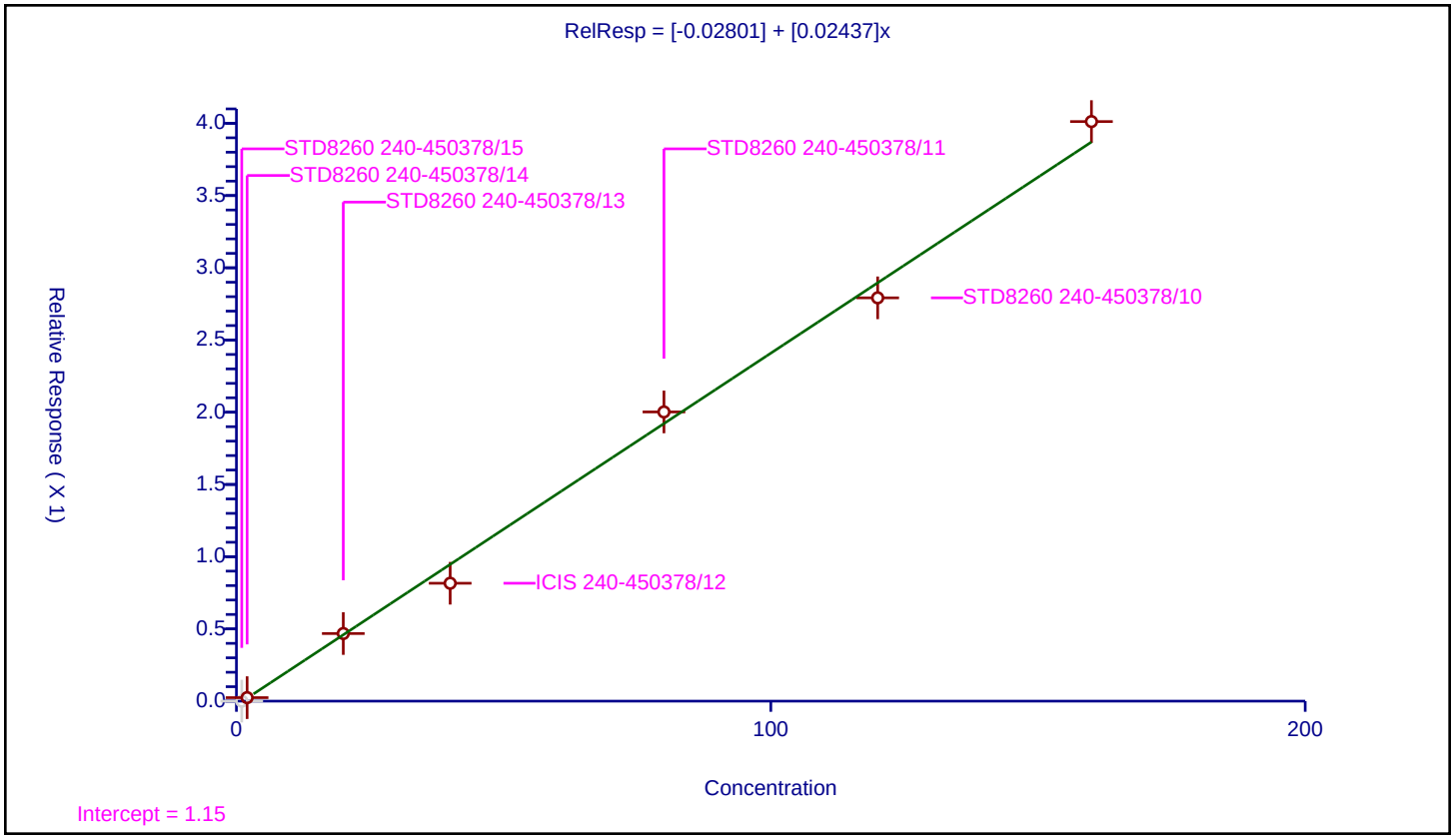
Curve Coefficients

Intercept:	-0.02801
Slope:	0.02437

Error Coefficients

Standard Error:	134000
Relative Standard Error:	8.4
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	2.0	0.024316	20.0	857034.0	0.012158	Y
3	STD8260 240-450378/13	20.0	0.468088	20.0	949906.0	0.023404	Y
4	ICIS 240-450378/12	40.0	0.816242	20.0	955305.0	0.020406	Y
5	STD8260 240-450378/11	80.0	2.002158	20.0	985207.0	0.025027	Y
6	STD8260 240-450378/10	120.0	2.791993	20.0	986335.0	0.023267	Y
7	STD8260 240-450378/9	160.0	4.012272	20.0	1016272.0	0.025077	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

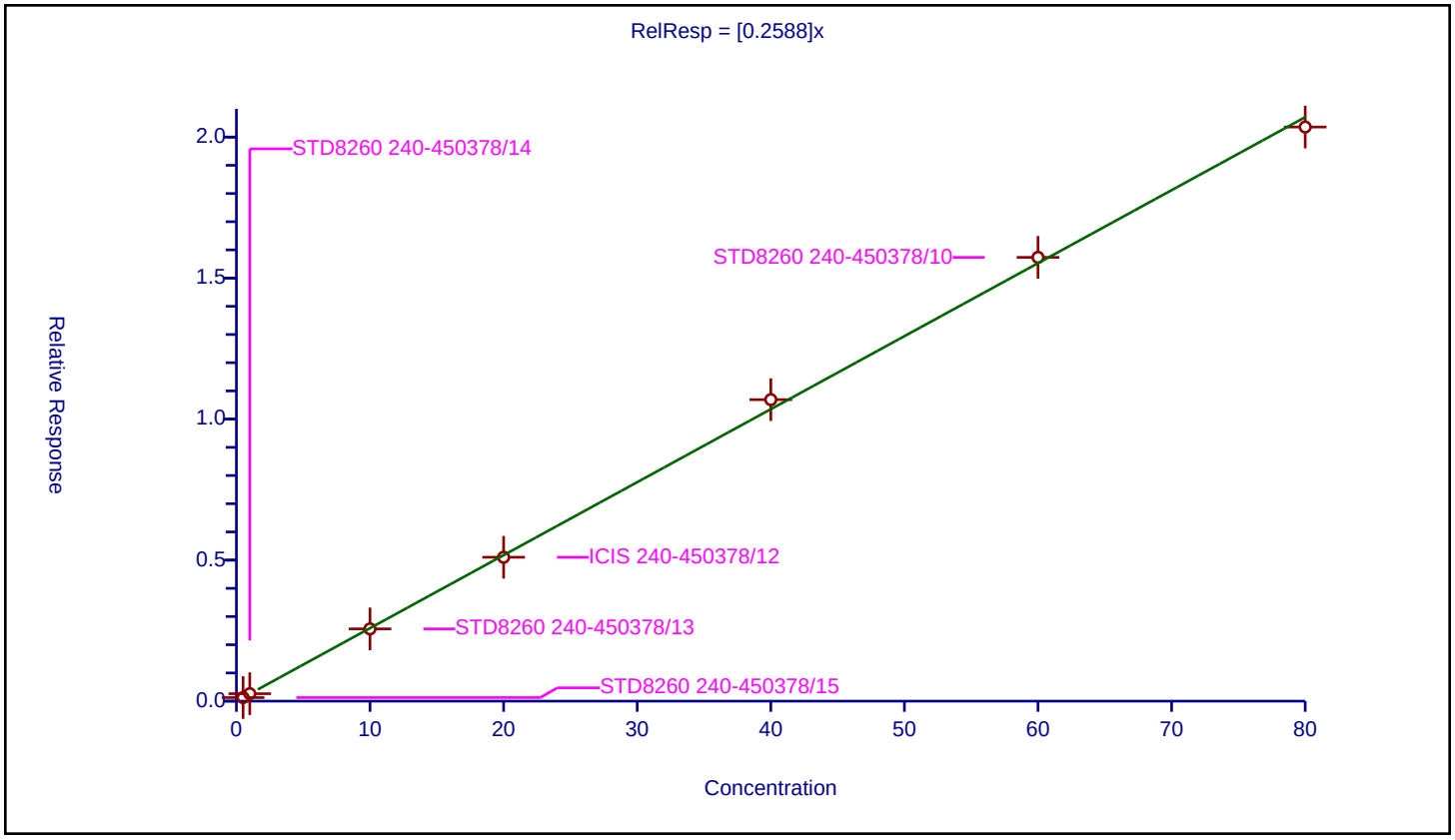
Curve Coefficients

Intercept:	0
Slope:	0.2588

Error Coefficients

Standard Error:	581000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.126045	20.0	841447.0	0.25209	Y
2	STD8260 240-450378/14	1.0	0.264307	20.0	857034.0	0.264307	Y
3	STD8260 240-450378/13	10.0	2.562485	20.0	949906.0	0.256249	Y
4	ICIS 240-450378/12	20.0	5.10237	20.0	955305.0	0.255119	Y
5	STD8260 240-450378/11	40.0	10.690322	20.0	985207.0	0.267258	Y
6	STD8260 240-450378/10	60.0	15.73506	20.0	986335.0	0.262251	Y
7	STD8260 240-450378/9	80.0	20.356814	20.0	1016272.0	0.25446	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

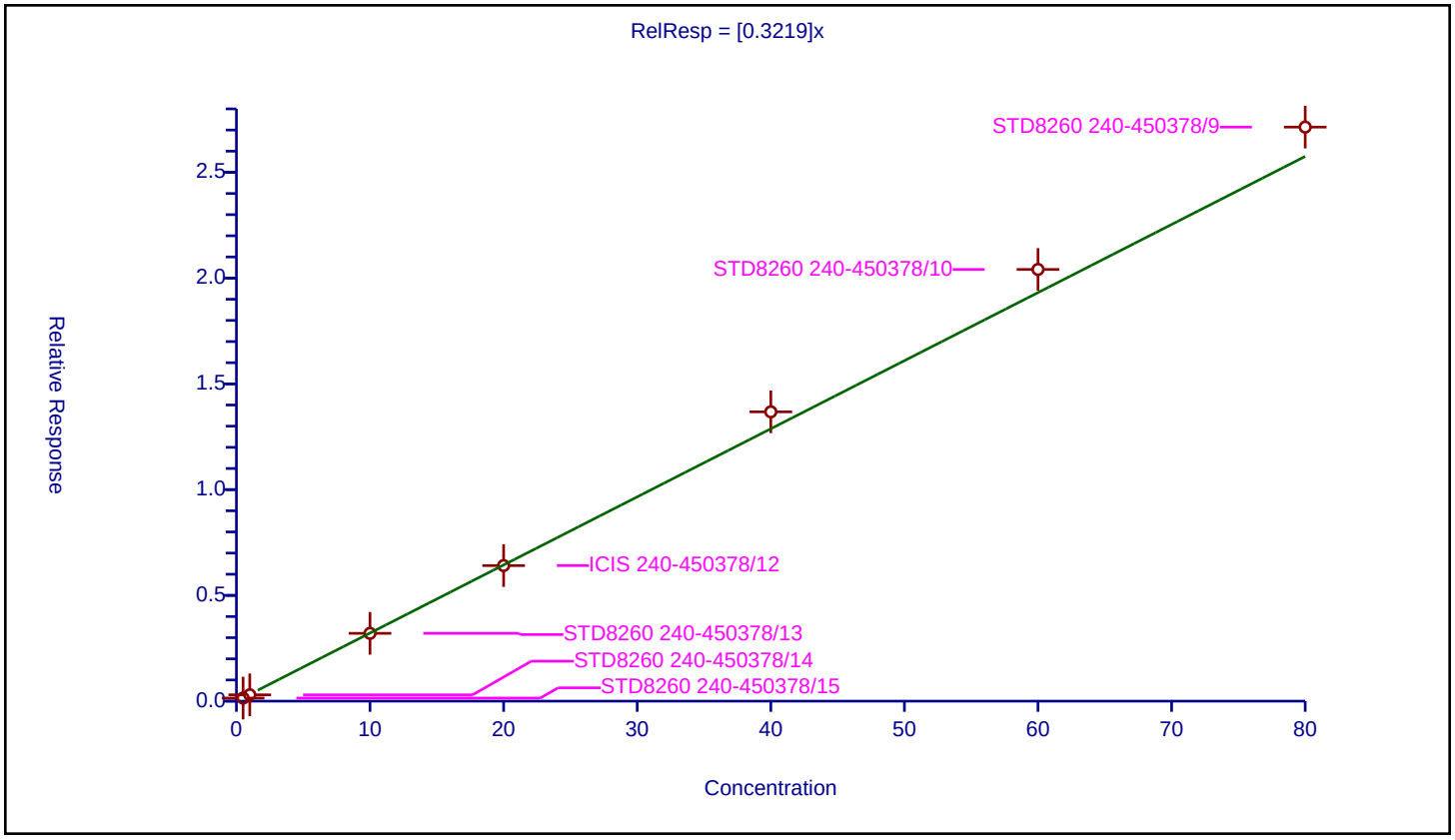
Curve Coefficients

Intercept:	0
Slope:	0.3219

Error Coefficients

Standard Error:	762000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.145892	20.0	841447.0	0.291783	Y
2	STD8260 240-450378/14	1.0	0.299335	20.0	857034.0	0.299335	Y
3	STD8260 240-450378/13	10.0	3.205454	20.0	949906.0	0.320545	Y
4	ICIS 240-450378/12	20.0	6.408571	20.0	955305.0	0.320429	Y
5	STD8260 240-450378/11	40.0	13.67806	20.0	985207.0	0.341951	Y
6	STD8260 240-450378/10	60.0	20.409354	20.0	986335.0	0.340156	Y
7	STD8260 240-450378/9	80.0	27.13927	20.0	1016272.0	0.339241	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

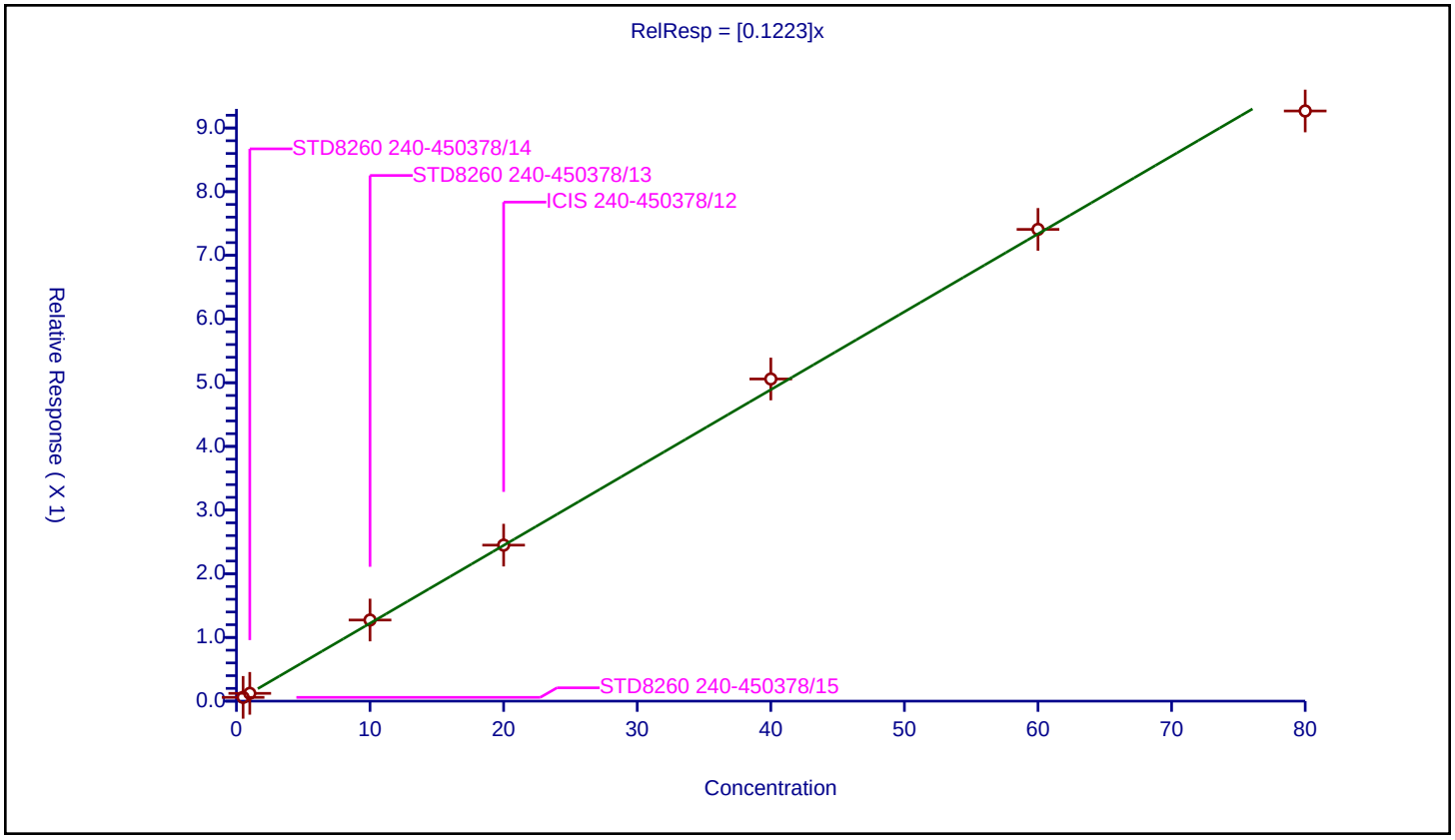
Curve Coefficients

Intercept:	0
Slope:	0.1223

Error Coefficients

Standard Error:	269000
Relative Standard Error:	3.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.058994	20.0	841447.0	0.117987	Y
2	STD8260 240-450378/14	1.0	0.122329	20.0	857034.0	0.122329	Y
3	STD8260 240-450378/13	10.0	1.273789	20.0	949906.0	0.127379	Y
4	ICIS 240-450378/12	20.0	2.449626	20.0	955305.0	0.122481	Y
5	STD8260 240-450378/11	40.0	5.058876	20.0	985207.0	0.126472	Y
6	STD8260 240-450378/10	60.0	7.407727	20.0	986335.0	0.123462	Y
7	STD8260 240-450378/9	80.0	9.267401	20.0	1016272.0	0.115843	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

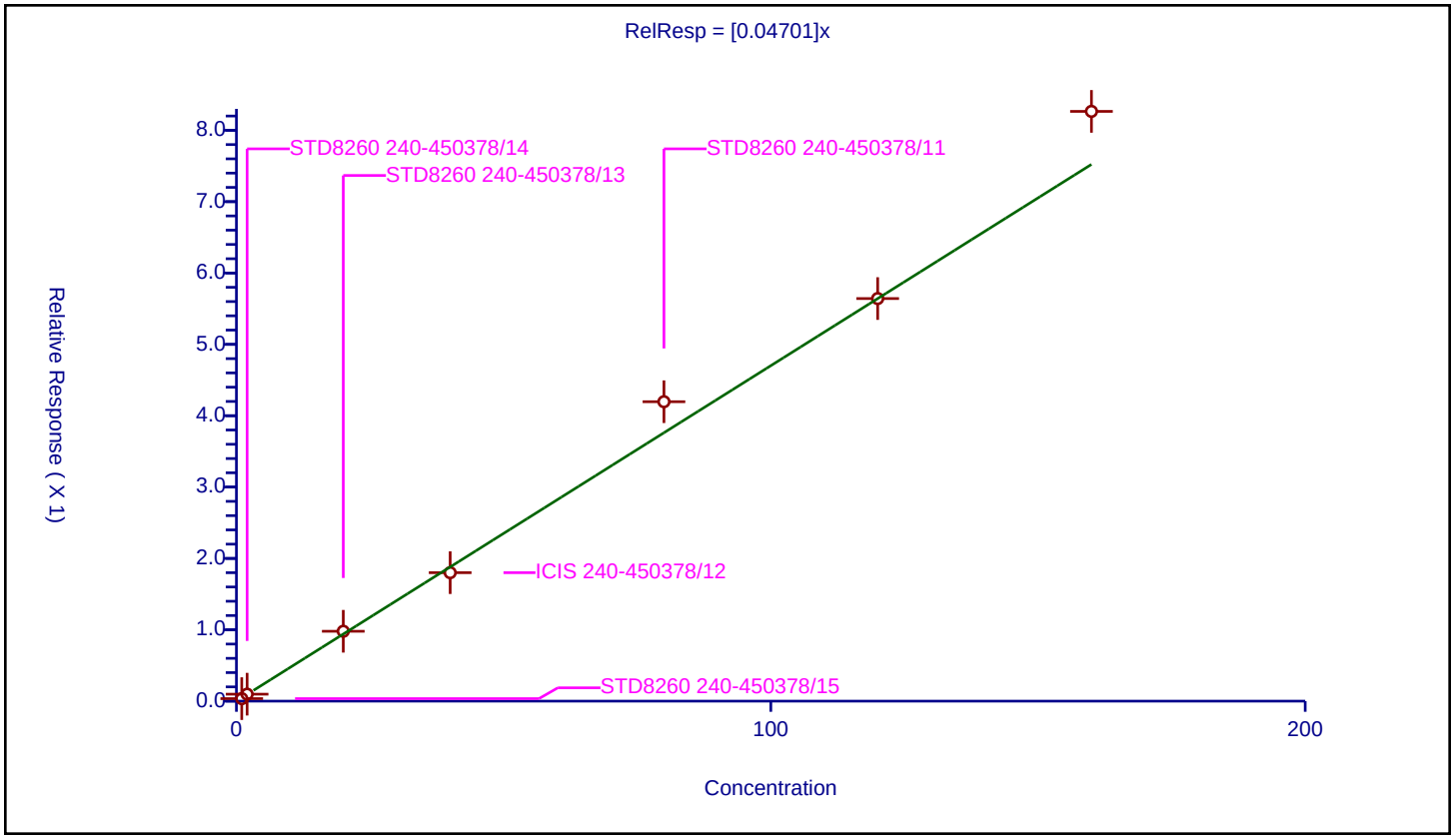
Curve Coefficients

Intercept:	0
Slope:	0.04701

Error Coefficients

Standard Error:	226000
Relative Standard Error:	12.4
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.03513	20.0	841447.0	0.03513	Y
2	STD8260 240-450378/14	2.0	0.097709	20.0	857034.0	0.048855	Y
3	STD8260 240-450378/13	20.0	0.979402	20.0	949906.0	0.04897	Y
4	ICIS 240-450378/12	40.0	1.800242	20.0	955305.0	0.045006	Y
5	STD8260 240-450378/11	80.0	4.196519	20.0	985207.0	0.052456	Y
6	STD8260 240-450378/10	120.0	5.641998	20.0	986335.0	0.047017	Y
7	STD8260 240-450378/9	160.0	8.265031	20.0	1016272.0	0.051656	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

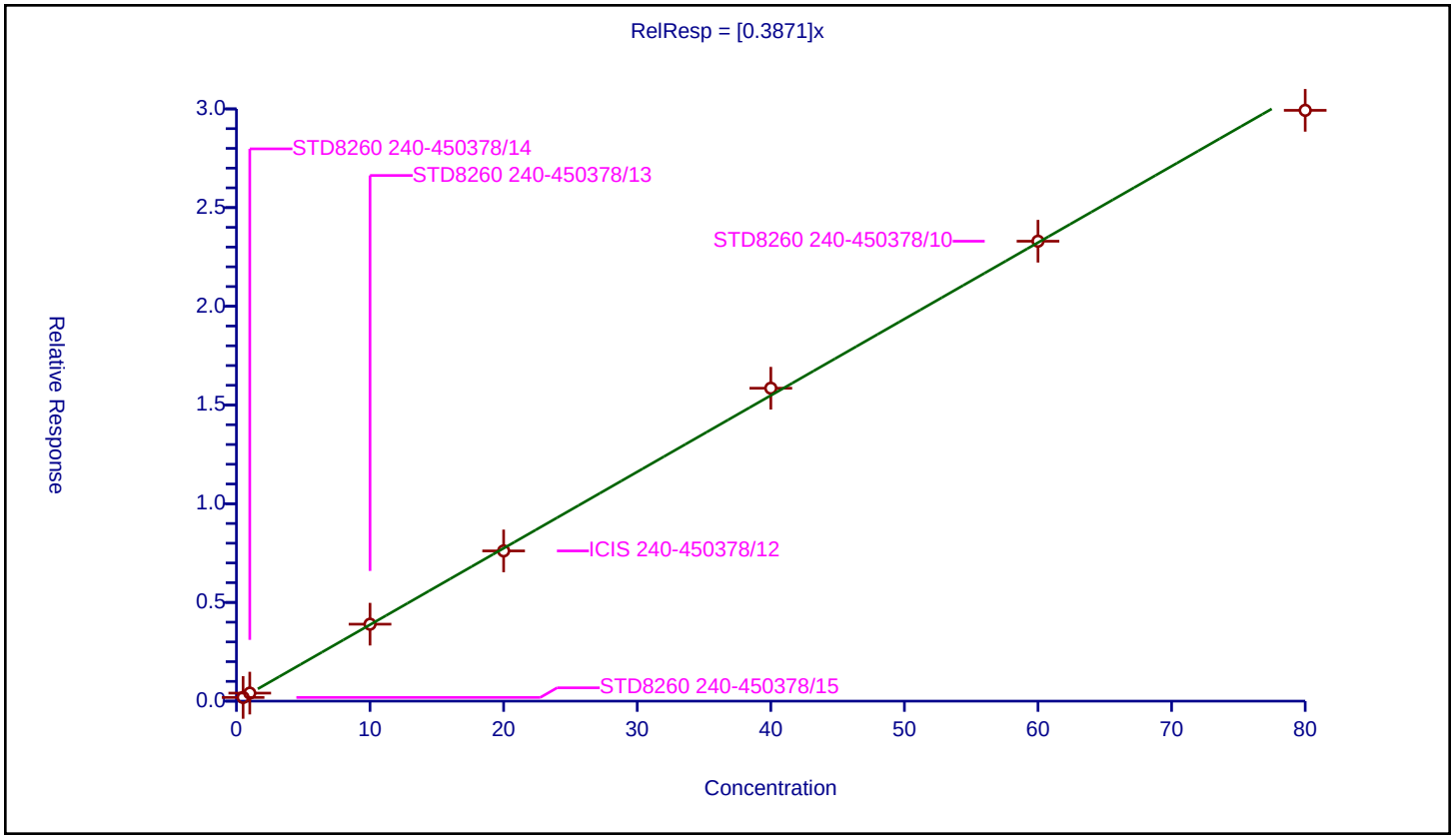
Curve Coefficients

Intercept:	0
Slope:	0.3871

Error Coefficients

Standard Error:	857000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.187296	20.0	841447.0	0.374593	Y
2	STD8260 240-450378/14	1.0	0.406262	20.0	857034.0	0.406262	Y
3	STD8260 240-450378/13	10.0	3.898765	20.0	949906.0	0.389876	Y
4	ICIS 240-450378/12	20.0	7.60936	20.0	955305.0	0.380468	Y
5	STD8260 240-450378/11	40.0	15.851877	20.0	985207.0	0.396297	Y
6	STD8260 240-450378/10	60.0	23.297906	20.0	986335.0	0.388298	Y
7	STD8260 240-450378/9	80.0	29.927008	20.0	1016272.0	0.374088	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

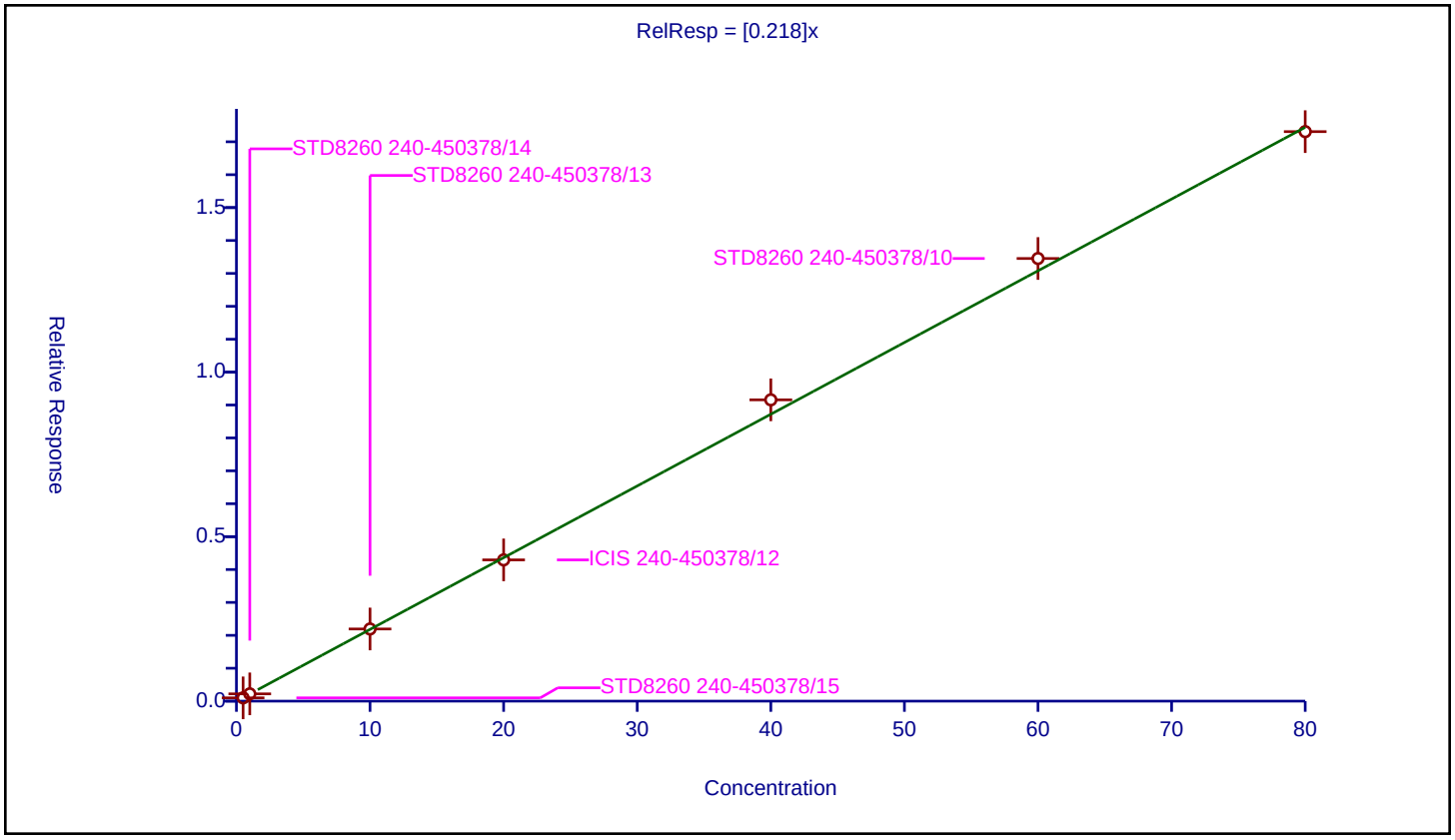
Curve Coefficients

Intercept:	0
Slope:	0.218

Error Coefficients

Standard Error:	495000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.100327	20.0	841447.0	0.200654	Y
2	STD8260 240-450378/14	1.0	0.221788	20.0	857034.0	0.221788	Y
3	STD8260 240-450378/13	10.0	2.193628	20.0	949906.0	0.219363	Y
4	ICIS 240-450378/12	20.0	4.292807	20.0	955305.0	0.21464	Y
5	STD8260 240-450378/11	40.0	9.15704	20.0	985207.0	0.228926	Y
6	STD8260 240-450378/10	60.0	13.453502	20.0	986335.0	0.224225	Y
7	STD8260 240-450378/9	80.0	17.308909	20.0	1016272.0	0.216361	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

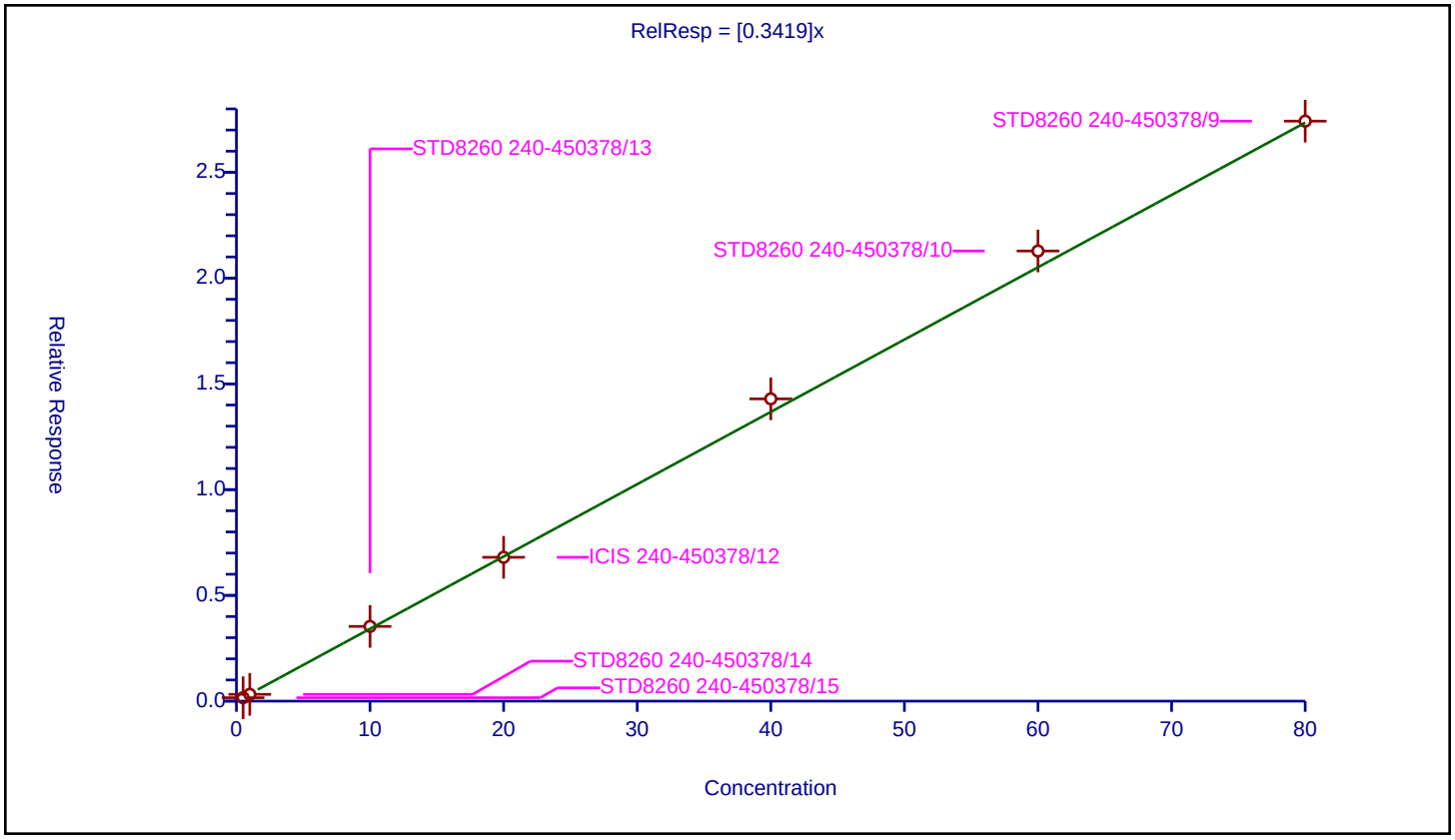
Curve Coefficients

Intercept:	0
Slope:	0.3419

Error Coefficients

Standard Error:	782000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.16184	20.0	841447.0	0.323681	Y
2	STD8260 240-450378/14	1.0	0.321317	20.0	857034.0	0.321317	Y
3	STD8260 240-450378/13	10.0	3.533044	20.0	949906.0	0.353304	Y
4	ICIS 240-450378/12	20.0	6.800697	20.0	955305.0	0.340035	Y
5	STD8260 240-450378/11	40.0	14.291535	20.0	985207.0	0.357288	Y
6	STD8260 240-450378/10	60.0	21.281836	20.0	986335.0	0.354697	Y
7	STD8260 240-450378/9	80.0	27.422619	20.0	1016272.0	0.342783	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

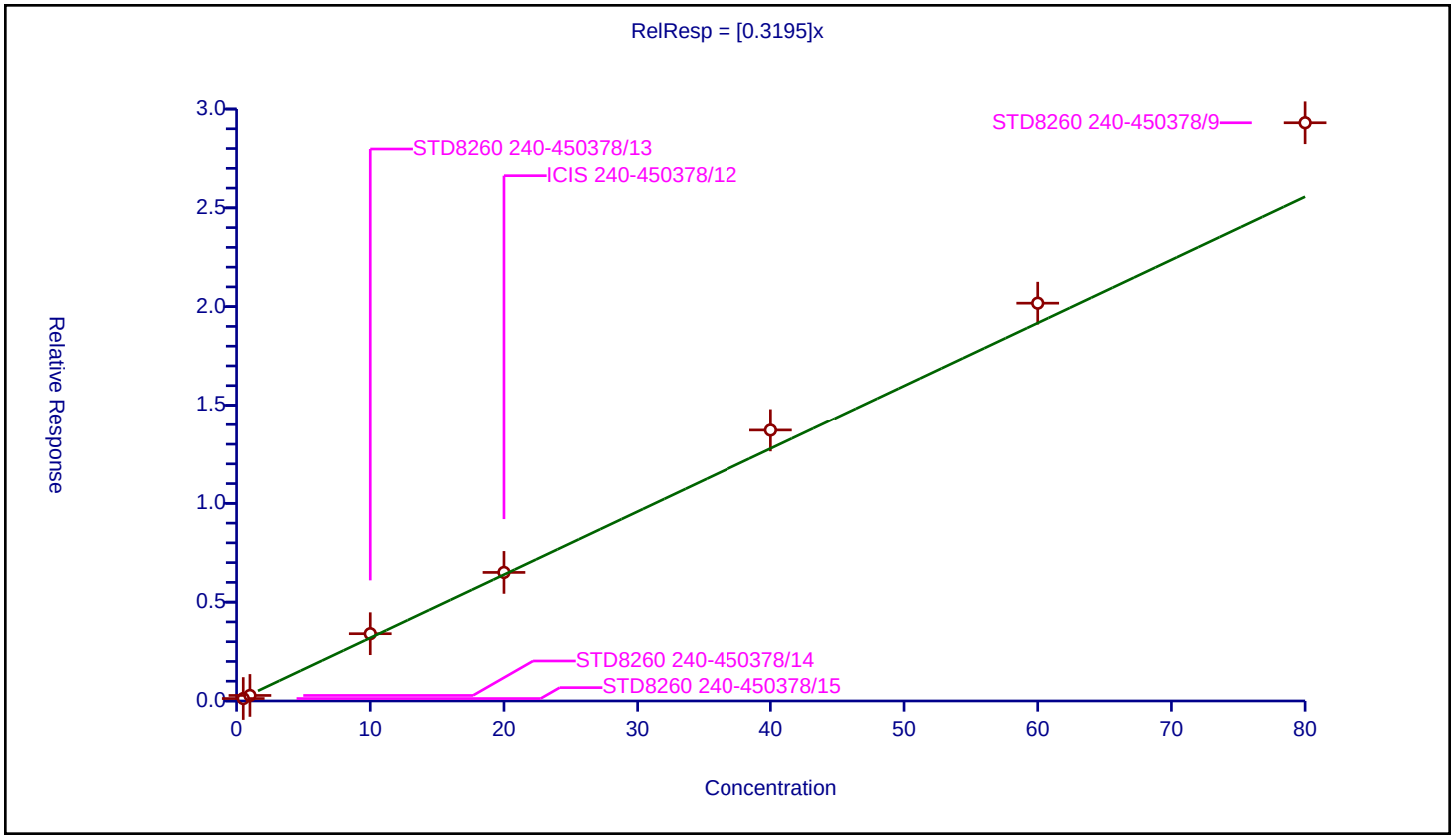
Curve Coefficients

Intercept:	0
Slope:	0.3195

Error Coefficients

Standard Error:	794000
Relative Standard Error:	13.1
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.122788	20.0	841447.0	0.245577	Y
2	STD8260 240-450378/14	1.0	0.280129	20.0	857034.0	0.280129	Y
3	STD8260 240-450378/13	10.0	3.404189	20.0	949906.0	0.340419	Y
4	ICIS 240-450378/12	20.0	6.50431	20.0	955305.0	0.325216	Y
5	STD8260 240-450378/11	40.0	13.715351	20.0	985207.0	0.342884	Y
6	STD8260 240-450378/10	60.0	20.176816	20.0	986335.0	0.33628	Y
7	STD8260 240-450378/9	80.0	29.304635	20.0	1016272.0	0.366308	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

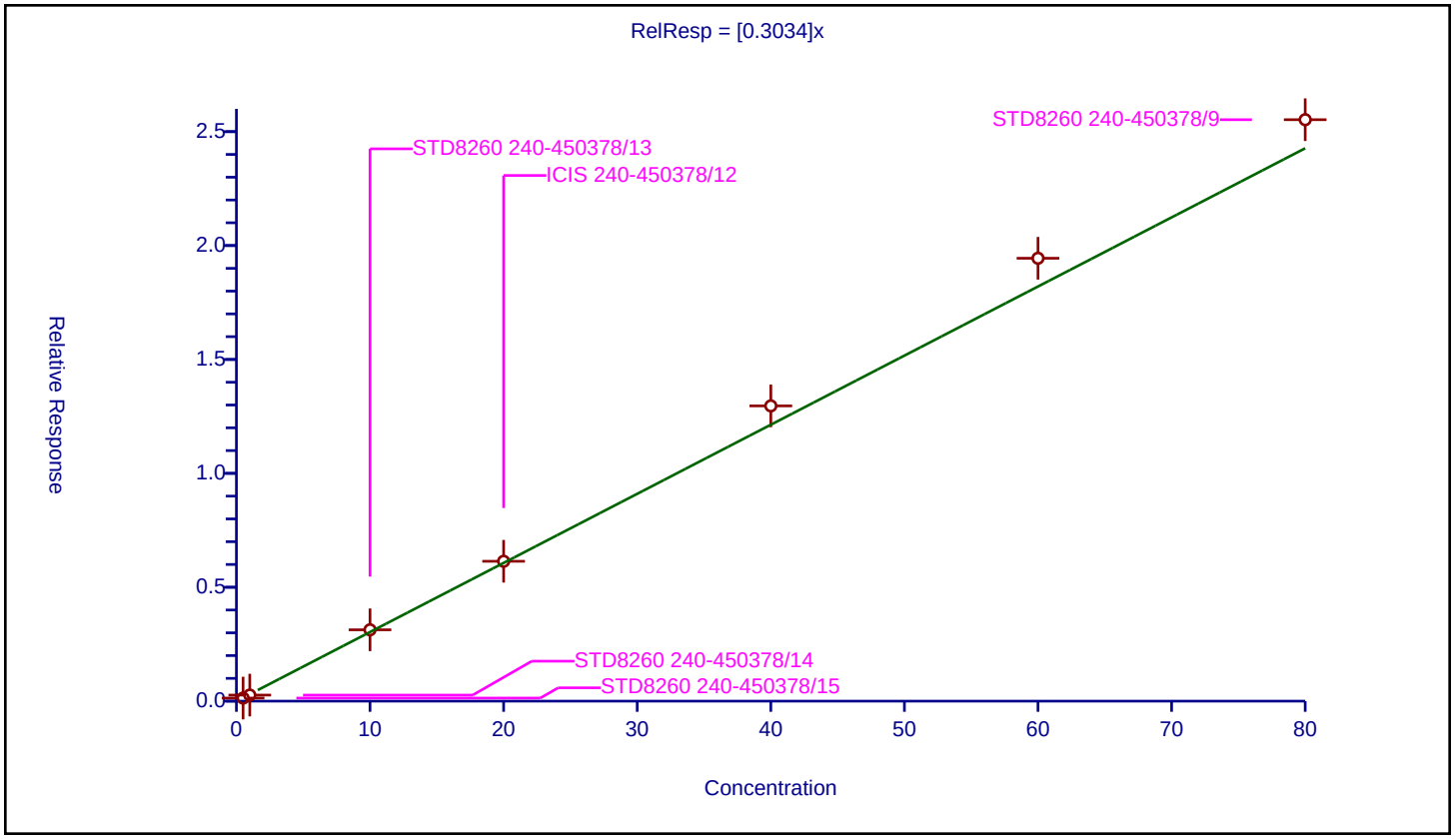
Curve Coefficients

Intercept:	0
Slope:	0.3034

Error Coefficients

Standard Error:	721000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.135029	20.0	841447.0	0.270059	Y
2	STD8260 240-450378/14	1.0	0.26622	20.0	857034.0	0.26622	Y
3	STD8260 240-450378/13	10.0	3.132099	20.0	949906.0	0.31321	Y
4	ICIS 240-450378/12	20.0	6.140008	20.0	955305.0	0.307	Y
5	STD8260 240-450378/11	40.0	12.961702	20.0	985207.0	0.324043	Y
6	STD8260 240-450378/10	60.0	19.443293	20.0	986335.0	0.324055	Y
7	STD8260 240-450378/9	80.0	25.525509	20.0	1016272.0	0.319069	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

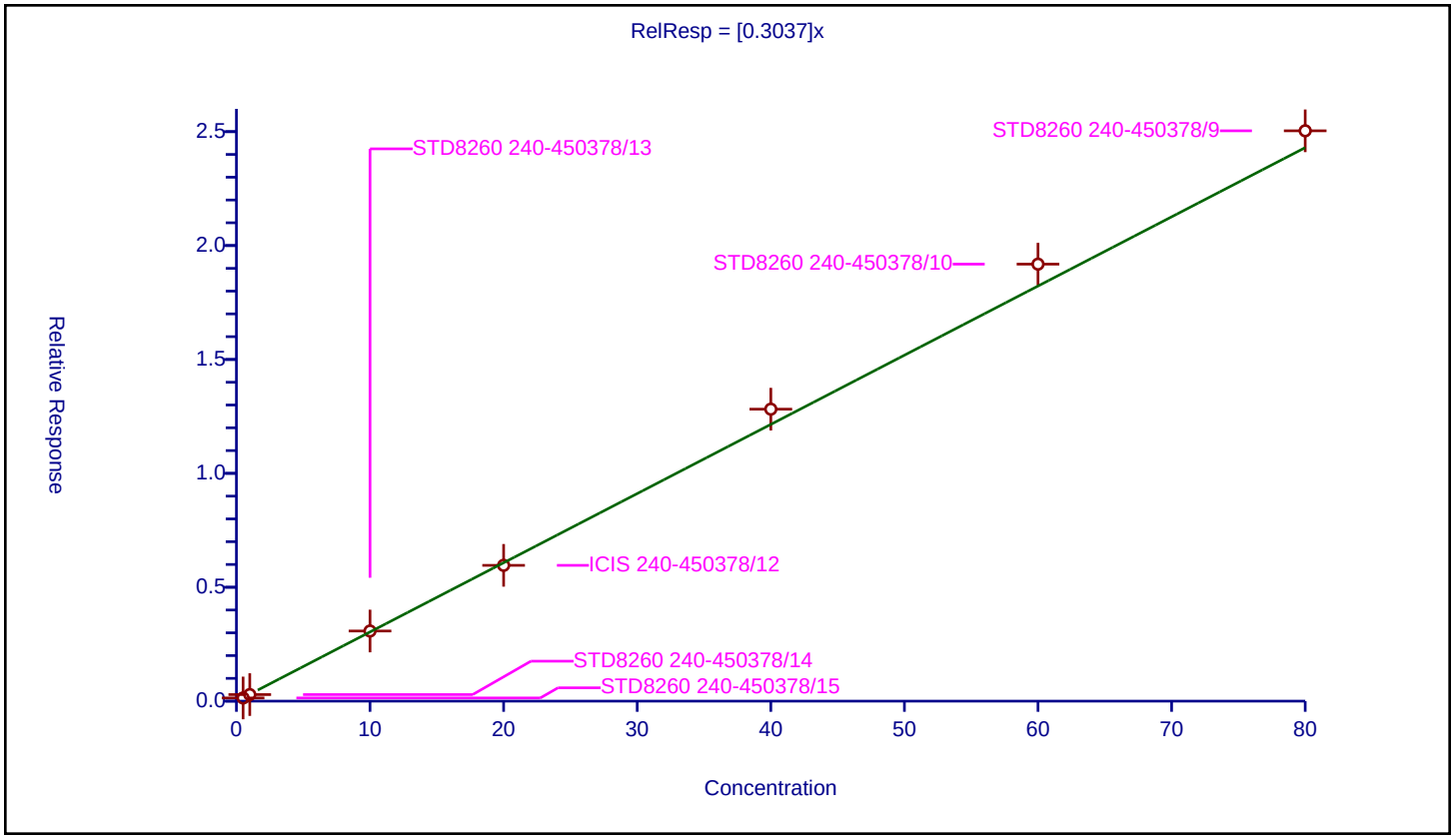
Curve Coefficients

Intercept:	0
Slope:	0.3037

Error Coefficients

Standard Error:	709000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.139593	20.0	841447.0	0.279186	Y
2	STD8260 240-450378/14	1.0	0.287737	20.0	857034.0	0.287737	Y
3	STD8260 240-450378/13	10.0	3.079778	20.0	949906.0	0.307978	Y
4	ICIS 240-450378/12	20.0	5.961531	20.0	955305.0	0.298077	Y
5	STD8260 240-450378/11	40.0	12.817509	20.0	985207.0	0.320438	Y
6	STD8260 240-450378/10	60.0	19.184233	20.0	986335.0	0.319737	Y
7	STD8260 240-450378/9	80.0	25.037844	20.0	1016272.0	0.312973	Y



Calibration / Isobutyl alcohol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

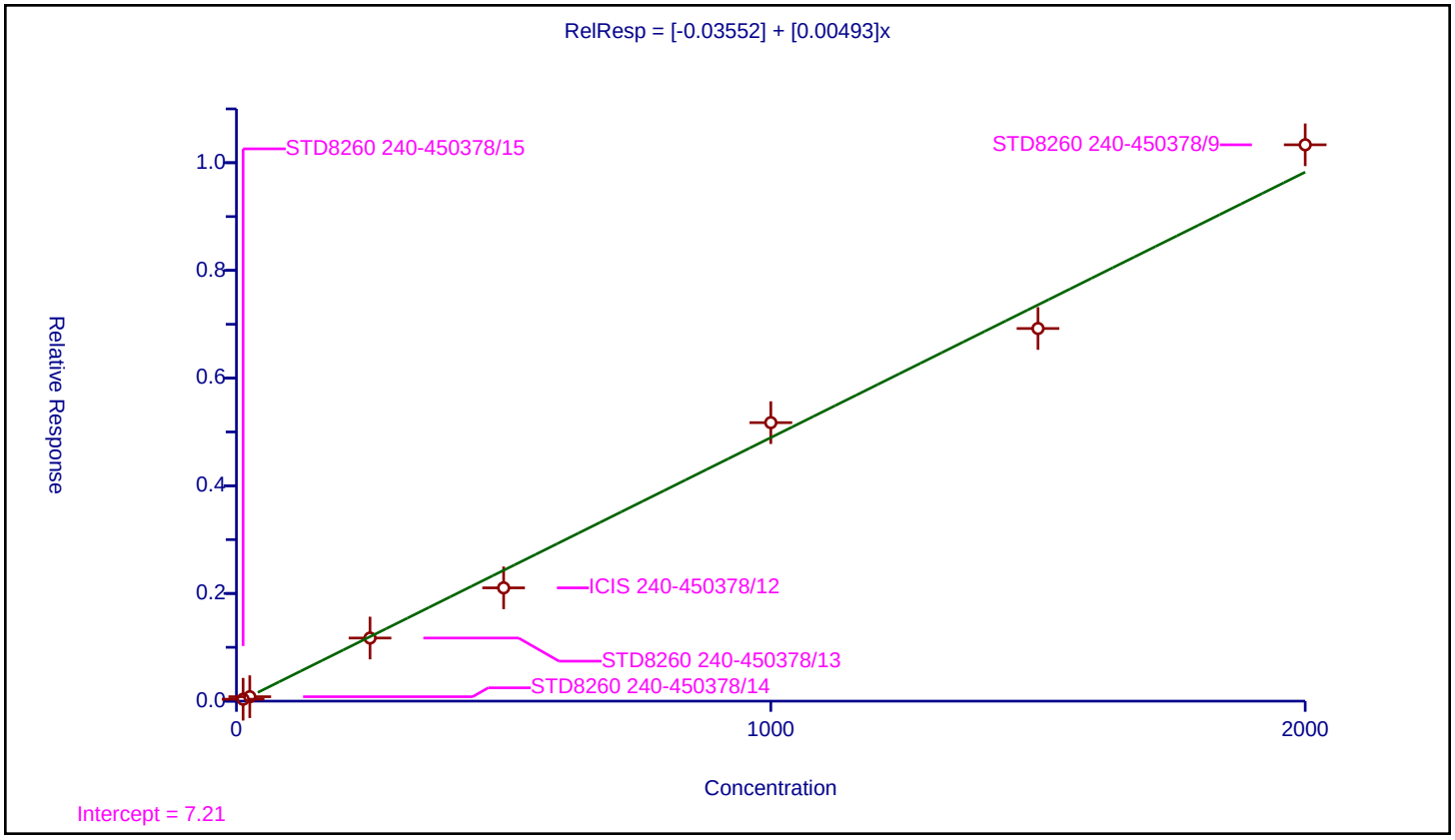
Curve Coefficients

Intercept:	-0.03552
Slope:	0.00493

Error Coefficients

Standard Error:	307000
Relative Standard Error:	10.1
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	12.5	0.035177	20.0	841447.0	0.002814	Y
2	STD8260 240-450378/14	25.0	0.082377	20.0	857034.0	0.003295	Y
3	STD8260 240-450378/13	250.0	1.172242	20.0	949906.0	0.004689	Y
4	ICIS 240-450378/12	500.0	2.104312	20.0	955305.0	0.004209	Y
5	STD8260 240-450378/11	1000.0	5.172679	20.0	985207.0	0.005173	Y
6	STD8260 240-450378/10	1500.0	6.921218	20.0	986335.0	0.004614	Y
7	STD8260 240-450378/9	2000.0	10.333257	20.0	1016272.0	0.005167	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

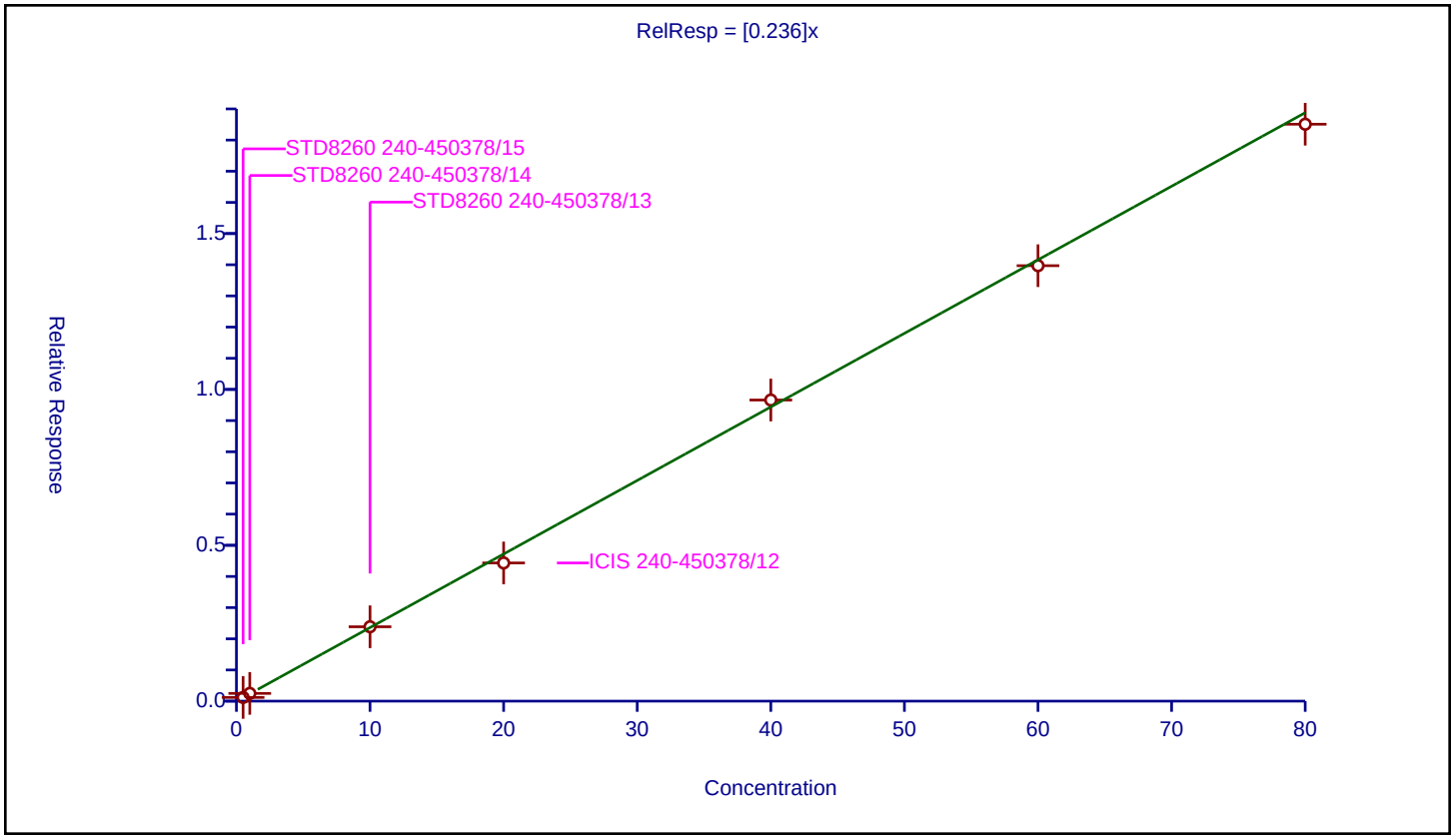
Curve Coefficients

Intercept:	0
Slope:	0.236

Error Coefficients

Standard Error:	523000
Relative Standard Error:	3.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.118748	20.0	841447.0	0.237496	Y
2	STD8260 240-450378/14	1.0	0.248415	20.0	857034.0	0.248415	Y
3	STD8260 240-450378/13	10.0	2.385689	20.0	949906.0	0.238569	Y
4	ICIS 240-450378/12	20.0	4.433139	20.0	955305.0	0.221657	Y
5	STD8260 240-450378/11	40.0	9.659574	20.0	985207.0	0.241489	Y
6	STD8260 240-450378/10	60.0	13.969899	20.0	986335.0	0.232832	Y
7	STD8260 240-450378/9	80.0	18.508962	20.0	1016272.0	0.231362	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

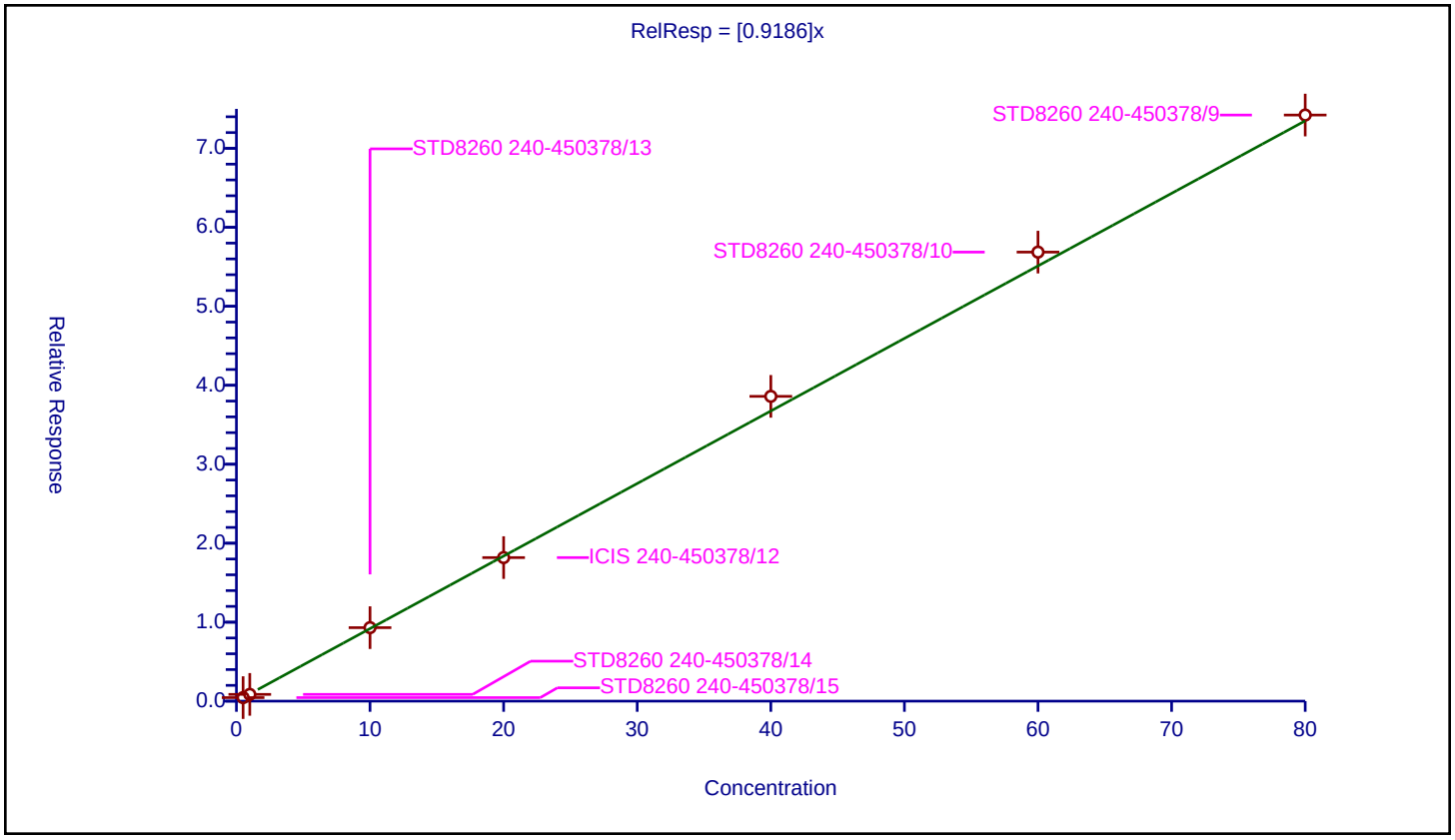
Curve Coefficients

Intercept:	0
Slope:	0.9186

Error Coefficients

Standard Error:	2110000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.447919	20.0	841447.0	0.895838	Y
2	STD8260 240-450378/14	1.0	0.854412	20.0	857034.0	0.854412	Y
3	STD8260 240-450378/13	10.0	9.308289	20.0	949906.0	0.930829	Y
4	ICIS 240-450378/12	20.0	18.177566	20.0	955305.0	0.908878	Y
5	STD8260 240-450378/11	40.0	38.596681	20.0	985207.0	0.964917	Y
6	STD8260 240-450378/10	60.0	56.862871	20.0	986335.0	0.947715	Y
7	STD8260 240-450378/9	80.0	74.22198	20.0	1016272.0	0.927775	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

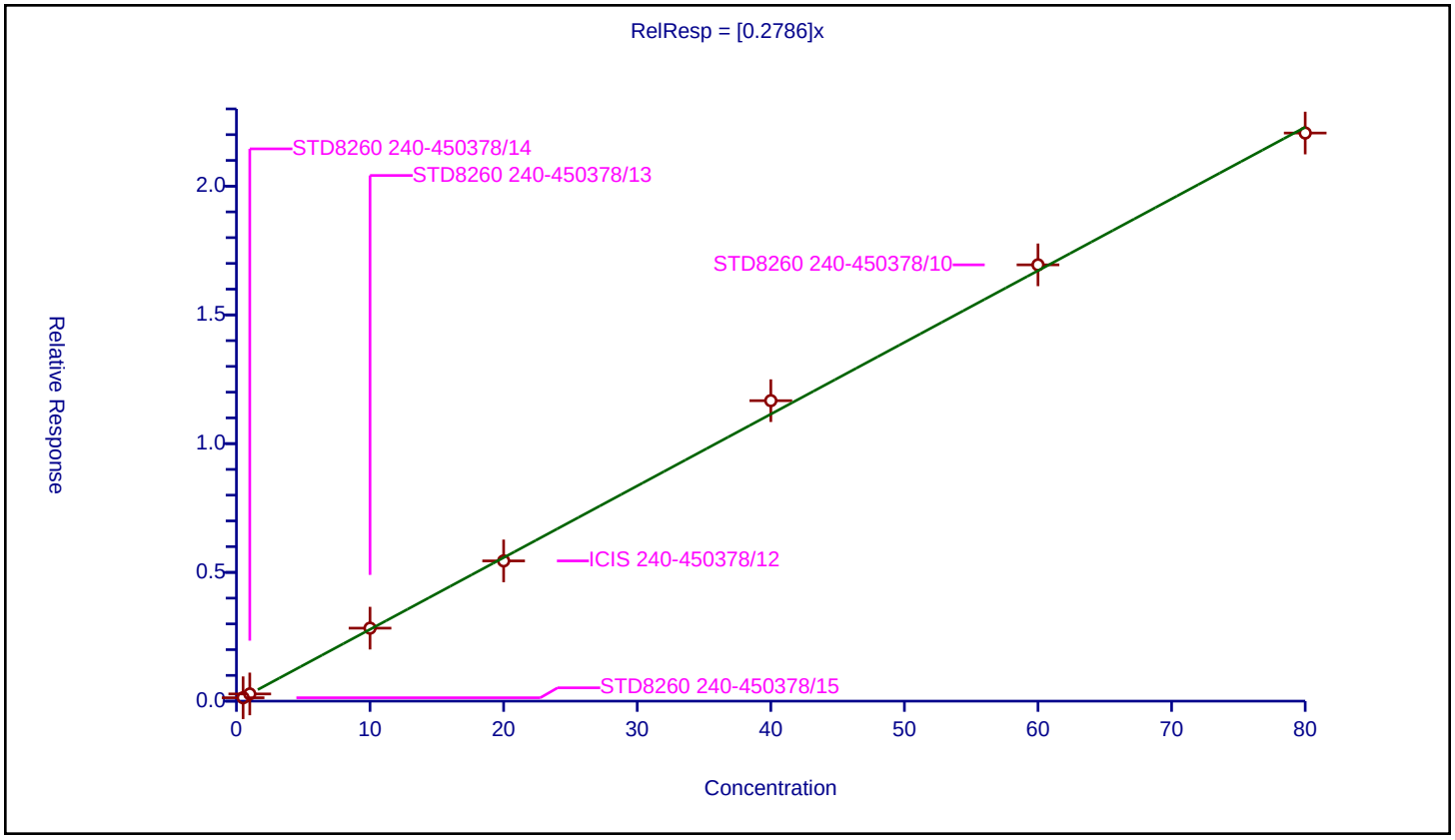
Curve Coefficients

Intercept:	0
Slope:	0.2786

Error Coefficients

Standard Error:	629000
Relative Standard Error:	3.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.132272	20.0	841447.0	0.264544	Y
2	STD8260 240-450378/14	1.0	0.280246	20.0	857034.0	0.280246	Y
3	STD8260 240-450378/13	10.0	2.834533	20.0	949906.0	0.283453	Y
4	ICIS 240-450378/12	20.0	5.446009	20.0	955305.0	0.2723	Y
5	STD8260 240-450378/11	40.0	11.668959	20.0	985207.0	0.291724	Y
6	STD8260 240-450378/10	60.0	16.943473	20.0	986335.0	0.282391	Y
7	STD8260 240-450378/9	80.0	22.062381	20.0	1016272.0	0.27578	Y



Calibration / n-Heptane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

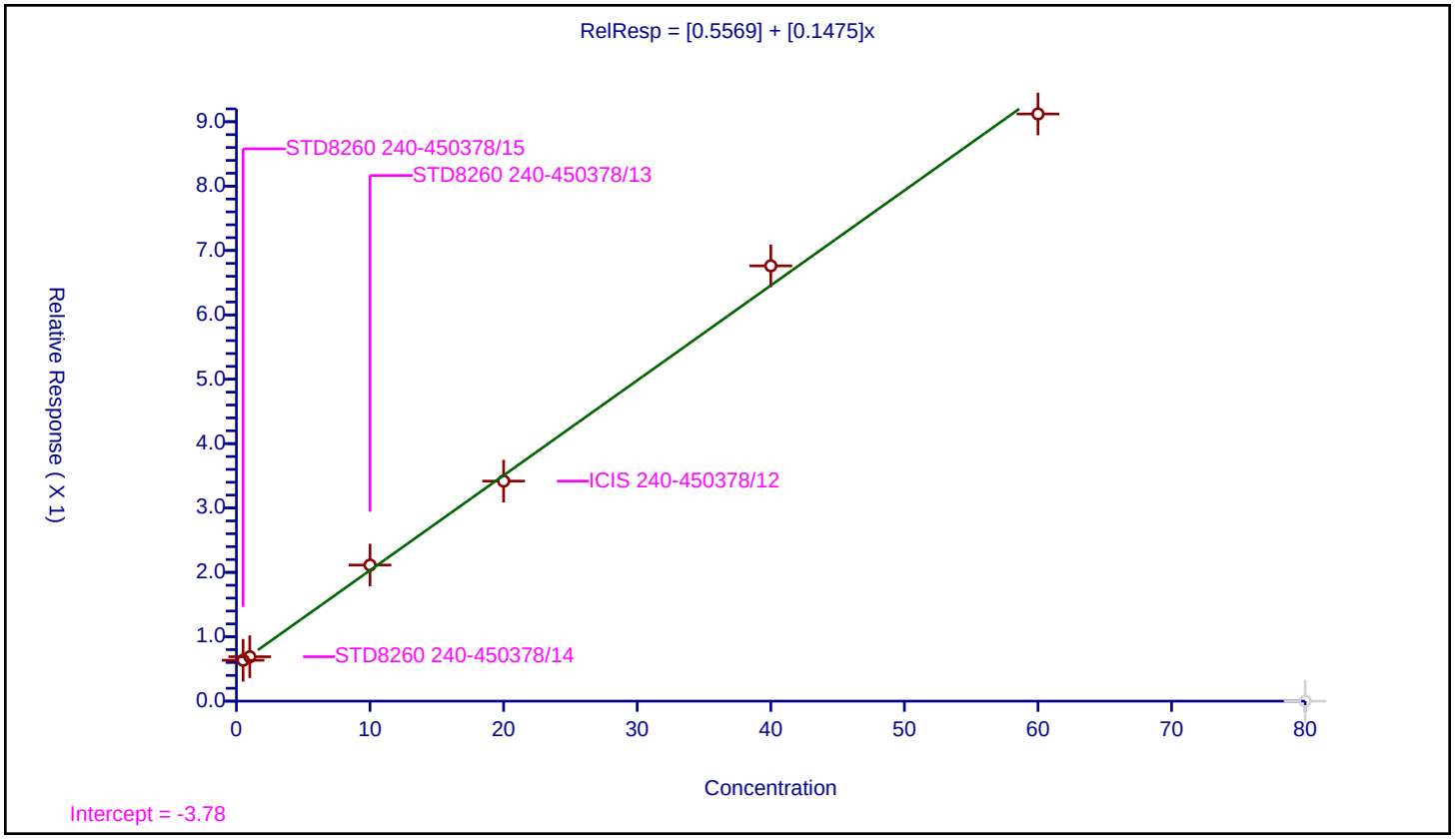
Curve Coefficients

Intercept:	0.5569
Slope:	0.1475

Error Coefficients

Standard Error:	296000
Relative Standard Error:	7.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.634787	20.0	841447.0	1.269575	Y
2	STD8260 240-450378/14	1.0	0.689704	20.0	857034.0	0.689704	Y
3	STD8260 240-450378/13	10.0	2.113851	20.0	949906.0	0.211385	Y
4	ICIS 240-450378/12	20.0	3.418133	20.0	955305.0	0.170907	Y
5	STD8260 240-450378/11	40.0	6.76201	20.0	985207.0	0.16905	Y
6	STD8260 240-450378/10	60.0	9.1211	20.0	986335.0	0.152018	Y
7	STD8260 240-450378/9	80.0	0.0	20.0	1016272.0	0.0	N



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

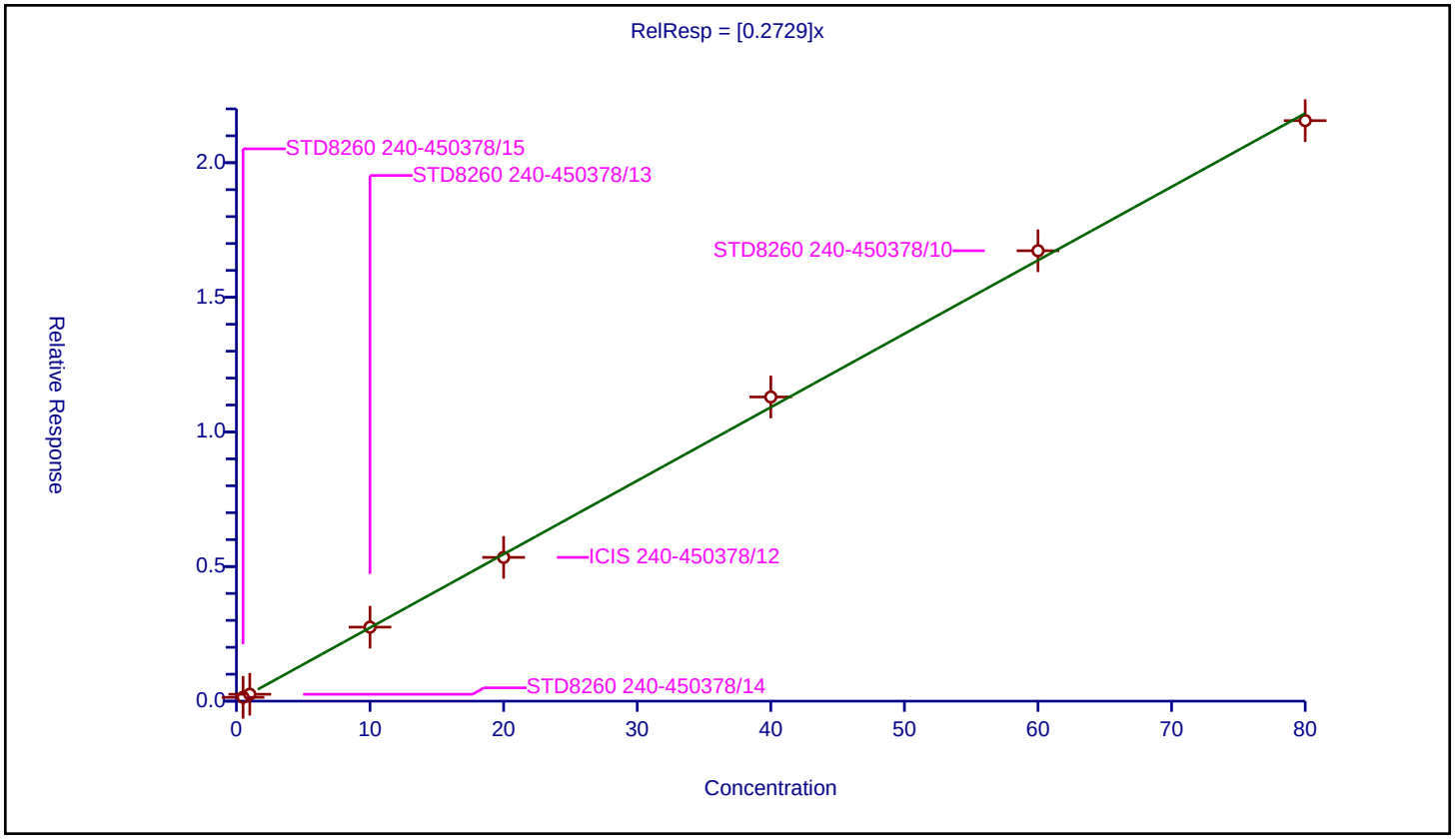
Curve Coefficients

Intercept:	0
Slope:	0.2729

Error Coefficients

Standard Error:	616000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.140924	20.0	841447.0	0.281848	Y
2	STD8260 240-450378/14	1.0	0.255859	20.0	857034.0	0.255859	Y
3	STD8260 240-450378/13	10.0	2.749198	20.0	949906.0	0.27492	Y
4	ICIS 240-450378/12	20.0	5.340577	20.0	955305.0	0.267029	Y
5	STD8260 240-450378/11	40.0	11.299006	20.0	985207.0	0.282475	Y
6	STD8260 240-450378/10	60.0	16.730847	20.0	986335.0	0.278847	Y
7	STD8260 240-450378/9	80.0	21.563971	20.0	1016272.0	0.26955	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

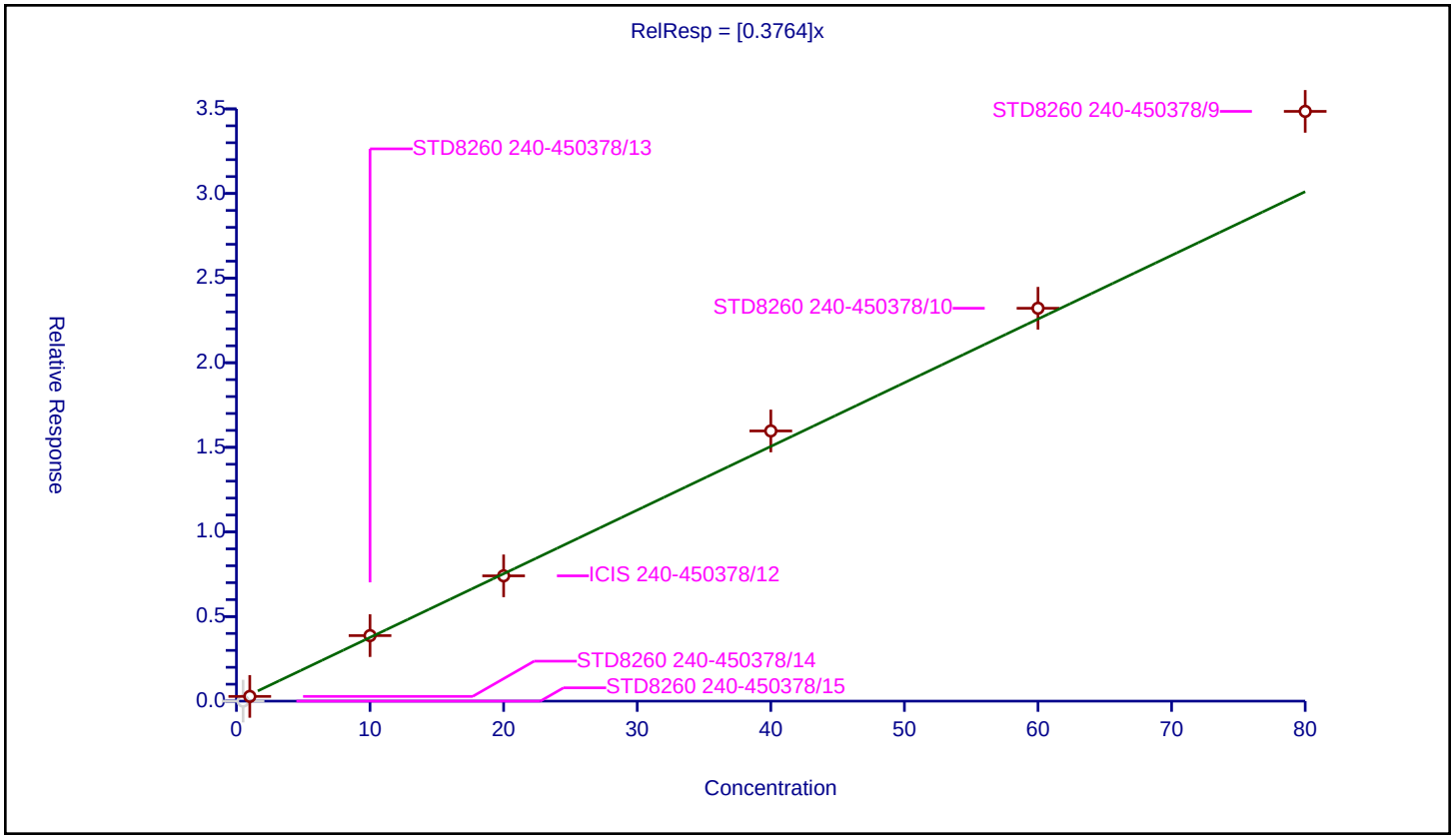
Curve Coefficients

Intercept:	0
Slope:	0.3764

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	14.0
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	1.0	0.278822	20.0	857034.0	0.278822	Y
3	STD8260 240-450378/13	10.0	3.872131	20.0	949906.0	0.387213	Y
4	ICIS 240-450378/12	20.0	7.404965	20.0	955305.0	0.370248	Y
5	STD8260 240-450378/11	40.0	15.967507	20.0	985207.0	0.399188	Y
6	STD8260 240-450378/10	60.0	23.219089	20.0	986335.0	0.386985	Y
7	STD8260 240-450378/9	80.0	34.853504	20.0	1016272.0	0.435669	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

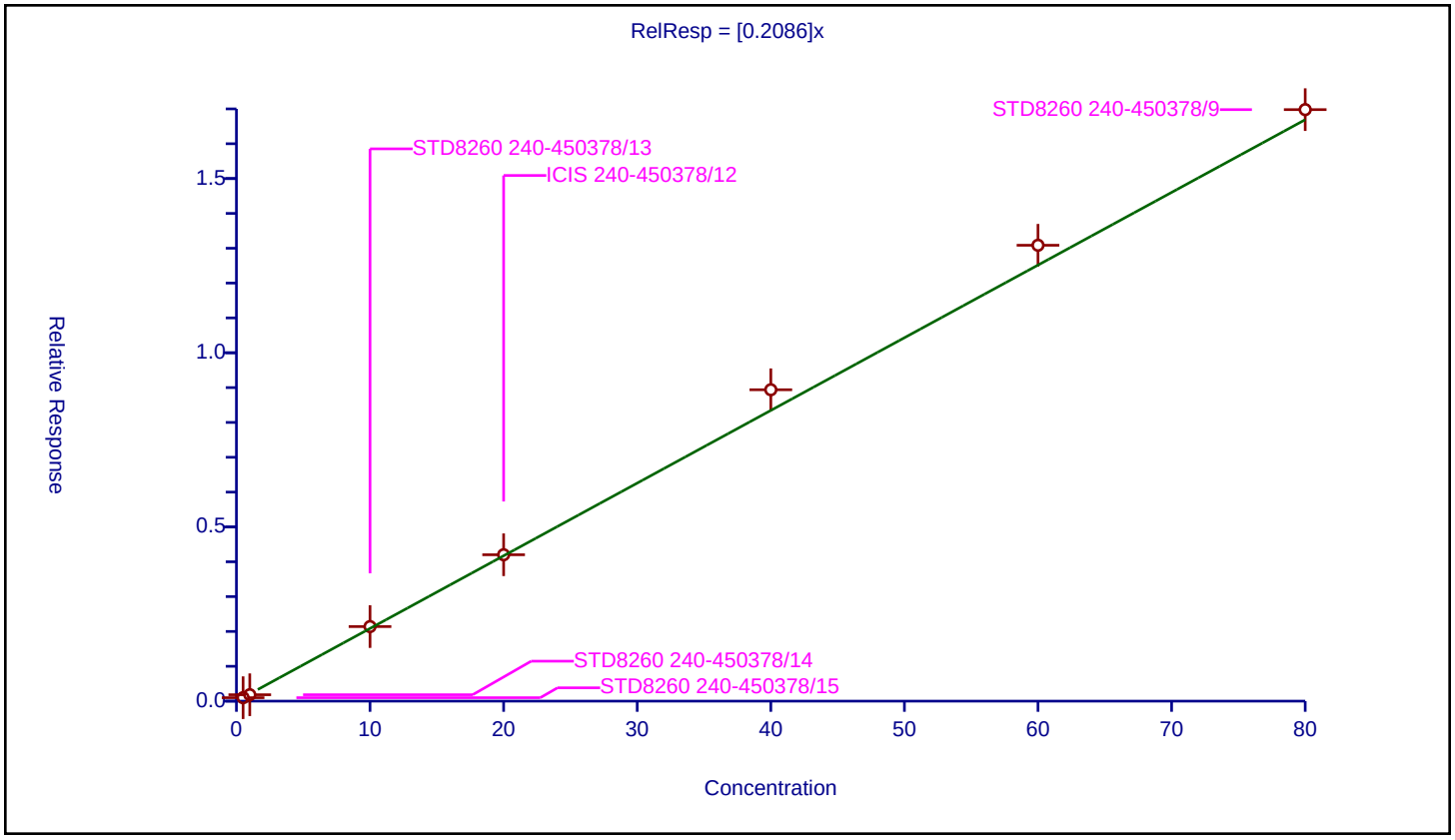
Curve Coefficients

Intercept:	0
Slope:	0.2086

Error Coefficients

Standard Error:	484000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.099186	20.0	841447.0	0.198373	Y
2	STD8260 240-450378/14	1.0	0.184053	20.0	857034.0	0.184053	Y
3	STD8260 240-450378/13	10.0	2.139875	20.0	949906.0	0.213987	Y
4	ICIS 240-450378/12	20.0	4.202344	20.0	955305.0	0.210117	Y
5	STD8260 240-450378/11	40.0	8.938183	20.0	985207.0	0.223455	Y
6	STD8260 240-450378/10	60.0	13.085392	20.0	986335.0	0.21809	Y
7	STD8260 240-450378/9	80.0	16.978644	20.0	1016272.0	0.212233	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

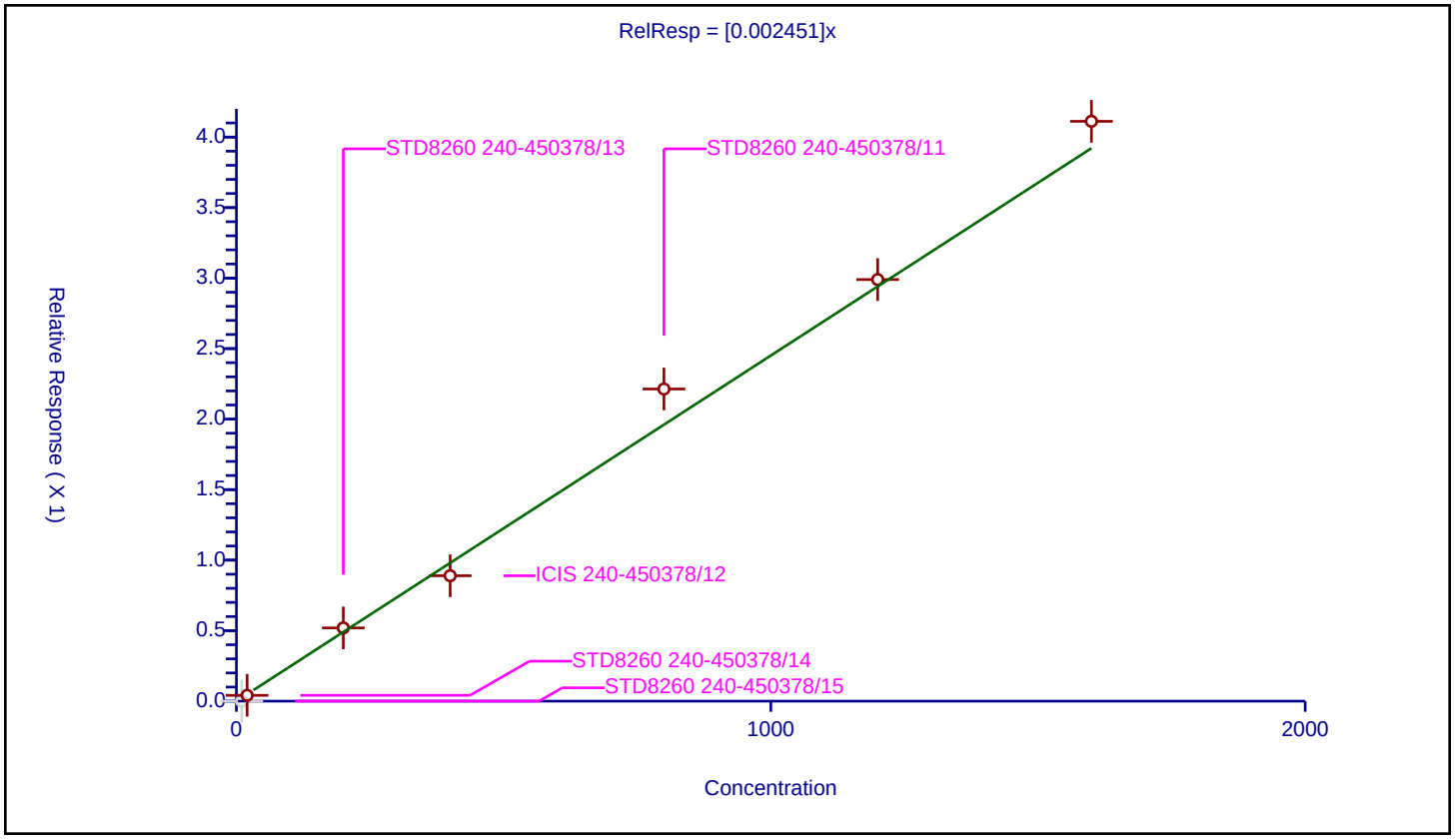
Curve Coefficients

Intercept:	0
Slope:	0.002451

Error Coefficients

Standard Error:	126000
Relative Standard Error:	10.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	10.0	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	20.0	0.041119	20.0	857034.0	0.002056	Y
3	STD8260 240-450378/13	200.0	0.519336	20.0	949906.0	0.002597	Y
4	ICIS 240-450378/12	400.0	0.889308	20.0	955305.0	0.002223	Y
5	STD8260 240-450378/11	800.0	2.213484	20.0	985207.0	0.002767	Y
6	STD8260 240-450378/10	1200.0	2.989836	20.0	986335.0	0.002492	Y
7	STD8260 240-450378/9	1600.0	4.111872	20.0	1016272.0	0.00257	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

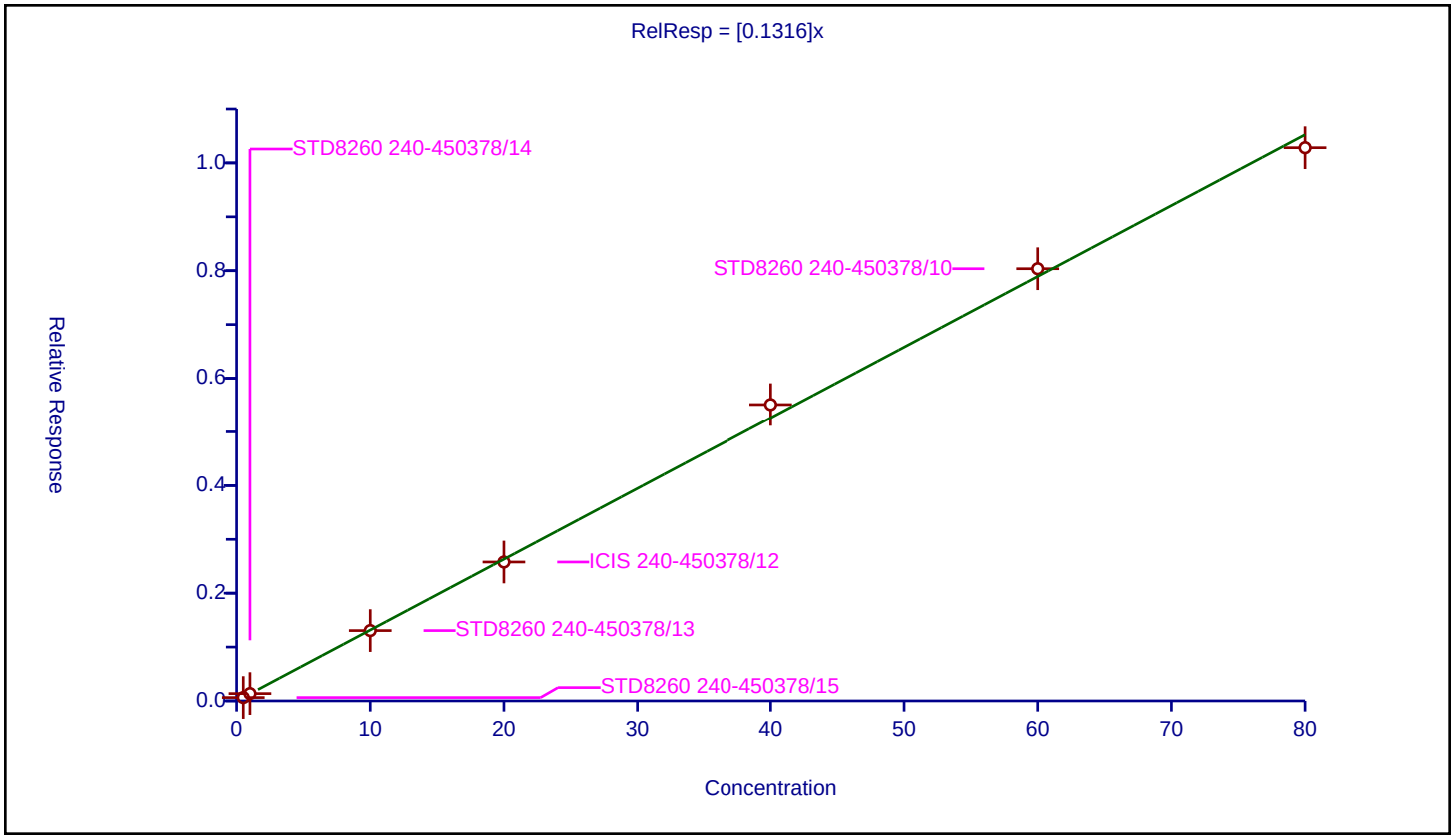
Curve Coefficients

Intercept:	0
Slope:	0.1316

Error Coefficients

Standard Error:	295000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.062511	20.0	841447.0	0.125023	Y
2	STD8260 240-450378/14	1.0	0.136144	20.0	857034.0	0.136144	Y
3	STD8260 240-450378/13	10.0	1.305519	20.0	949906.0	0.130552	Y
4	ICIS 240-450378/12	20.0	2.578799	20.0	955305.0	0.12894	Y
5	STD8260 240-450378/11	40.0	5.510253	20.0	985207.0	0.137756	Y
6	STD8260 240-450378/10	60.0	8.037533	20.0	986335.0	0.133959	Y
7	STD8260 240-450378/9	80.0	10.282523	20.0	1016272.0	0.128532	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

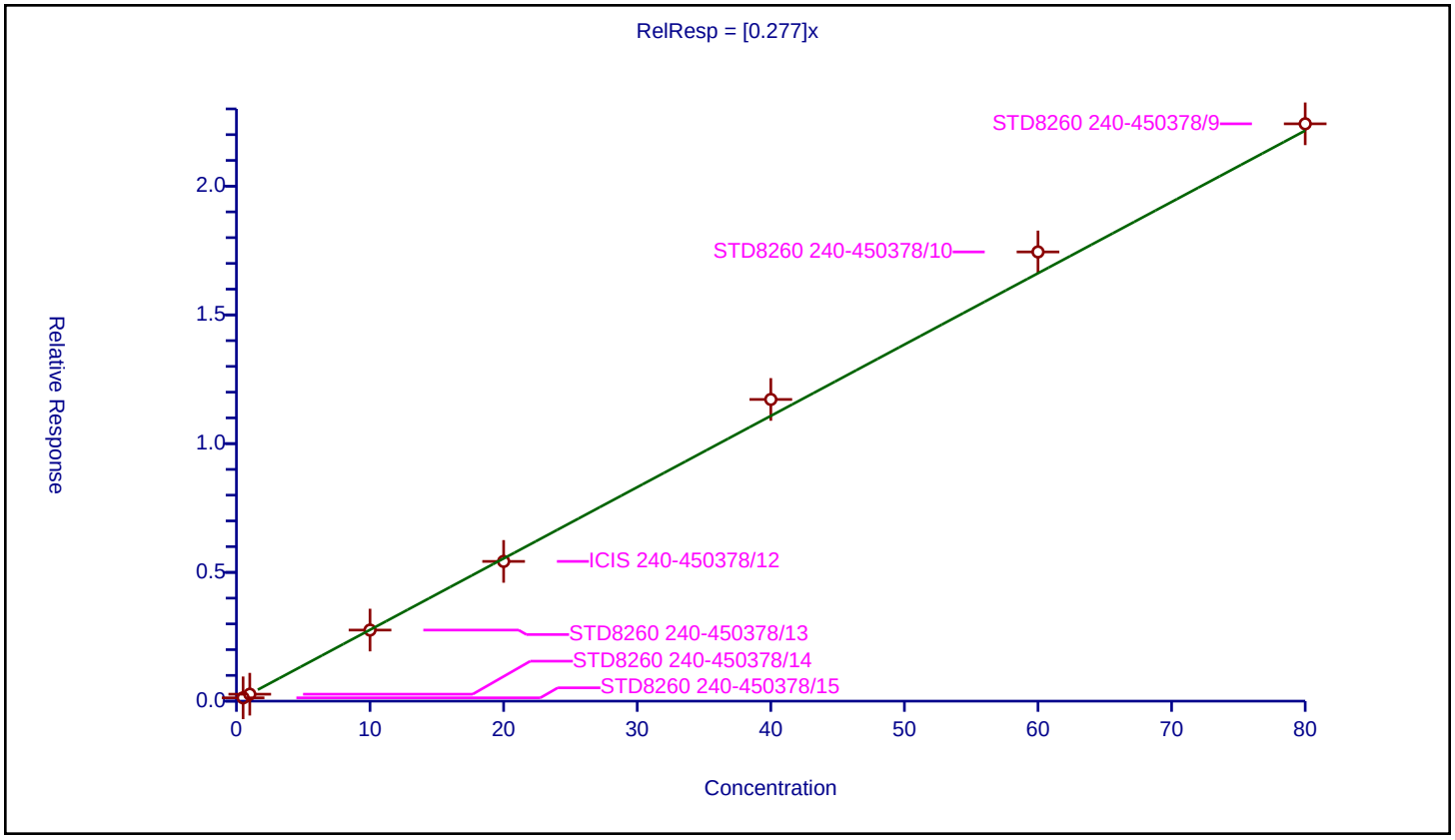
Curve Coefficients

Intercept:	0
Slope:	0.277

Error Coefficients

Standard Error:	640000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.129016	20.0	841447.0	0.258032	Y
2	STD8260 240-450378/14	1.0	0.269418	20.0	857034.0	0.269418	Y
3	STD8260 240-450378/13	10.0	2.760042	20.0	949906.0	0.276004	Y
4	ICIS 240-450378/12	20.0	5.426811	20.0	955305.0	0.271341	Y
5	STD8260 240-450378/11	40.0	11.716259	20.0	985207.0	0.292906	Y
6	STD8260 240-450378/10	60.0	17.445533	20.0	986335.0	0.290759	Y
7	STD8260 240-450378/9	80.0	22.420828	20.0	1016272.0	0.28026	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

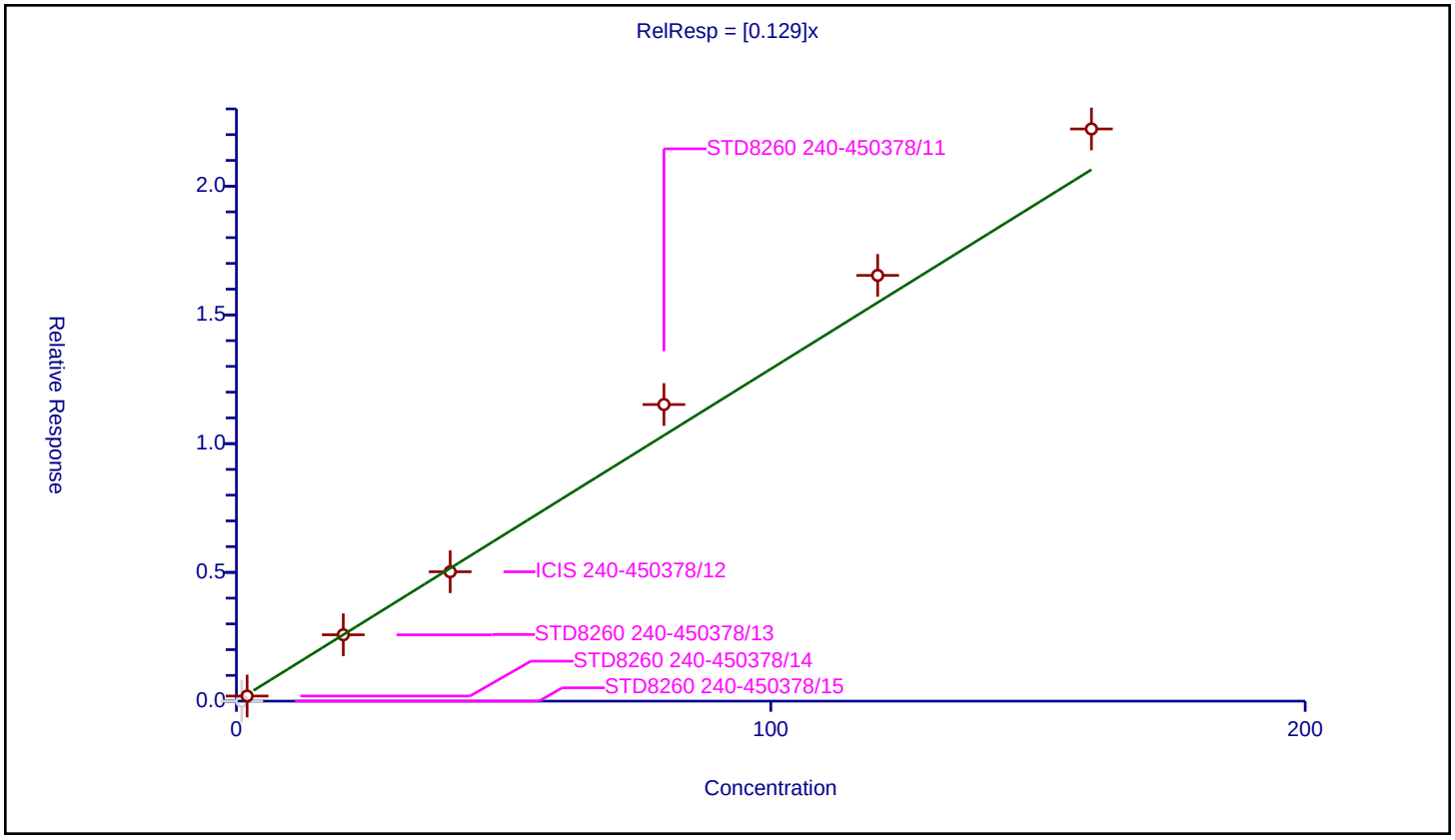
Curve Coefficients

Intercept:	0
Slope:	0.129

Error Coefficients

Standard Error:	683000
Relative Standard Error:	12.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	2.0	0.197798	20.0	857034.0	0.098899	Y
3	STD8260 240-450378/13	20.0	2.577308	20.0	949906.0	0.128865	Y
4	ICIS 240-450378/12	40.0	5.024134	20.0	955305.0	0.125603	Y
5	STD8260 240-450378/11	80.0	11.519285	20.0	985207.0	0.143991	Y
6	STD8260 240-450378/10	120.0	16.534038	20.0	986335.0	0.137784	Y
7	STD8260 240-450378/9	160.0	22.220961	20.0	1016272.0	0.138881	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

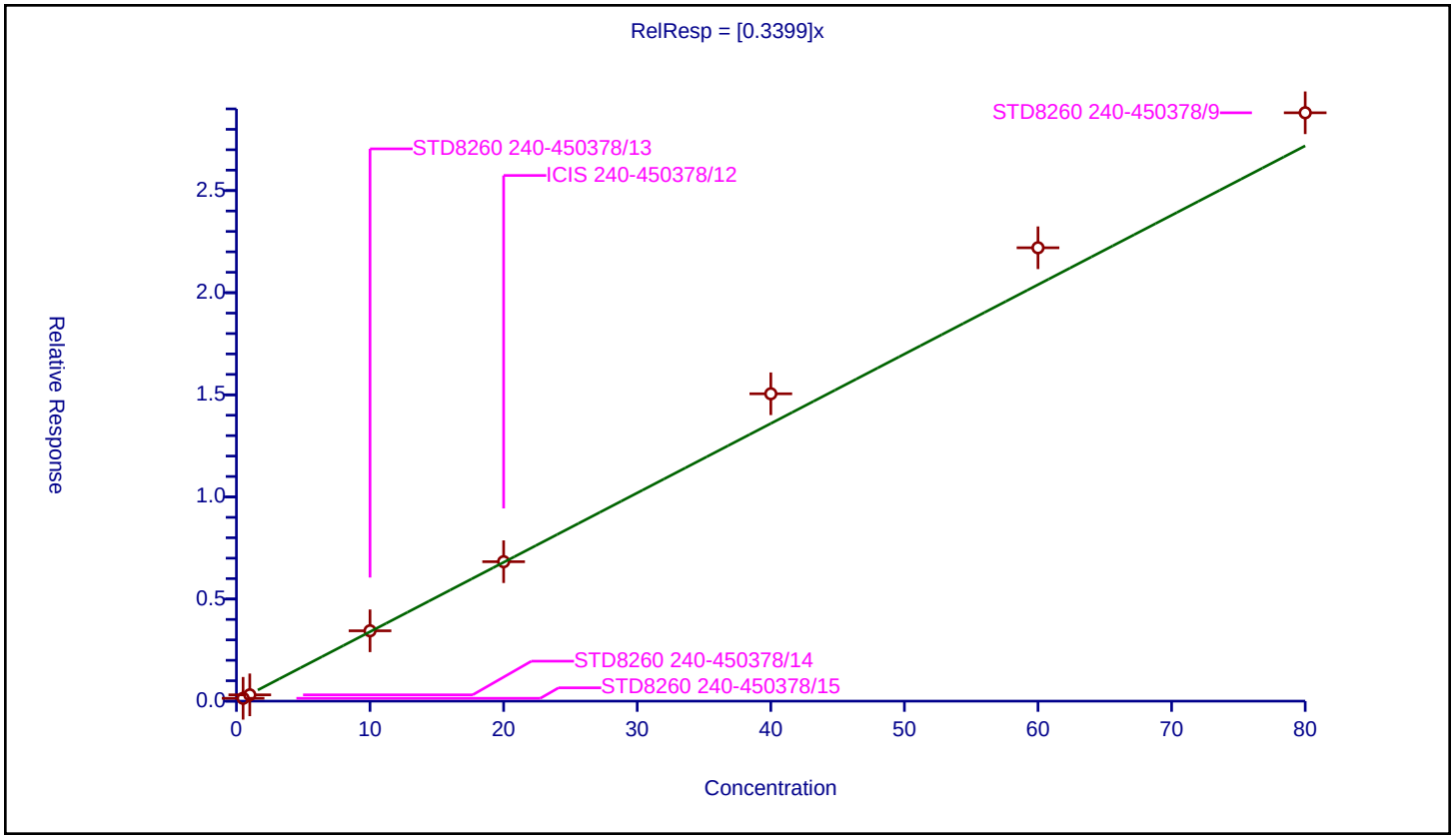
Curve Coefficients

Intercept:	0
Slope:	0.3399

Error Coefficients

Standard Error:	819000
Relative Standard Error:	10.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.139189	20.0	841447.0	0.278378	Y
2	STD8260 240-450378/14	1.0	0.308669	20.0	857034.0	0.308669	Y
3	STD8260 240-450378/13	10.0	3.444488	20.0	949906.0	0.344449	Y
4	ICIS 240-450378/12	20.0	6.8276	20.0	955305.0	0.34138	Y
5	STD8260 240-450378/11	40.0	15.050908	20.0	985207.0	0.376273	Y
6	STD8260 240-450378/10	60.0	22.199577	20.0	986335.0	0.369993	Y
7	STD8260 240-450378/9	80.0	28.809964	20.0	1016272.0	0.360125	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

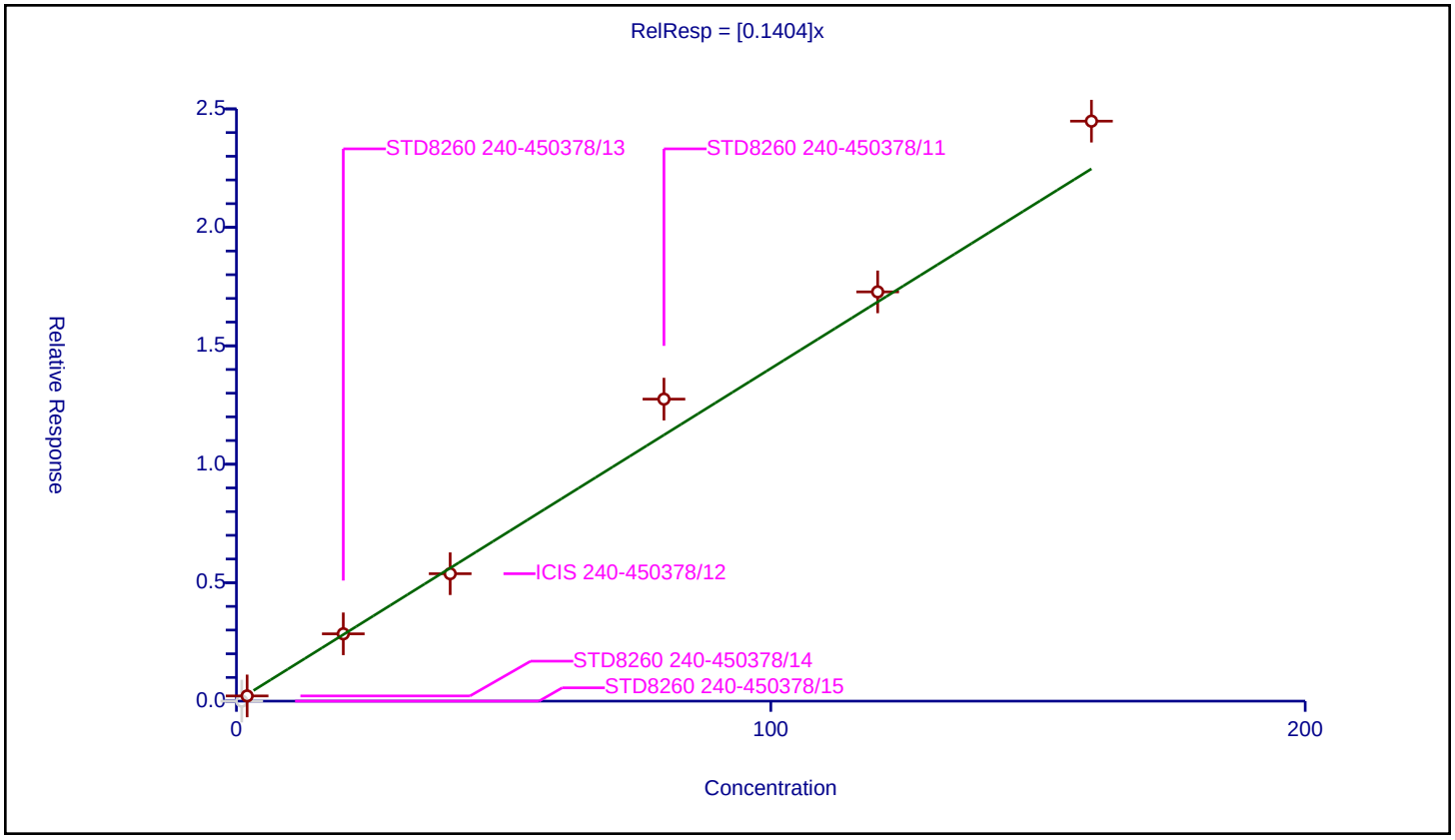
Curve Coefficients

Intercept:	0
Slope:	0.1404

Error Coefficients

Standard Error:	742000
Relative Standard Error:	12.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.0	20.0	841447.0	0.0	N
2	STD8260 240-450378/14	2.0	0.219501	20.0	857034.0	0.109751	Y
3	STD8260 240-450378/13	20.0	2.841502	20.0	949906.0	0.142075	Y
4	ICIS 240-450378/12	40.0	5.378931	20.0	955305.0	0.134473	Y
5	STD8260 240-450378/11	80.0	12.748651	20.0	985207.0	0.159358	Y
6	STD8260 240-450378/10	120.0	17.275875	20.0	986335.0	0.143966	Y
7	STD8260 240-450378/9	160.0	24.482698	20.0	1016272.0	0.153017	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

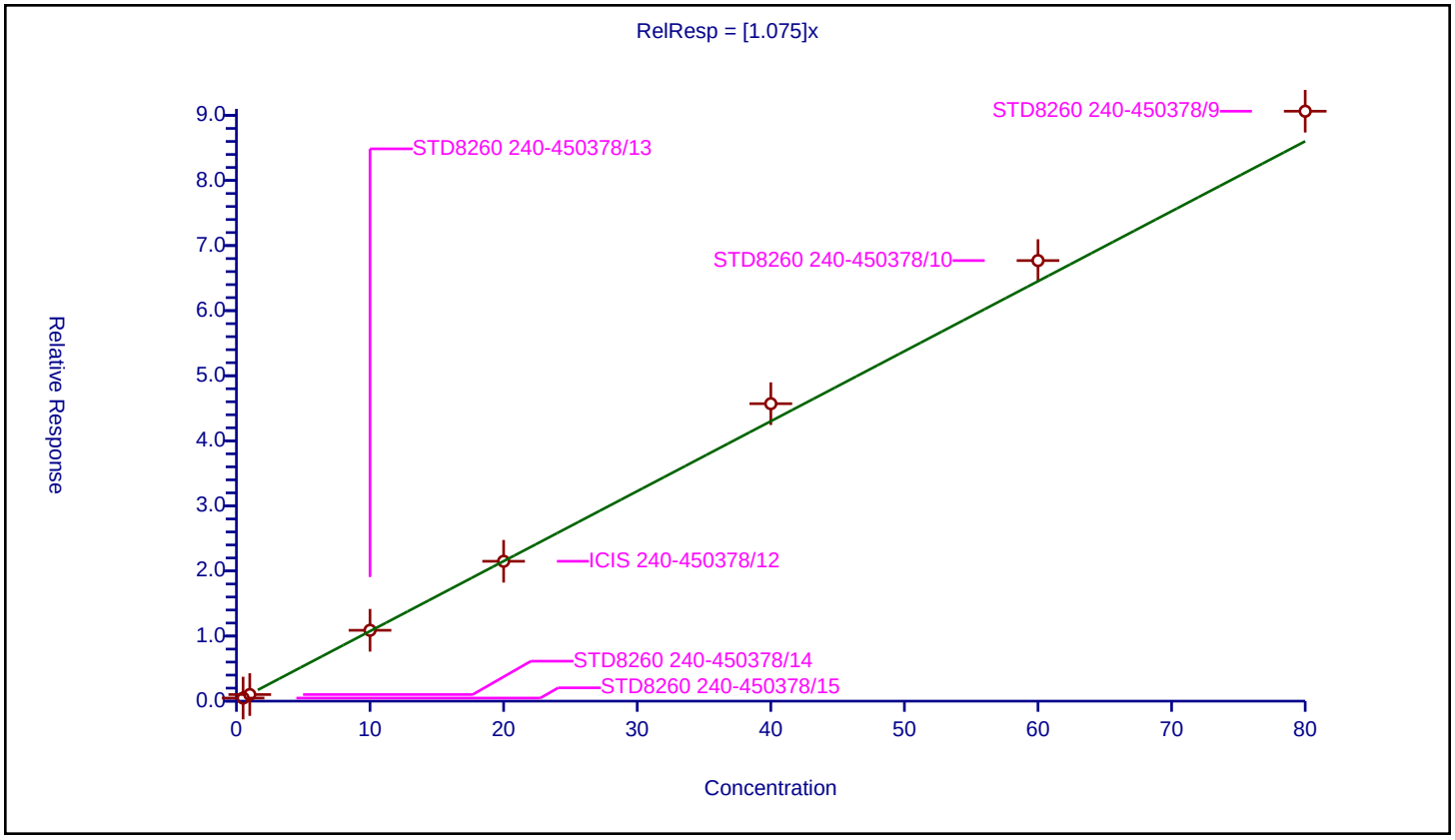
Curve Coefficients

Intercept:	0
Slope:	1.075

Error Coefficients

Standard Error:	1960000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.473113	20.0	695225.0	0.946226	Y
2	STD8260 240-450378/14	1.0	1.013947	20.0	706605.0	1.013947	Y
3	STD8260 240-450378/13	10.0	10.887467	20.0	754124.0	1.088747	Y
4	ICIS 240-450378/12	20.0	21.49142	20.0	743399.0	1.074571	Y
5	STD8260 240-450378/11	40.0	45.704123	20.0	768658.0	1.142603	Y
6	STD8260 240-450378/10	60.0	67.693124	20.0	763435.0	1.128219	Y
7	STD8260 240-450378/9	80.0	90.643941	20.0	778146.0	1.133049	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

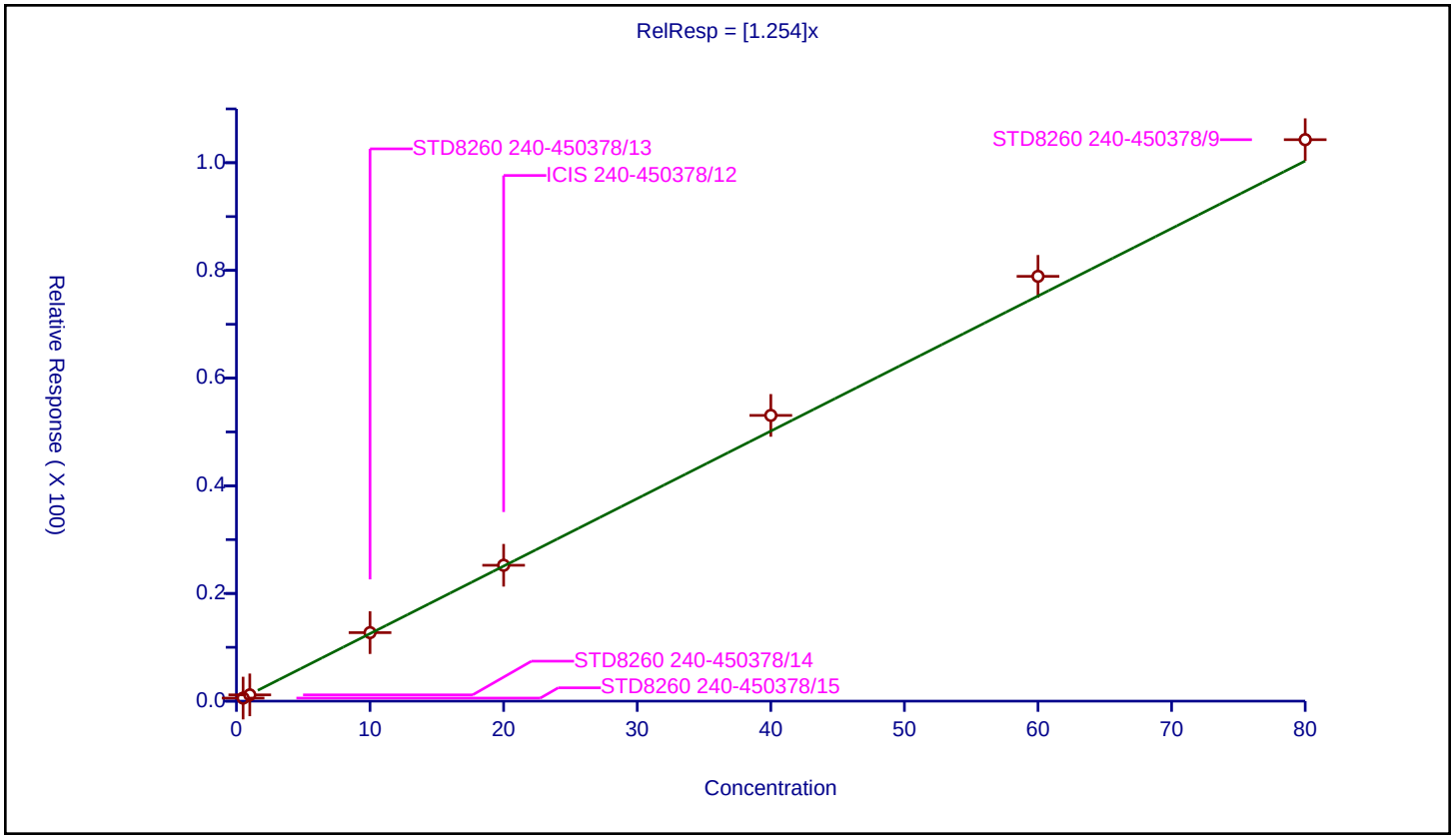
Curve Coefficients

Intercept:	0
Slope:	1.254

Error Coefficients

Standard Error:	2270000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.567557	20.0	695225.0	1.135115	Y
2	STD8260 240-450378/14	1.0	1.163564	20.0	706605.0	1.163564	Y
3	STD8260 240-450378/13	10.0	12.725944	20.0	754124.0	1.272594	Y
4	ICIS 240-450378/12	20.0	25.237026	20.0	743399.0	1.261851	Y
5	STD8260 240-450378/11	40.0	53.072836	20.0	768658.0	1.326821	Y
6	STD8260 240-450378/10	60.0	78.900496	20.0	763435.0	1.315008	Y
7	STD8260 240-450378/9	80.0	104.282615	20.0	778146.0	1.303533	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

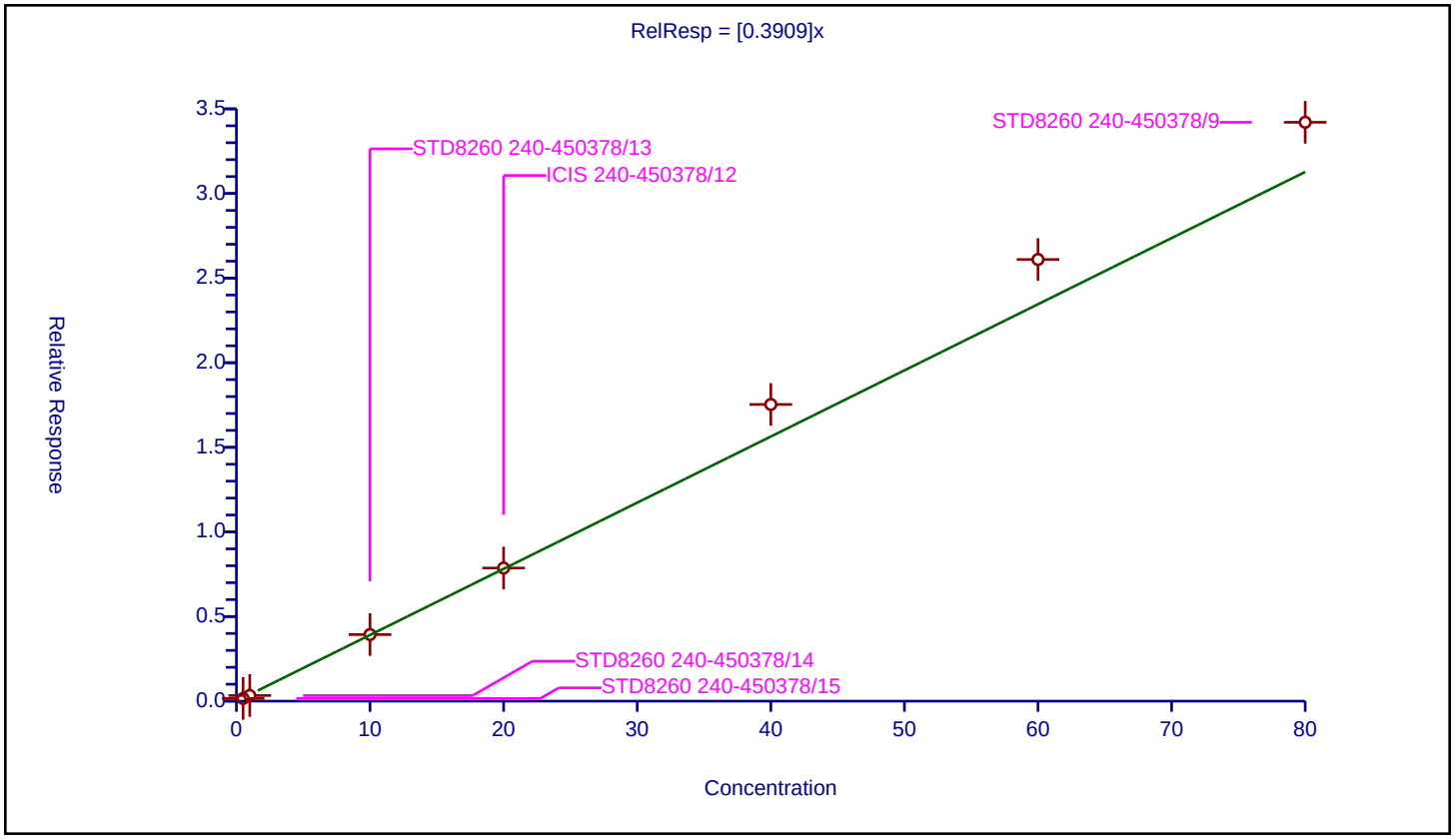
Curve Coefficients

Intercept:	0
Slope:	0.3909

Error Coefficients

Standard Error:	744000
Relative Standard Error:	12.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.158193	20.0	695225.0	0.316387	Y
2	STD8260 240-450378/14	1.0	0.332491	20.0	706605.0	0.332491	Y
3	STD8260 240-450378/13	10.0	3.934287	20.0	754124.0	0.393429	Y
4	ICIS 240-450378/12	20.0	7.865951	20.0	743399.0	0.393298	Y
5	STD8260 240-450378/11	40.0	17.53404	20.0	768658.0	0.438351	Y
6	STD8260 240-450378/10	60.0	26.099589	20.0	763435.0	0.434993	Y
7	STD8260 240-450378/9	80.0	34.207591	20.0	778146.0	0.427595	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

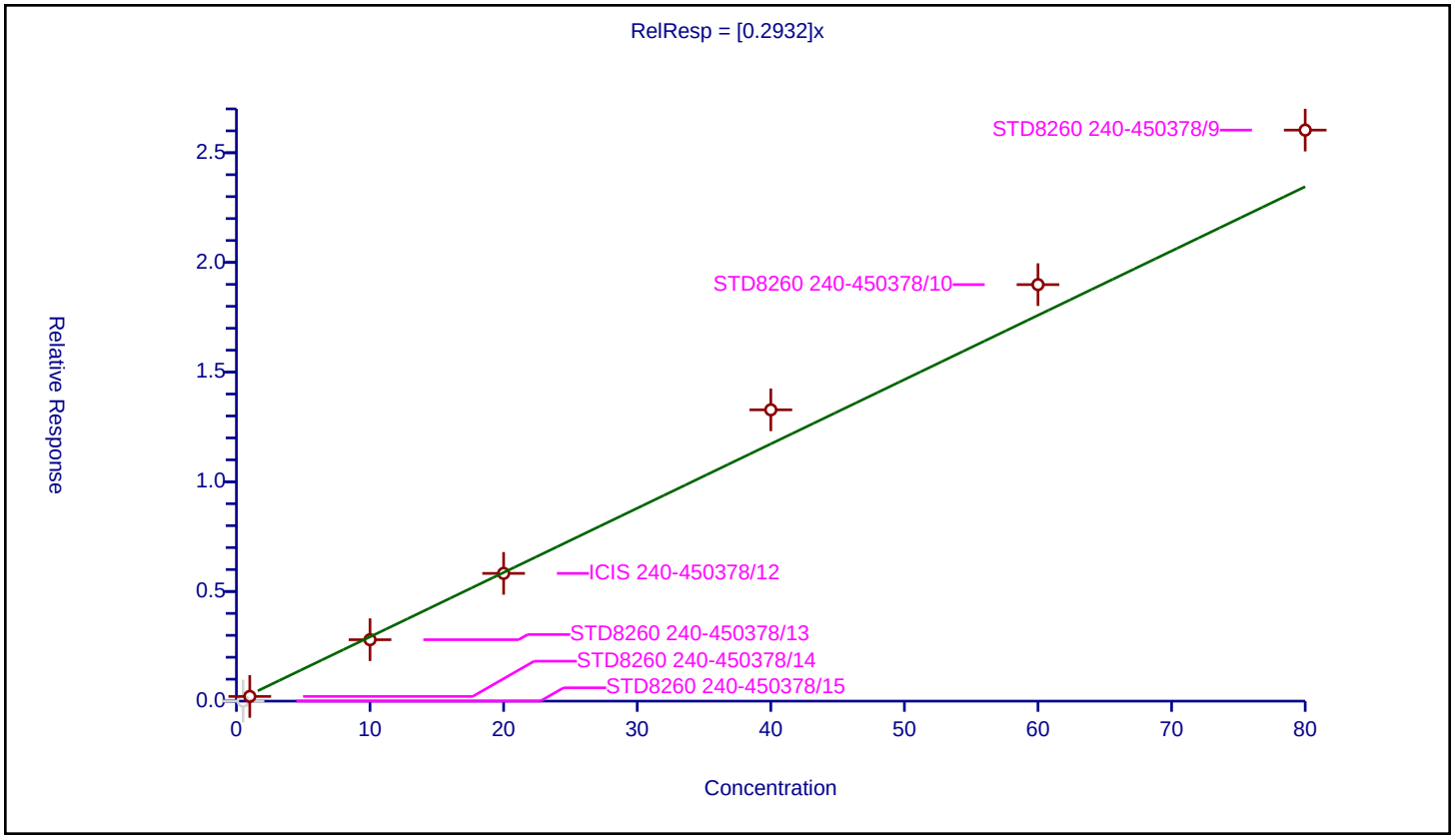
Curve Coefficients

Intercept:	0
Slope:	0.2932

Error Coefficients

Standard Error:	612000
Relative Standard Error:	14.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	695225.0	0.0	N
2	STD8260 240-450378/14	1.0	0.213868	20.0	706605.0	0.213868	Y
3	STD8260 240-450378/13	10.0	2.801157	20.0	754124.0	0.280116	Y
4	ICIS 240-450378/12	20.0	5.823871	20.0	743399.0	0.291194	Y
5	STD8260 240-450378/11	40.0	13.280809	20.0	768658.0	0.33202	Y
6	STD8260 240-450378/10	60.0	18.98886	20.0	763435.0	0.316481	Y
7	STD8260 240-450378/9	80.0	26.033007	20.0	778146.0	0.325413	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

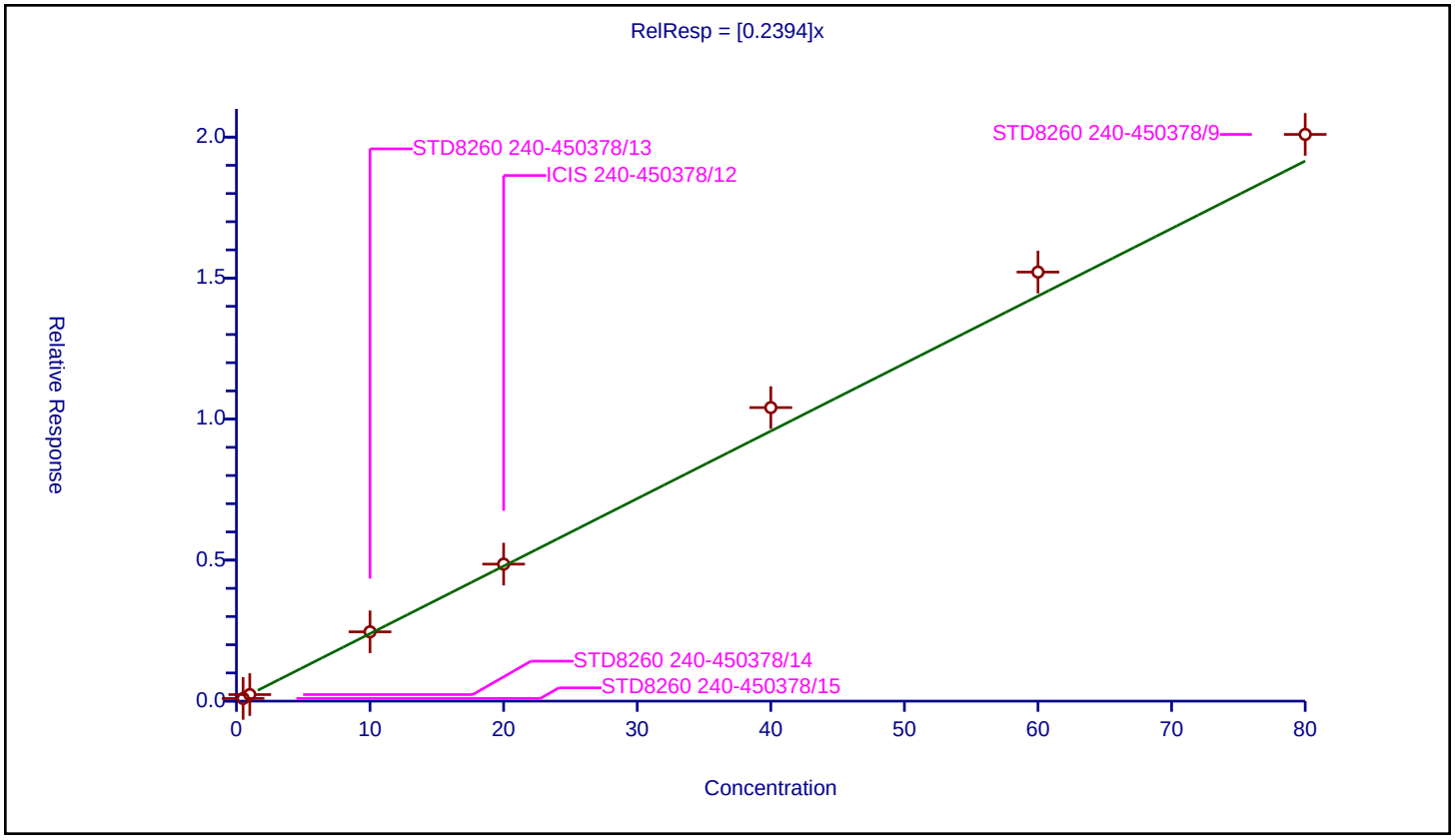
Curve Coefficients

Intercept:	0
Slope:	0.2394

Error Coefficients

Standard Error:	438000
Relative Standard Error:	9.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.095077	20.0	695225.0	0.190154	Y
2	STD8260 240-450378/14	1.0	0.232039	20.0	706605.0	0.232039	Y
3	STD8260 240-450378/13	10.0	2.457341	20.0	754124.0	0.245734	Y
4	ICIS 240-450378/12	20.0	4.858602	20.0	743399.0	0.24293	Y
5	STD8260 240-450378/11	40.0	10.408218	20.0	768658.0	0.260205	Y
6	STD8260 240-450378/10	60.0	15.213555	20.0	763435.0	0.253559	Y
7	STD8260 240-450378/9	80.0	20.095689	20.0	778146.0	0.251196	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

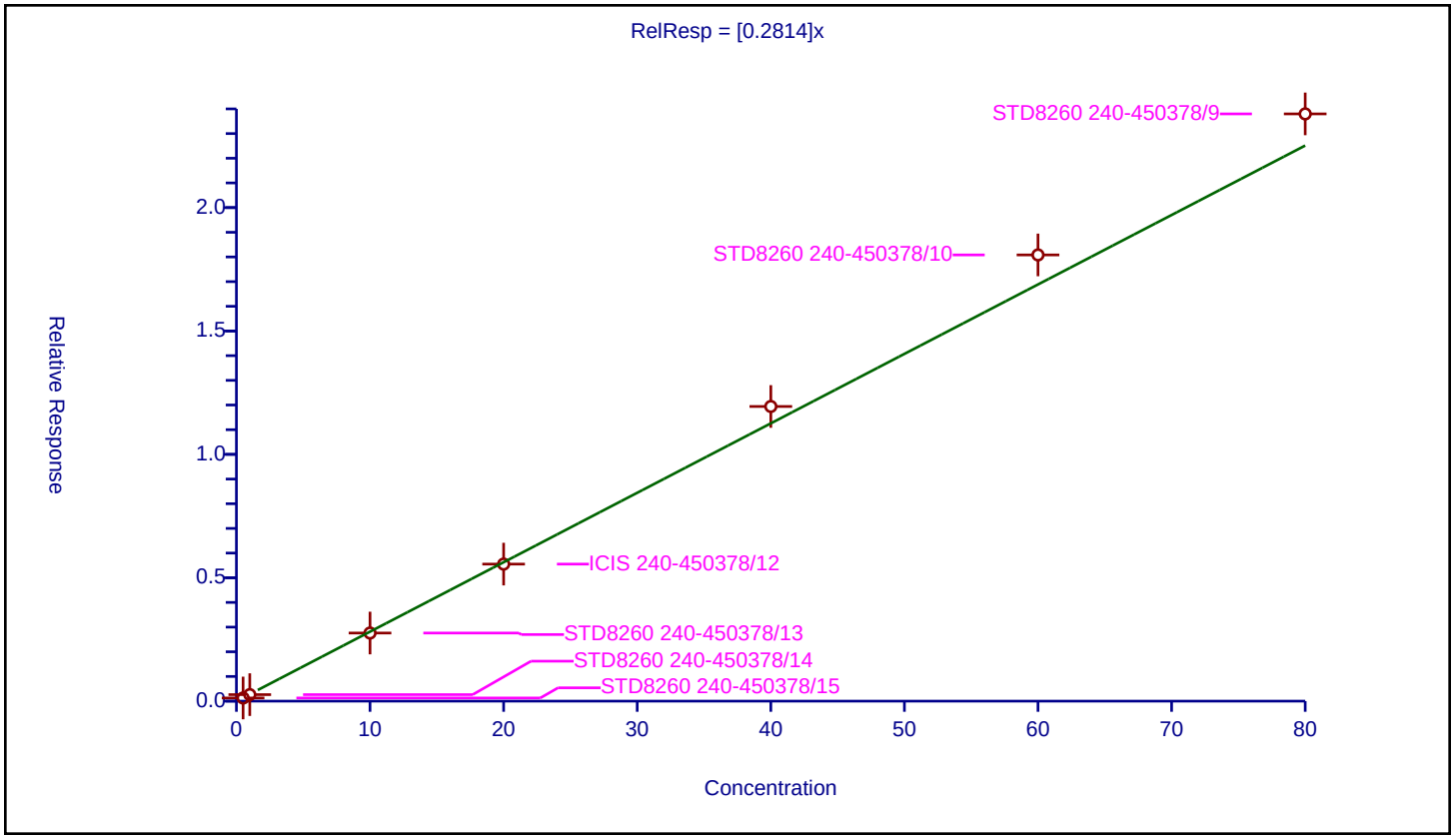
Curve Coefficients

Intercept:	0
Slope:	0.2814

Error Coefficients

Standard Error:	516000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.127498	20.0	695225.0	0.254997	Y
2	STD8260 240-450378/14	1.0	0.26391	20.0	706605.0	0.26391	Y
3	STD8260 240-450378/13	10.0	2.760713	20.0	754124.0	0.276071	Y
4	ICIS 240-450378/12	20.0	5.553142	20.0	743399.0	0.277657	Y
5	STD8260 240-450378/11	40.0	11.940941	20.0	768658.0	0.298524	Y
6	STD8260 240-450378/10	60.0	18.08209	20.0	763435.0	0.301368	Y
7	STD8260 240-450378/9	80.0	23.797051	20.0	778146.0	0.297463	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

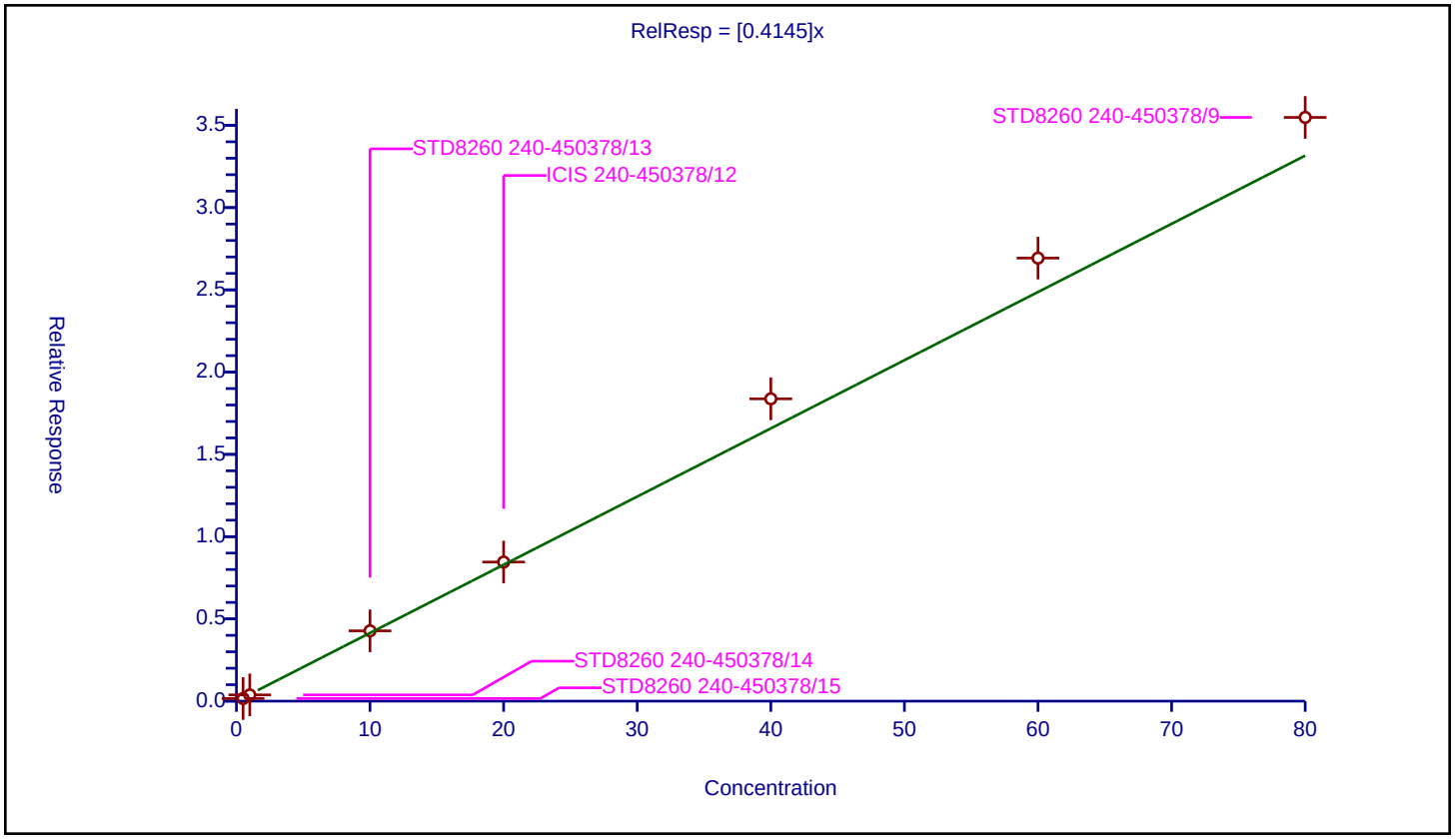
Curve Coefficients

Intercept:	0
Slope:	0.4145

Error Coefficients

Standard Error:	773000
Relative Standard Error:	11.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.160236	20.0	695225.0	0.320472	Y
2	STD8260 240-450378/14	1.0	0.37908	20.0	706605.0	0.37908	Y
3	STD8260 240-450378/13	10.0	4.272666	20.0	754124.0	0.427267	Y
4	ICIS 240-450378/12	20.0	8.454733	20.0	743399.0	0.422737	Y
5	STD8260 240-450378/11	40.0	18.377198	20.0	768658.0	0.45943	Y
6	STD8260 240-450378/10	60.0	26.930754	20.0	763435.0	0.448846	Y
7	STD8260 240-450378/9	80.0	35.481465	20.0	778146.0	0.443518	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

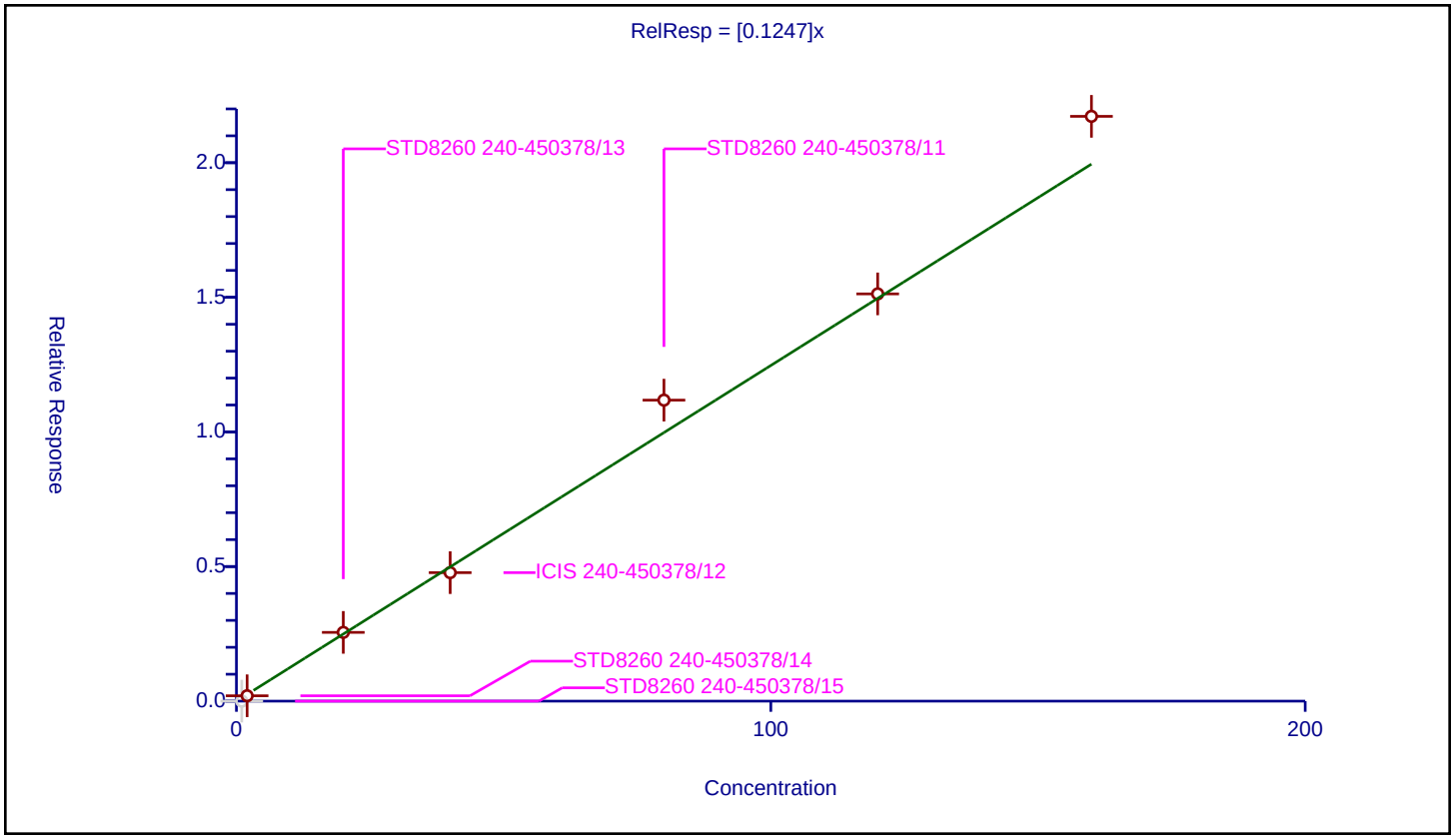
Curve Coefficients

Intercept:	0
Slope:	0.1247

Error Coefficients

Standard Error:	505000
Relative Standard Error:	11.5
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	1.0	0.0	20.0	695225.0	0.0	N
2	STD8260 240-450378/14	2.0	0.19898	20.0	706605.0	0.09949	Y
3	STD8260 240-450378/13	20.0	2.553824	20.0	754124.0	0.127691	Y
4	ICIS 240-450378/12	40.0	4.772861	20.0	743399.0	0.119322	Y
5	STD8260 240-450378/11	80.0	11.181149	20.0	768658.0	0.139764	Y
6	STD8260 240-450378/10	120.0	15.128282	20.0	763435.0	0.126069	Y
7	STD8260 240-450378/9	160.0	21.723404	20.0	778146.0	0.135771	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

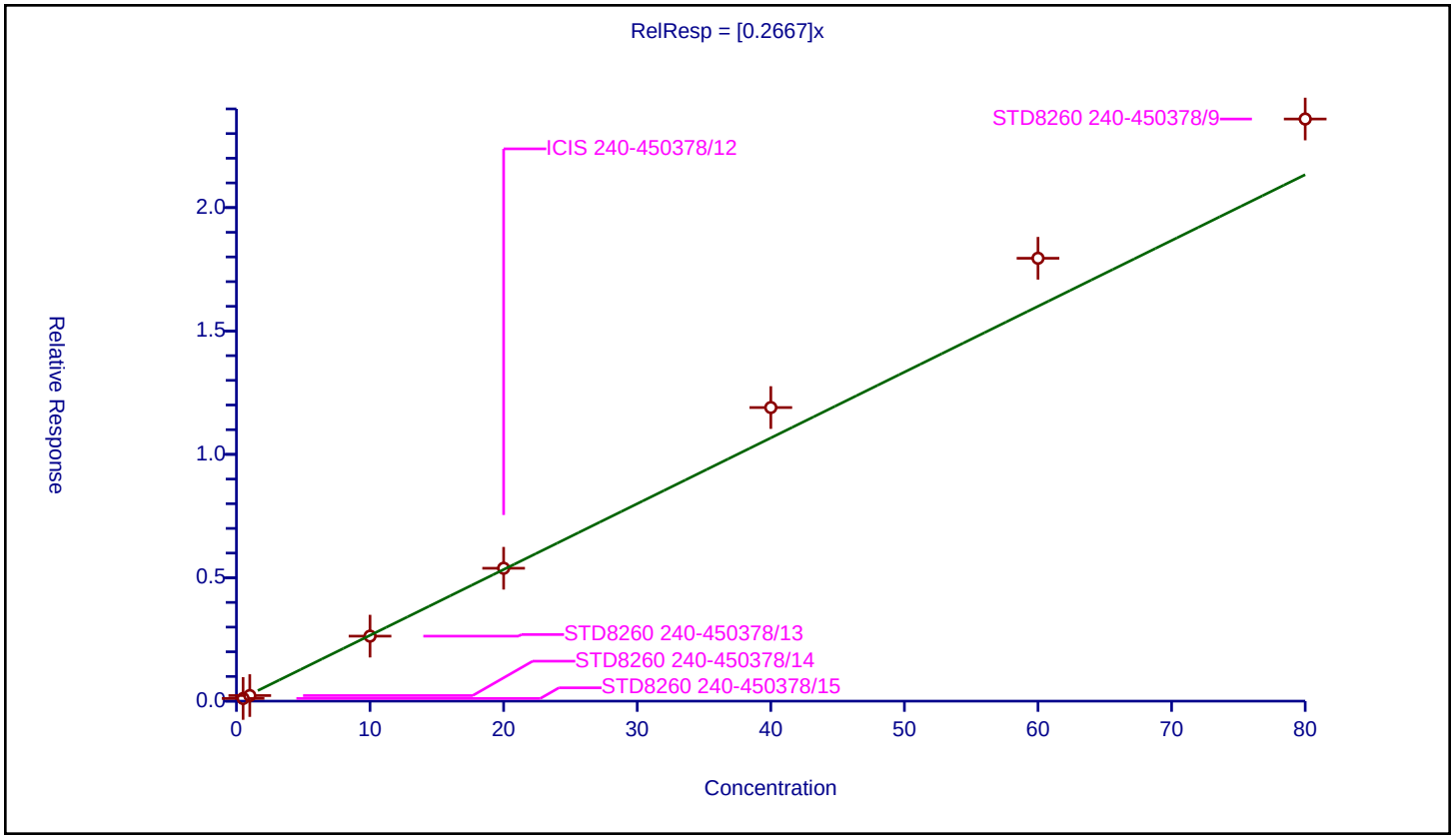
Curve Coefficients

Intercept:	0
Slope:	0.2667

Error Coefficients

Standard Error:	512000
Relative Standard Error:	12.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.108166	20.0	695225.0	0.216333	Y
2	STD8260 240-450378/14	1.0	0.226293	20.0	706605.0	0.226293	Y
3	STD8260 240-450378/13	10.0	2.634182	20.0	754124.0	0.263418	Y
4	ICIS 240-450378/12	20.0	5.385345	20.0	743399.0	0.269267	Y
5	STD8260 240-450378/11	40.0	11.897463	20.0	768658.0	0.297437	Y
6	STD8260 240-450378/10	60.0	17.947461	20.0	763435.0	0.299124	Y
7	STD8260 240-450378/9	80.0	23.589378	20.0	778146.0	0.294867	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

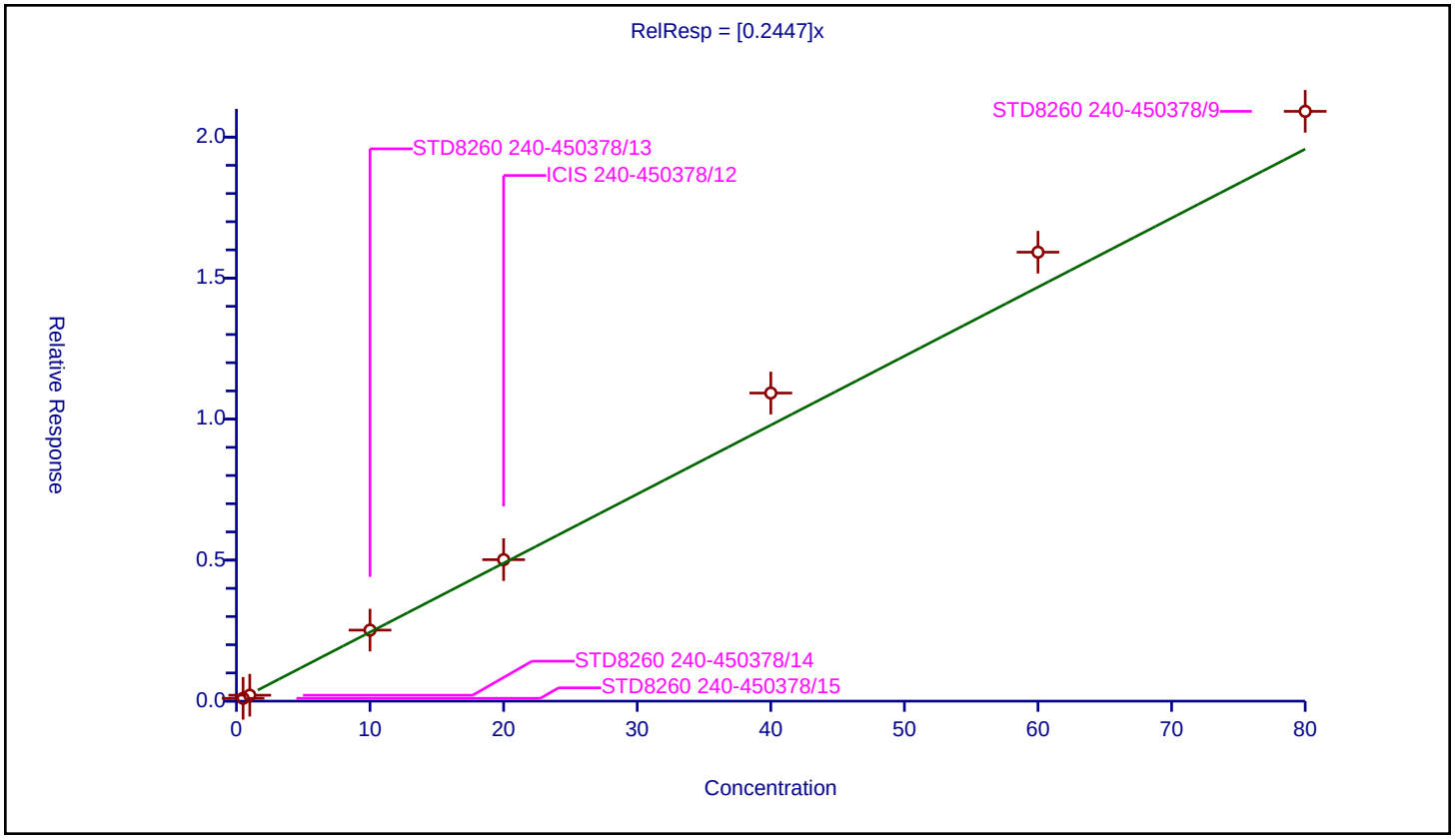
Curve Coefficients

Intercept:	0
Slope:	0.2447

Error Coefficients

Standard Error:	457000
Relative Standard Error:	11.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.099881	20.0	695225.0	0.199763	Y
2	STD8260 240-450378/14	1.0	0.210528	20.0	706605.0	0.210528	Y
3	STD8260 240-450378/13	10.0	2.518657	20.0	754124.0	0.251866	Y
4	ICIS 240-450378/12	20.0	5.015987	20.0	743399.0	0.250799	Y
5	STD8260 240-450378/11	40.0	10.924312	20.0	768658.0	0.273108	Y
6	STD8260 240-450378/10	60.0	15.919076	20.0	763435.0	0.265318	Y
7	STD8260 240-450378/9	80.0	20.913428	20.0	778146.0	0.261418	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

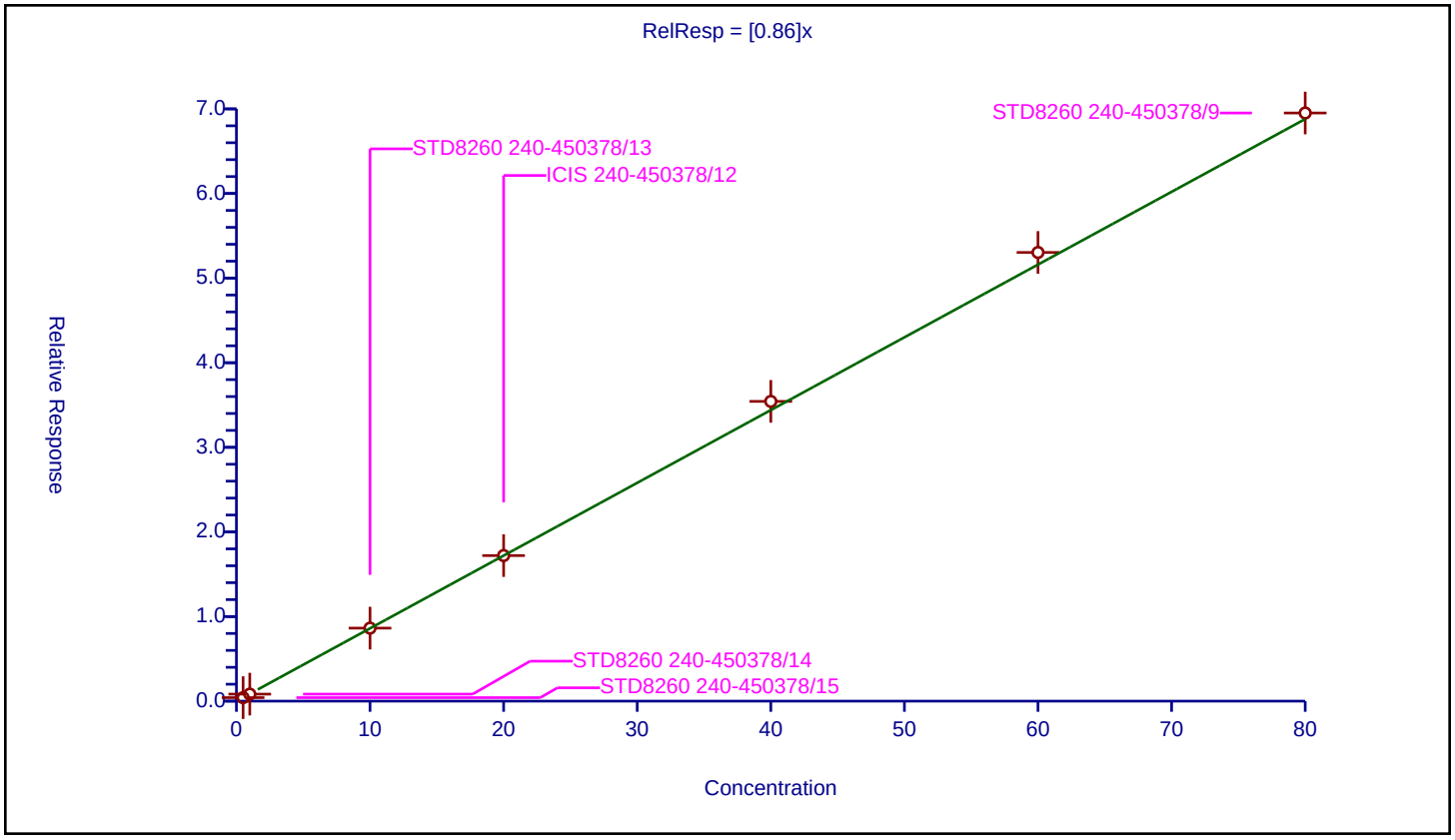
Curve Coefficients

Intercept:	0
Slope:	0.86

Error Coefficients

Standard Error:	1520000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.414226	20.0	695225.0	0.828451	Y
2	STD8260 240-450378/14	1.0	0.829657	20.0	706605.0	0.829657	Y
3	STD8260 240-450378/13	10.0	8.63065	20.0	754124.0	0.863065	Y
4	ICIS 240-450378/12	20.0	17.206668	20.0	743399.0	0.860333	Y
5	STD8260 240-450378/11	40.0	35.42811	20.0	768658.0	0.885703	Y
6	STD8260 240-450378/10	60.0	53.031941	20.0	763435.0	0.883866	Y
7	STD8260 240-450378/9	80.0	69.513922	20.0	778146.0	0.868924	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

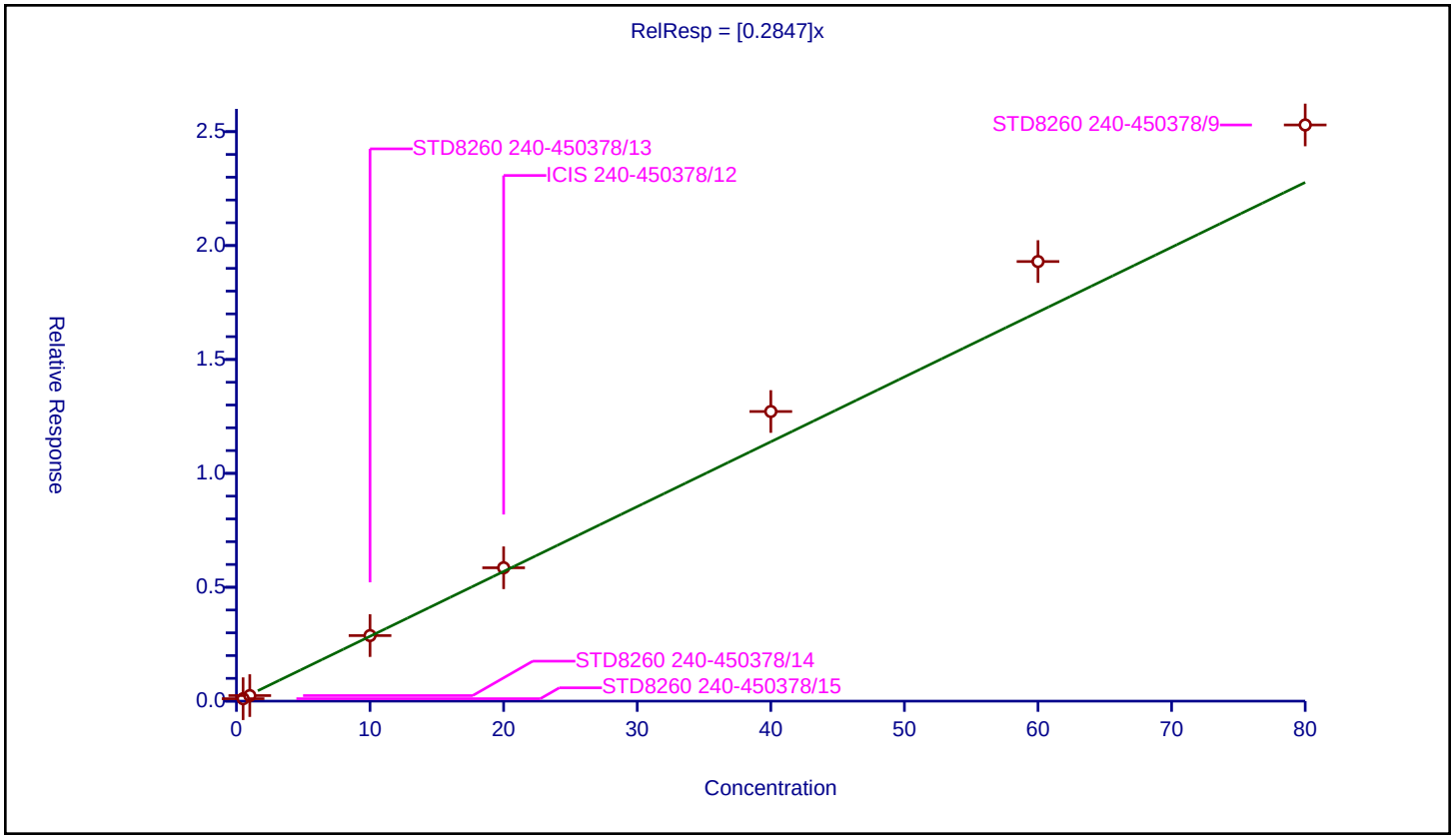
Curve Coefficients

Intercept:	0
Slope:	0.2847

Error Coefficients

Standard Error:	549000
Relative Standard Error:	14.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.106555	20.0	695225.0	0.213111	Y
2	STD8260 240-450378/14	1.0	0.243248	20.0	706605.0	0.243248	Y
3	STD8260 240-450378/13	10.0	2.878306	20.0	754124.0	0.287831	Y
4	ICIS 240-450378/12	20.0	5.854433	20.0	743399.0	0.292722	Y
5	STD8260 240-450378/11	40.0	12.715252	20.0	768658.0	0.317881	Y
6	STD8260 240-450378/10	60.0	19.299377	20.0	763435.0	0.321656	Y
7	STD8260 240-450378/9	80.0	25.295304	20.0	778146.0	0.316191	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

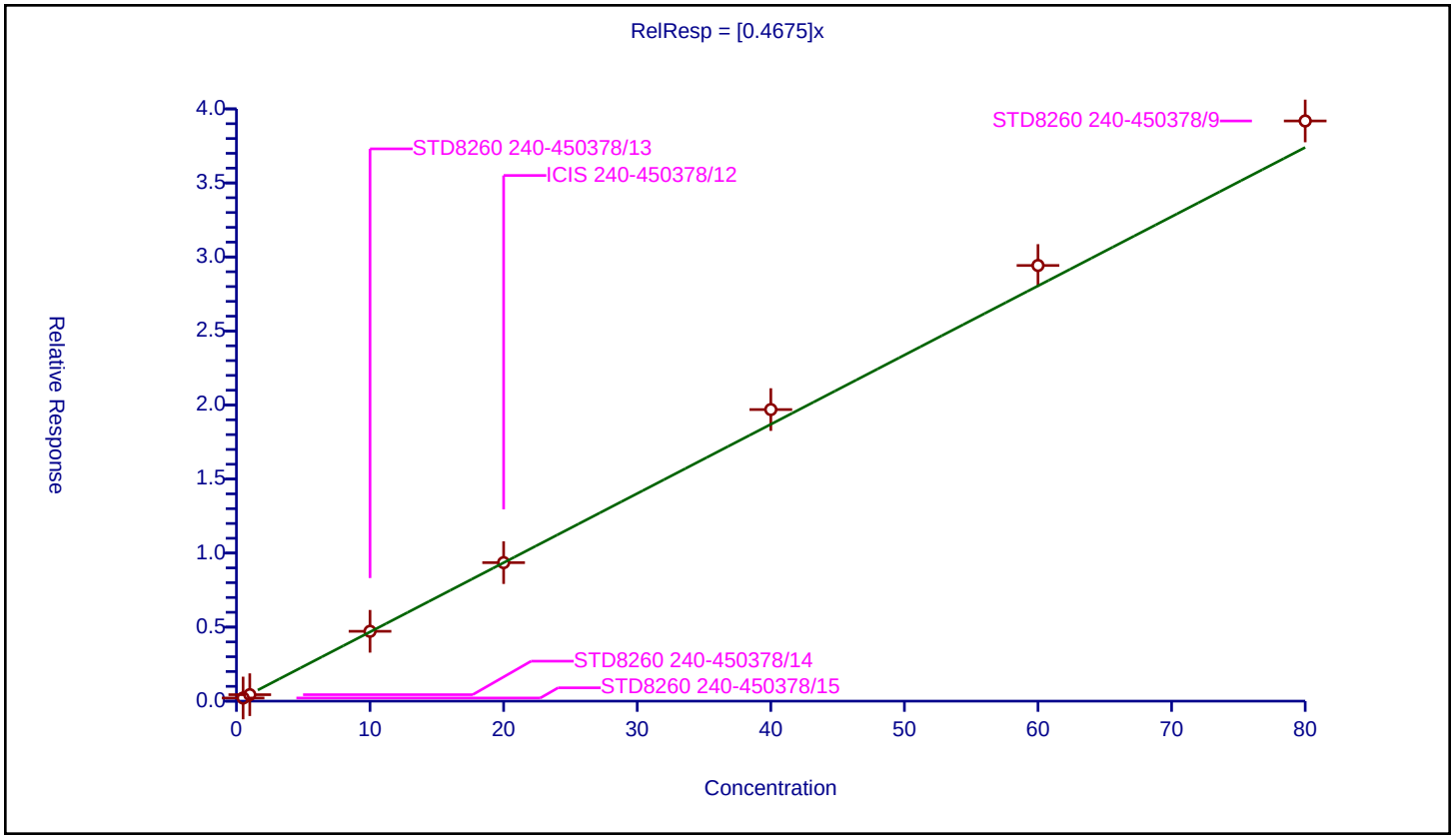
Curve Coefficients

Intercept:	0
Slope:	0.4675

Error Coefficients

Standard Error:	848000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.211701	20.0	695225.0	0.423402	Y
2	STD8260 240-450378/14	1.0	0.436878	20.0	706605.0	0.436878	Y
3	STD8260 240-450378/13	10.0	4.716598	20.0	754124.0	0.47166	Y
4	ICIS 240-450378/12	20.0	9.35468	20.0	743399.0	0.467734	Y
5	STD8260 240-450378/11	40.0	19.693154	20.0	768658.0	0.492329	Y
6	STD8260 240-450378/10	60.0	29.424299	20.0	763435.0	0.490405	Y
7	STD8260 240-450378/9	80.0	39.185371	20.0	778146.0	0.489817	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

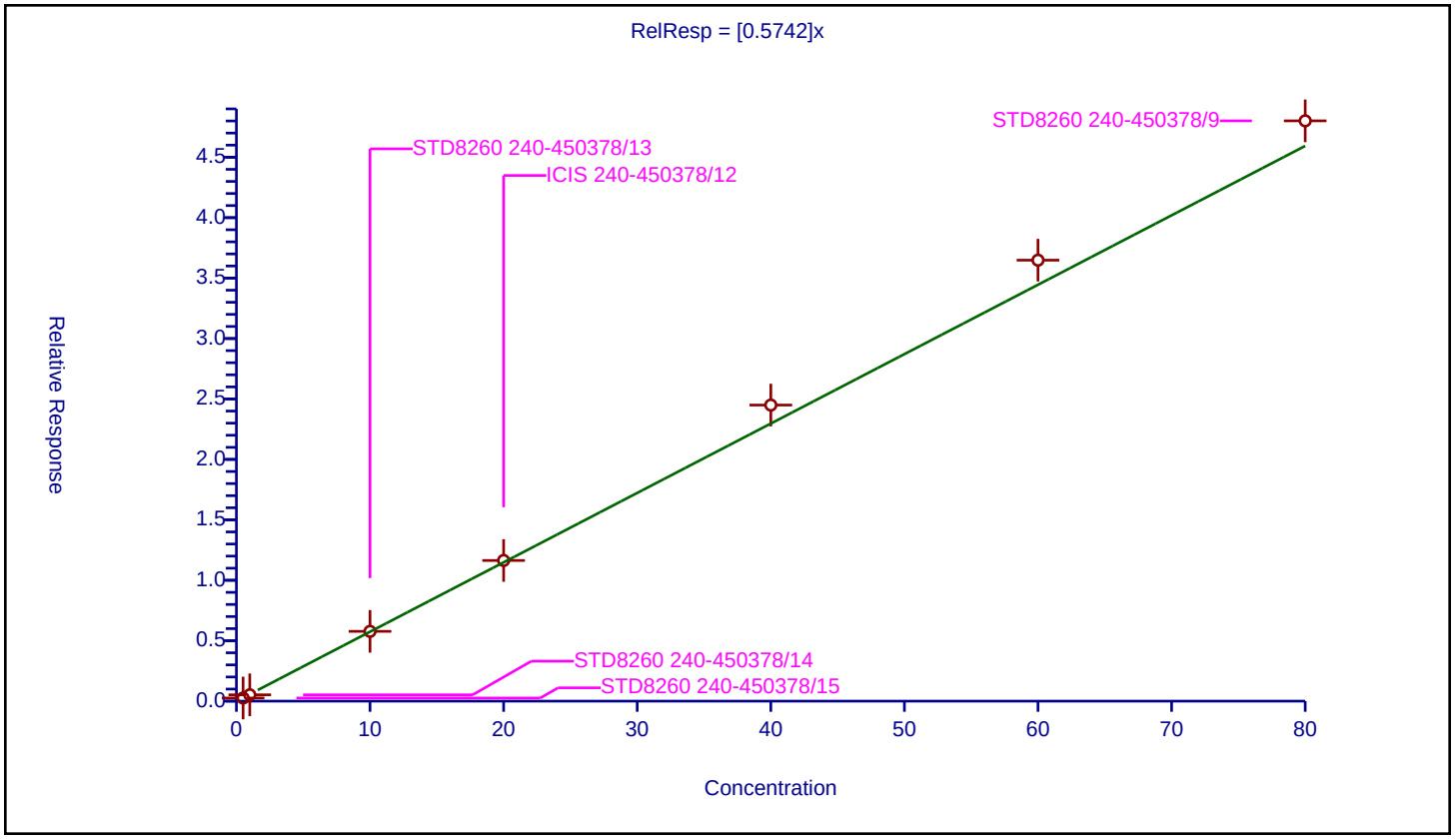
Curve Coefficients

Intercept:	0
Slope:	0.5742

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.257988	20.0	695225.0	0.515977	Y
2	STD8260 240-450378/14	1.0	0.523234	20.0	706605.0	0.523234	Y
3	STD8260 240-450378/13	10.0	5.775363	20.0	754124.0	0.577536	Y
4	ICIS 240-450378/12	20.0	11.638219	20.0	743399.0	0.581911	Y
5	STD8260 240-450378/11	40.0	24.496928	20.0	768658.0	0.612423	Y
6	STD8260 240-450378/10	60.0	36.484599	20.0	763435.0	0.608077	Y
7	STD8260 240-450378/9	80.0	48.011556	20.0	778146.0	0.600144	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

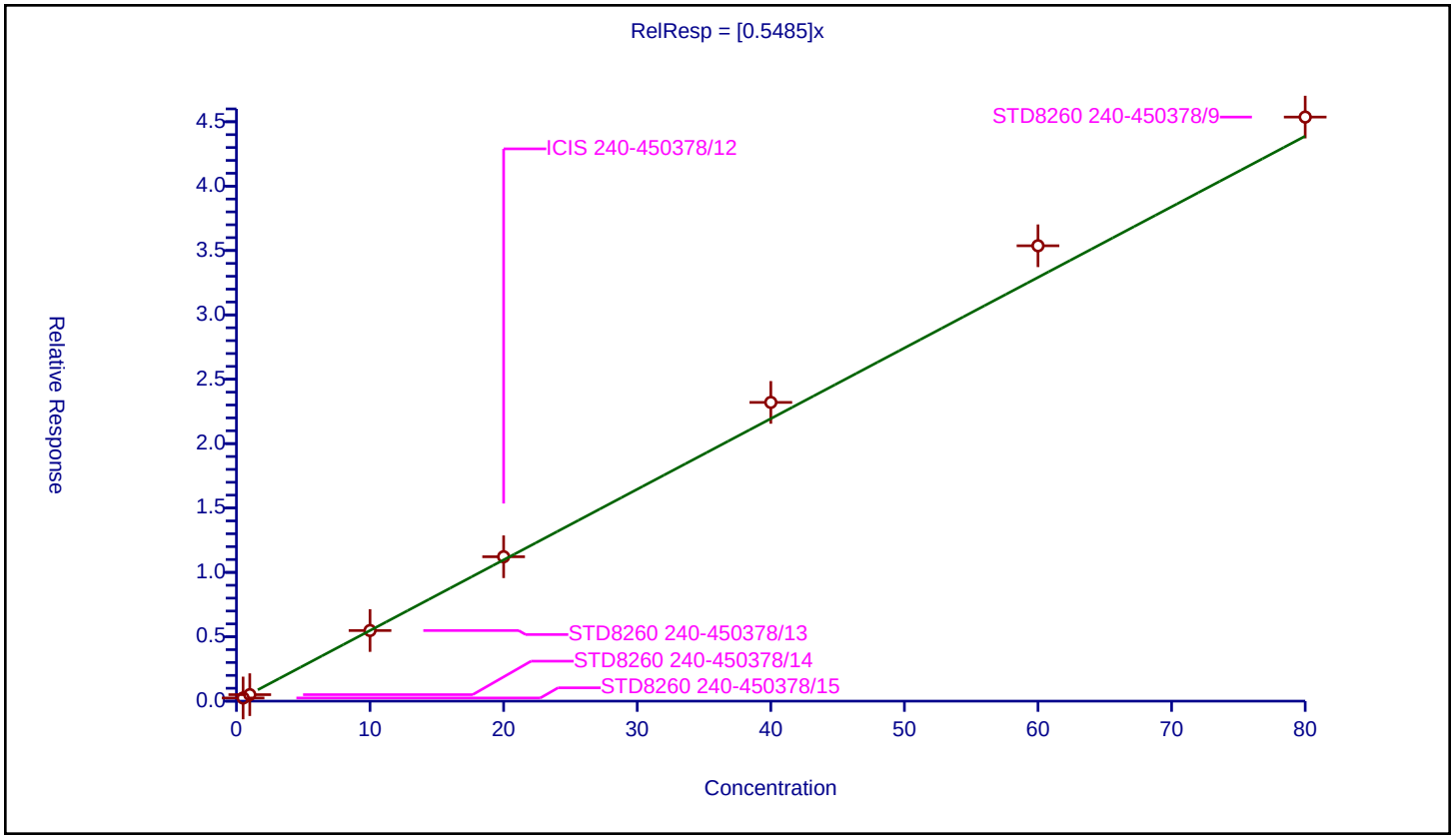
Curve Coefficients

Intercept:	0
Slope:	0.5485

Error Coefficients

Standard Error:	996000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.244669	20.0	695225.0	0.489338	Y
2	STD8260 240-450378/14	1.0	0.50461	20.0	706605.0	0.50461	Y
3	STD8260 240-450378/13	10.0	5.484111	20.0	754124.0	0.548411	Y
4	ICIS 240-450378/12	20.0	11.215996	20.0	743399.0	0.5608	Y
5	STD8260 240-450378/11	40.0	23.204104	20.0	768658.0	0.580103	Y
6	STD8260 240-450378/10	60.0	35.369377	20.0	763435.0	0.58949	Y
7	STD8260 240-450378/9	80.0	45.365394	20.0	778146.0	0.567067	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

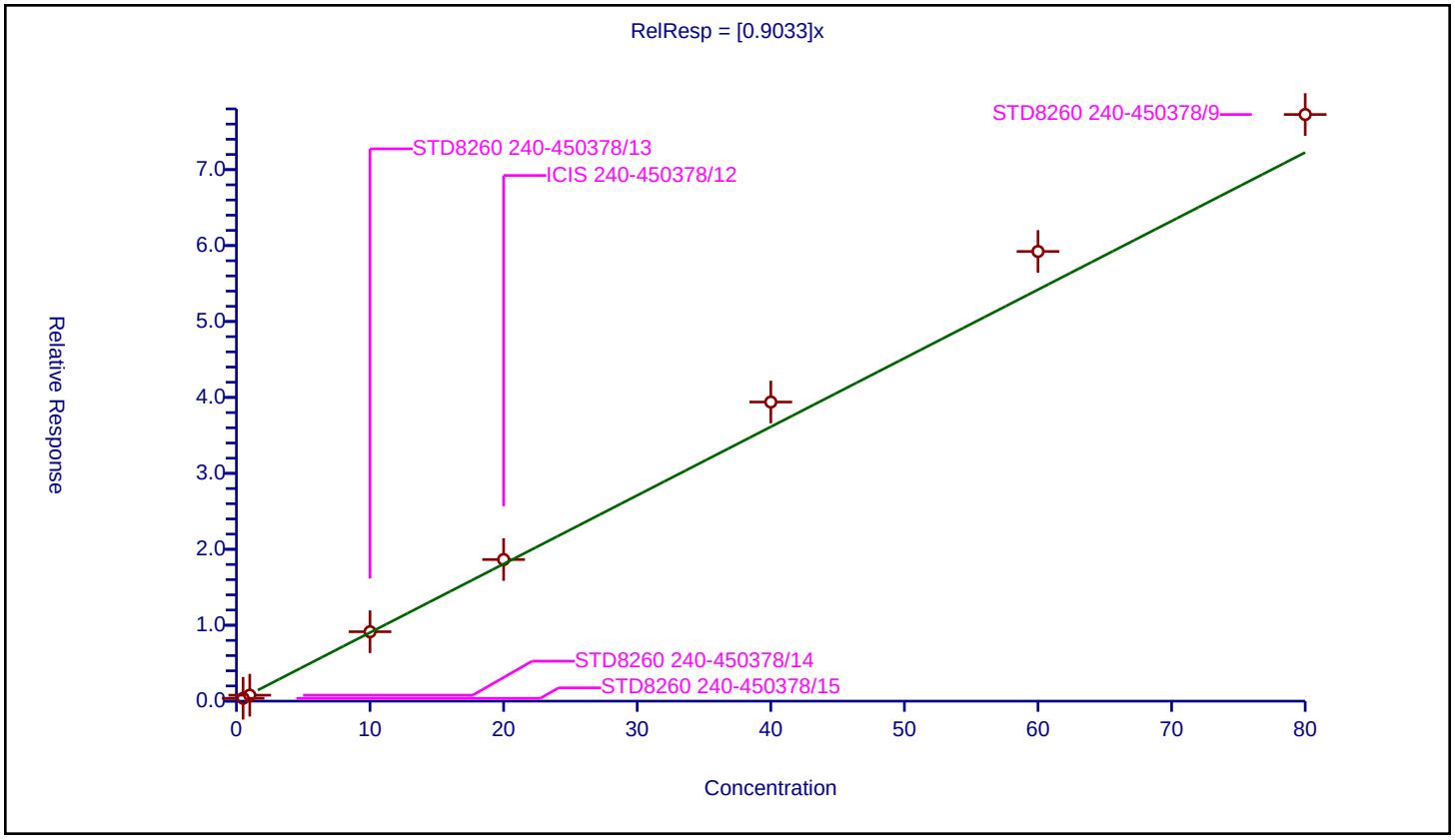
Curve Coefficients

Intercept:	0
Slope:	0.9033

Error Coefficients

Standard Error:	1690000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.377576	20.0	695225.0	0.755151	Y
2	STD8260 240-450378/14	1.0	0.783408	20.0	706605.0	0.783408	Y
3	STD8260 240-450378/13	10.0	9.142873	20.0	754124.0	0.914287	Y
4	ICIS 240-450378/12	20.0	18.649796	20.0	743399.0	0.93249	Y
5	STD8260 240-450378/11	40.0	39.392916	20.0	768658.0	0.984823	Y
6	STD8260 240-450378/10	60.0	59.223981	20.0	763435.0	0.987066	Y
7	STD8260 240-450378/9	80.0	77.260668	20.0	778146.0	0.965758	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

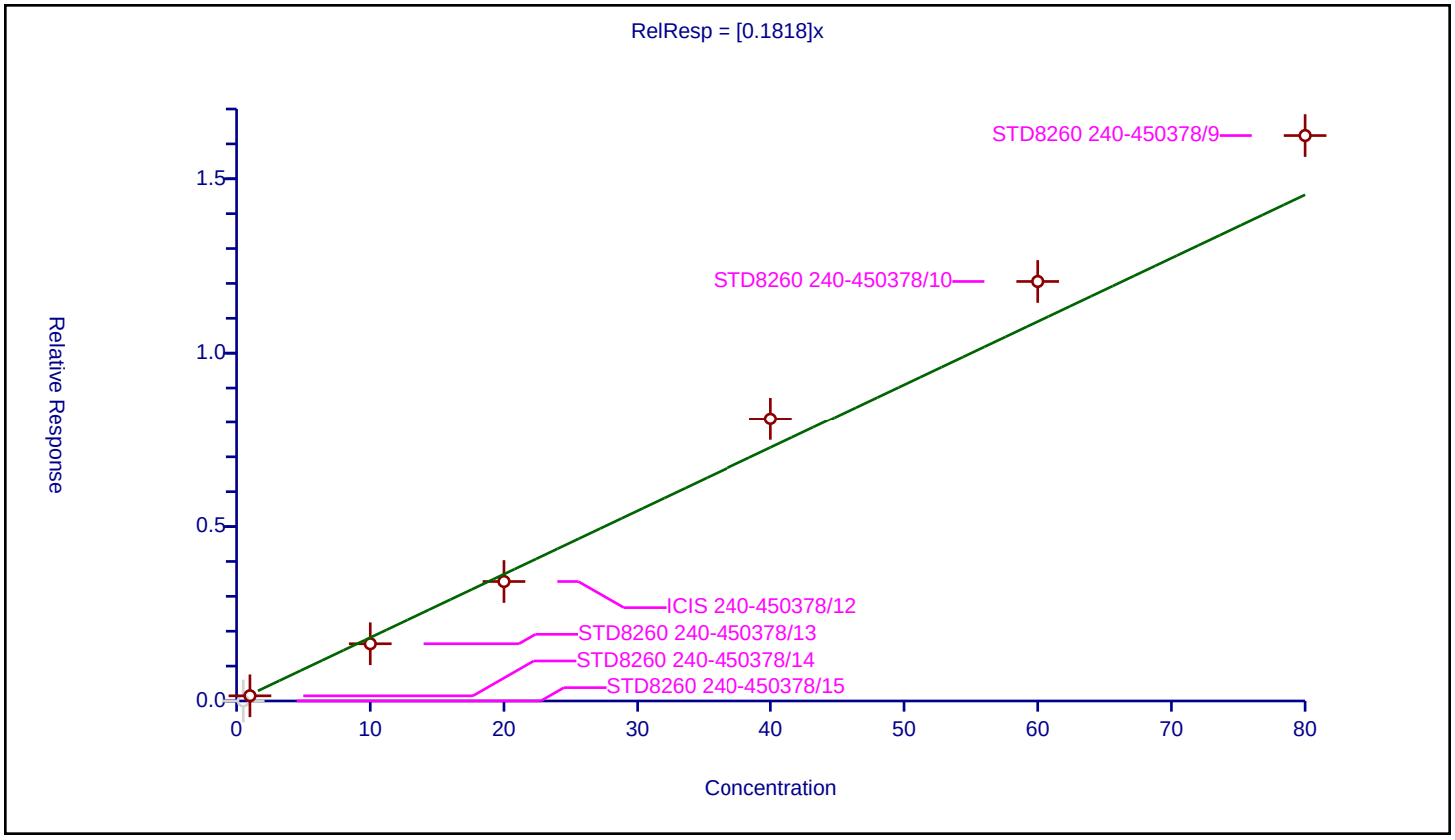
Curve Coefficients

Intercept:	0
Slope:	0.1818

Error Coefficients

Standard Error:	382000
Relative Standard Error:	12.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	695225.0	0.0	N
2	STD8260 240-450378/14	1.0	0.148768	20.0	706605.0	0.148768	Y
3	STD8260 240-450378/13	10.0	1.640712	20.0	754124.0	0.164071	Y
4	ICIS 240-450378/12	20.0	3.425321	20.0	743399.0	0.171266	Y
5	STD8260 240-450378/11	40.0	8.102823	20.0	768658.0	0.202571	Y
6	STD8260 240-450378/10	60.0	12.056167	20.0	763435.0	0.200936	Y
7	STD8260 240-450378/9	80.0	16.239292	20.0	778146.0	0.202991	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

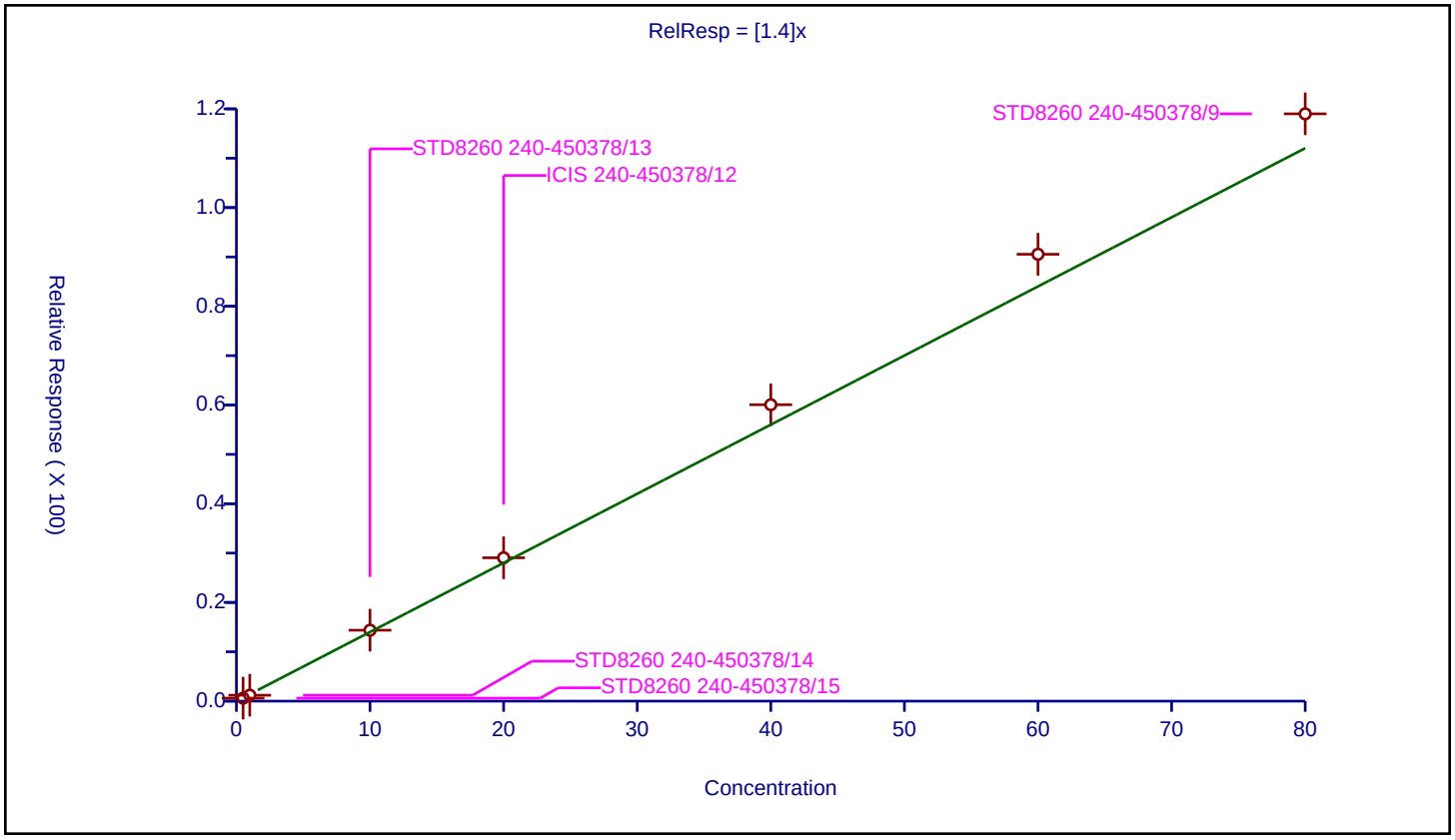
Curve Coefficients

Intercept:	0
Slope:	1.4

Error Coefficients

Standard Error:	2590000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.60671	20.0	695225.0	1.21342	Y
2	STD8260 240-450378/14	1.0	1.20186	20.0	706605.0	1.20186	Y
3	STD8260 240-450378/13	10.0	14.374533	20.0	754124.0	1.437453	Y
4	ICIS 240-450378/12	20.0	29.044995	20.0	743399.0	1.45225	Y
5	STD8260 240-450378/11	40.0	60.063149	20.0	768658.0	1.501579	Y
6	STD8260 240-450378/10	60.0	90.543556	20.0	763435.0	1.509059	Y
7	STD8260 240-450378/9	80.0	118.997669	20.0	778146.0	1.487471	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

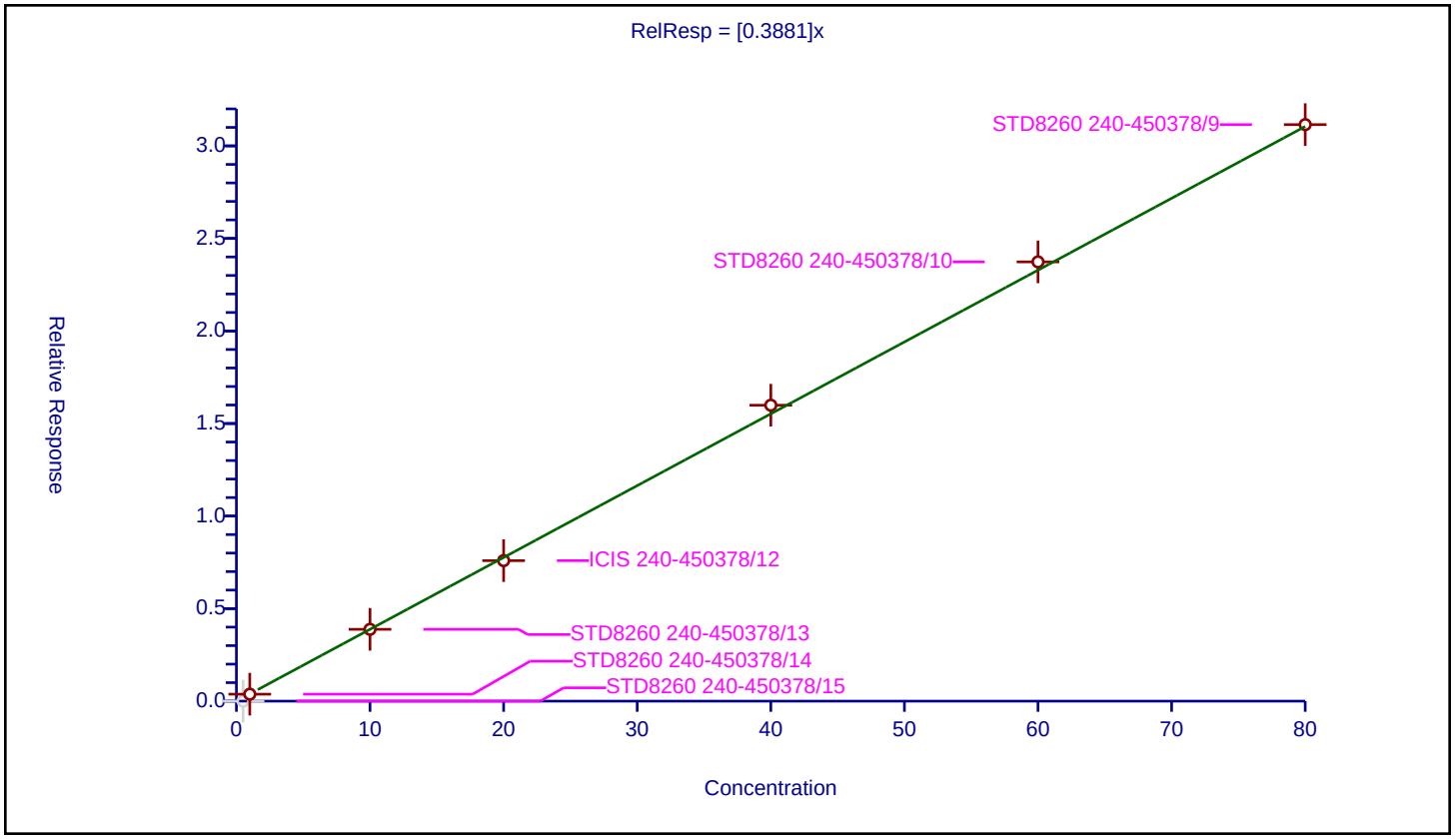
Curve Coefficients

Intercept:	0
Slope:	0.3881

Error Coefficients

Standard Error:	744000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	695225.0	0.0	N
2	STD8260 240-450378/14	1.0	0.376533	20.0	706605.0	0.376533	Y
3	STD8260 240-450378/13	10.0	3.880449	20.0	754124.0	0.388045	Y
4	ICIS 240-450378/12	20.0	7.591347	20.0	743399.0	0.379567	Y
5	STD8260 240-450378/11	40.0	15.988541	20.0	768658.0	0.399714	Y
6	STD8260 240-450378/10	60.0	23.734306	20.0	763435.0	0.395572	Y
7	STD8260 240-450378/9	80.0	31.150041	20.0	778146.0	0.389376	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

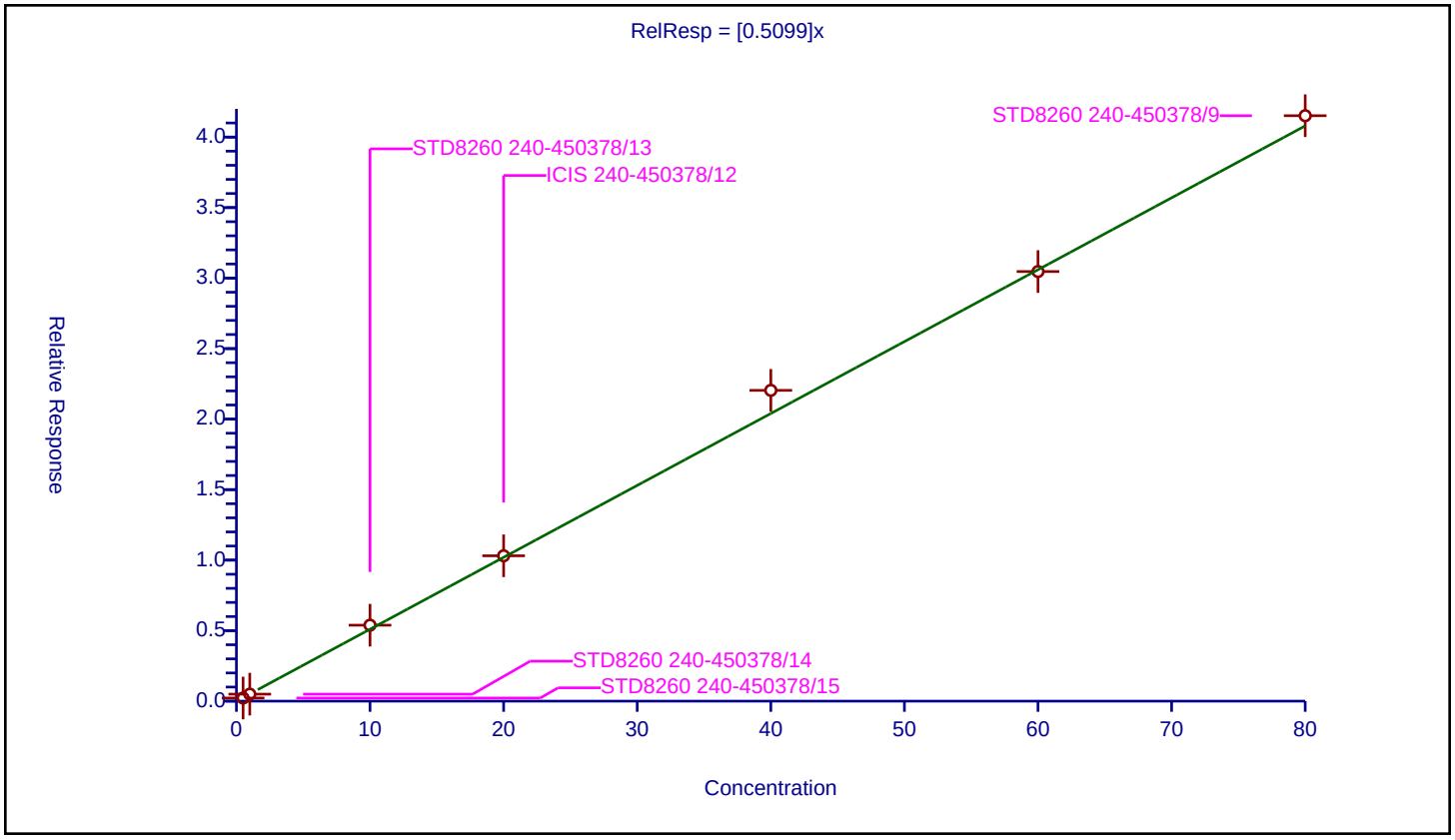
Curve Coefficients

Intercept:	0
Slope:	0.5099

Error Coefficients

Standard Error:	521000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.2213	20.0	385450.0	0.4426	Y
2	STD8260 240-450378/14	1.0	0.495281	20.0	380148.0	0.495281	Y
3	STD8260 240-450378/13	10.0	5.386113	20.0	410385.0	0.538611	Y
4	ICIS 240-450378/12	20.0	10.307408	20.0	412806.0	0.51537	Y
5	STD8260 240-450378/11	40.0	22.039095	20.0	434281.0	0.550977	Y
6	STD8260 240-450378/10	60.0	30.465155	20.0	445572.0	0.507753	Y
7	STD8260 240-450378/9	80.0	41.515628	20.0	451694.0	0.518945	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

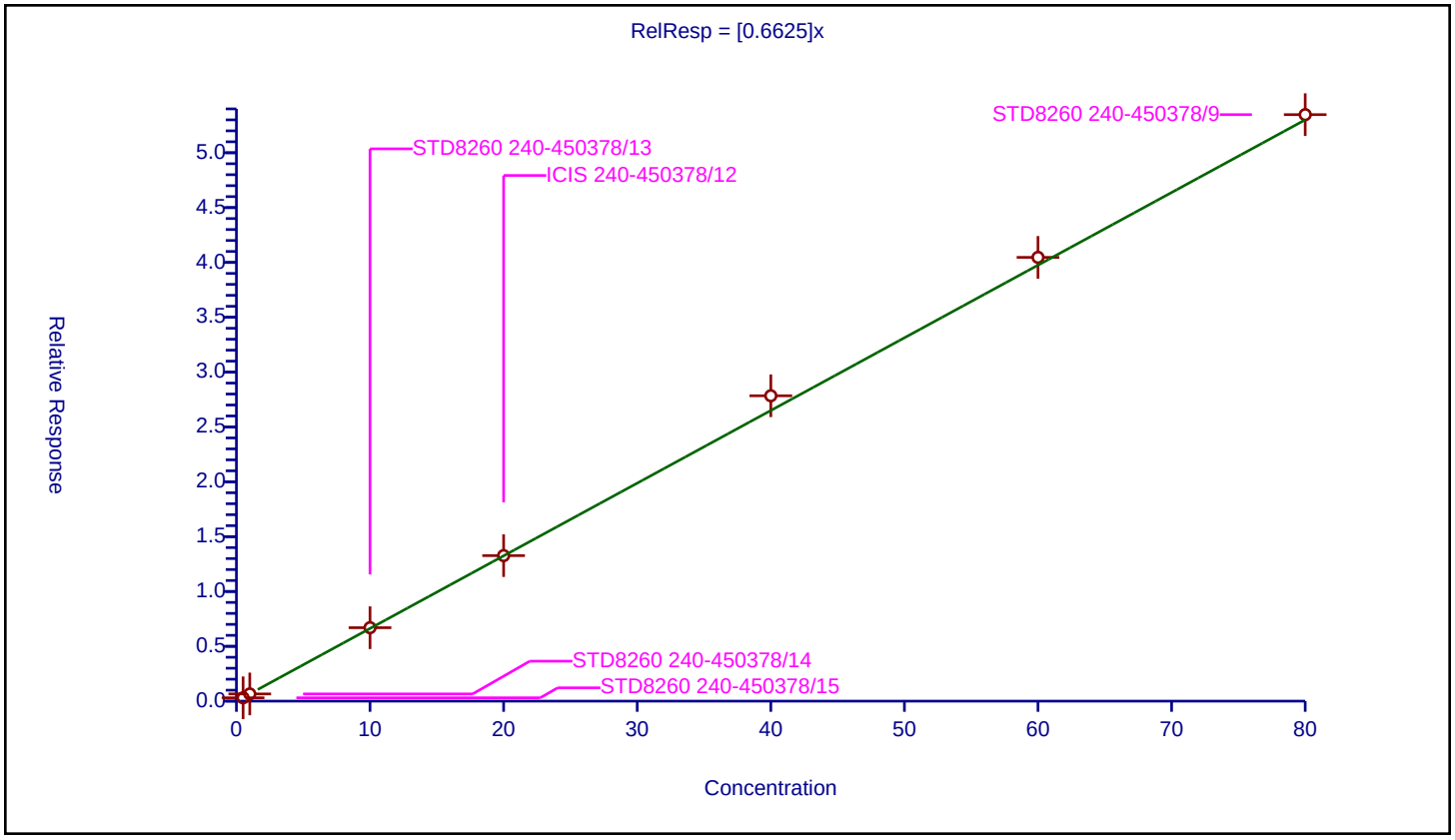
Curve Coefficients

Intercept:	0
Slope:	0.6625

Error Coefficients

Standard Error:	675000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.304787	20.0	385450.0	0.609573	Y
2	STD8260 240-450378/14	1.0	0.656165	20.0	380148.0	0.656165	Y
3	STD8260 240-450378/13	10.0	6.696882	20.0	410385.0	0.669688	Y
4	ICIS 240-450378/12	20.0	13.268945	20.0	412806.0	0.663447	Y
5	STD8260 240-450378/11	40.0	27.843401	20.0	434281.0	0.696085	Y
6	STD8260 240-450378/10	60.0	40.460936	20.0	445572.0	0.674349	Y
7	STD8260 240-450378/9	80.0	53.474565	20.0	451694.0	0.668432	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

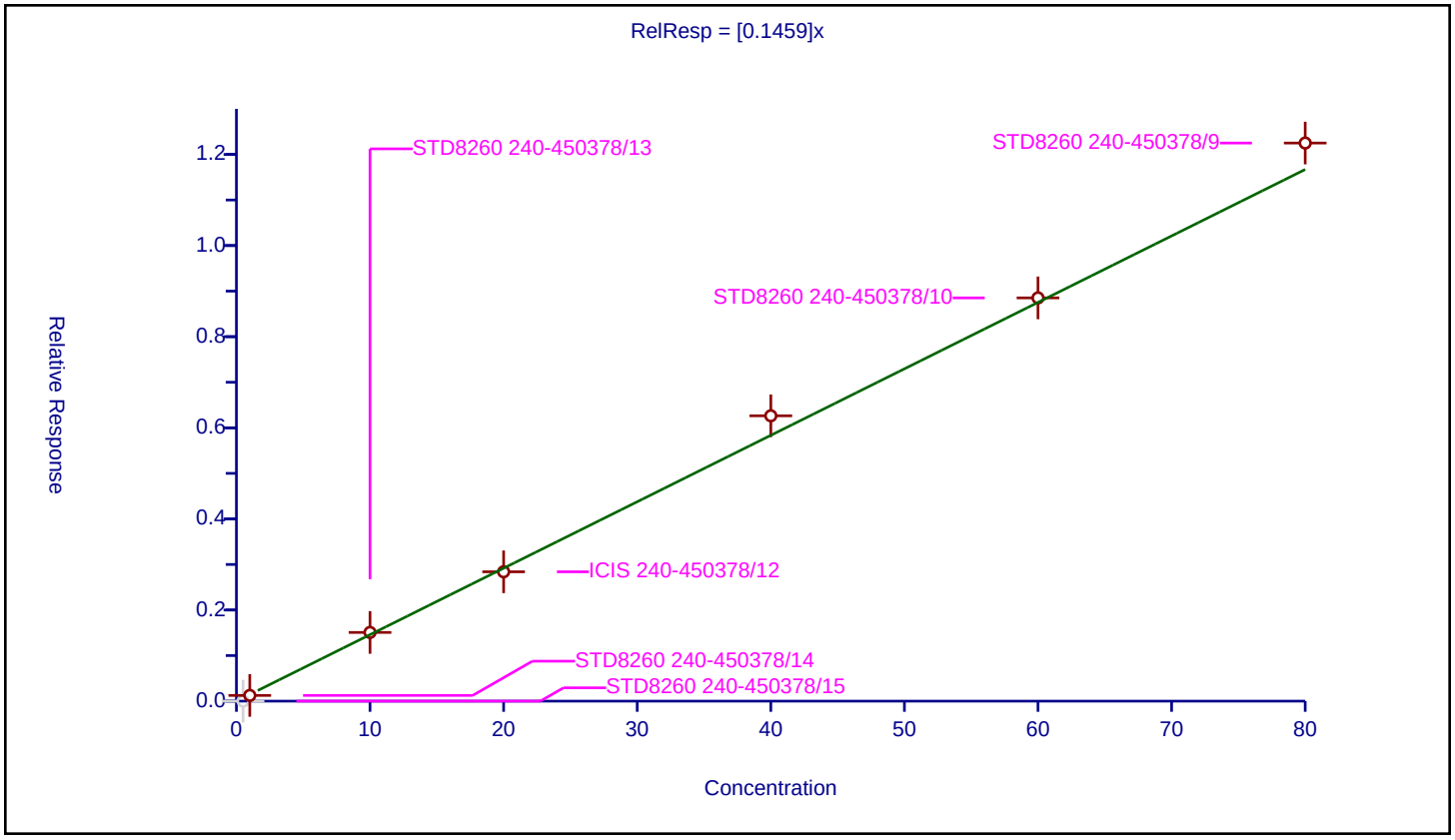
Curve Coefficients

Intercept:	0
Slope:	0.1459

Error Coefficients

Standard Error:	166000
Relative Standard Error:	7.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	385450.0	0.0	N
2	STD8260 240-450378/14	1.0	0.125267	20.0	380148.0	0.125267	Y
3	STD8260 240-450378/13	10.0	1.508194	20.0	410385.0	0.150819	Y
4	ICIS 240-450378/12	20.0	2.839106	20.0	412806.0	0.141955	Y
5	STD8260 240-450378/11	40.0	6.263364	20.0	434281.0	0.156584	Y
6	STD8260 240-450378/10	60.0	8.851319	20.0	445572.0	0.147522	Y
7	STD8260 240-450378/9	80.0	12.250329	20.0	451694.0	0.153129	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

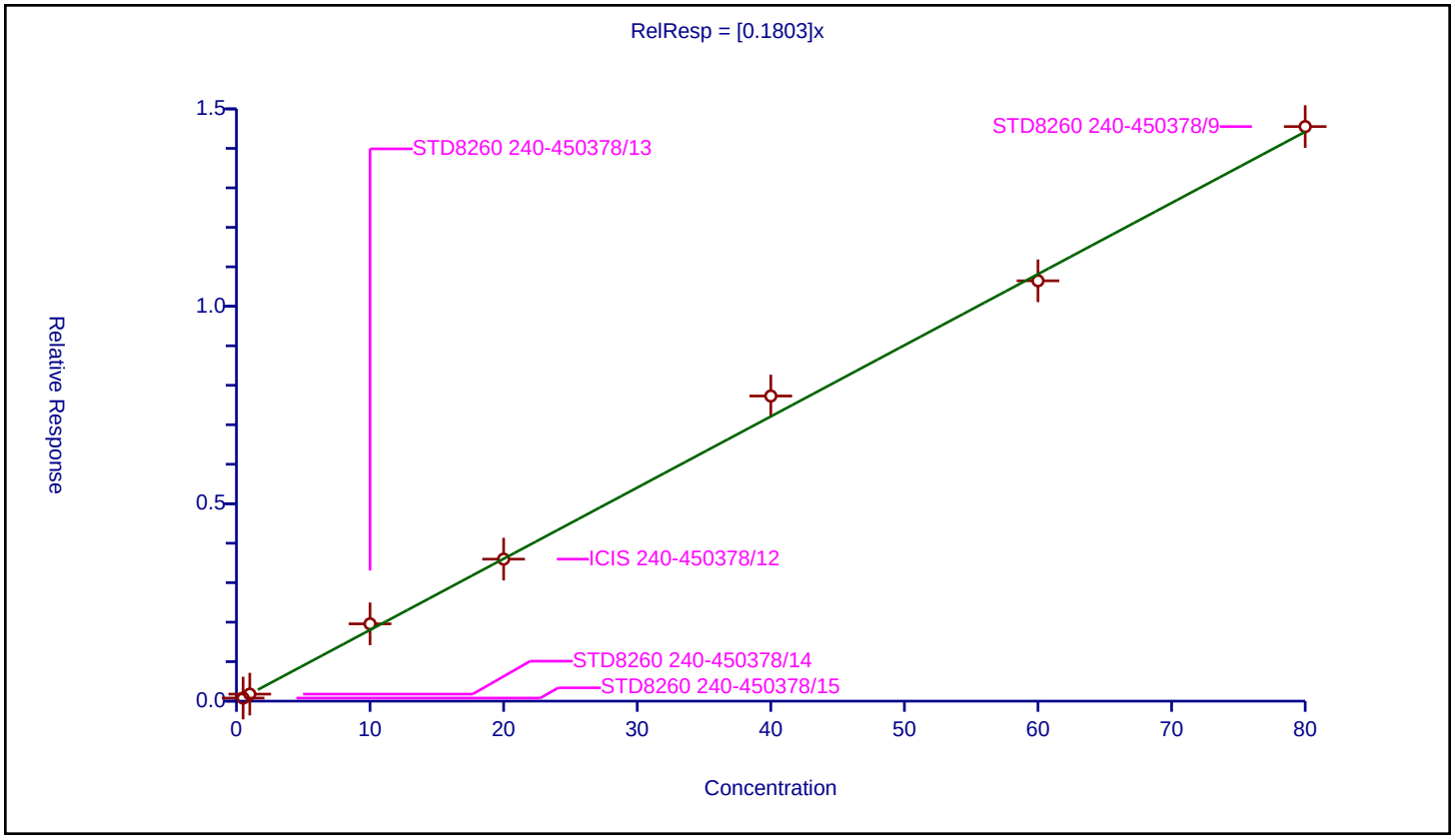
Curve Coefficients

Intercept:	0
Slope:	0.1803

Error Coefficients

Standard Error:	182000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.078039	20.0	385450.0	0.156077	Y
2	STD8260 240-450378/14	1.0	0.177562	20.0	380148.0	0.177562	Y
3	STD8260 240-450378/13	10.0	1.957869	20.0	410385.0	0.195787	Y
4	ICIS 240-450378/12	20.0	3.59675	20.0	412806.0	0.179838	Y
5	STD8260 240-450378/11	40.0	7.728176	20.0	434281.0	0.193204	Y
6	STD8260 240-450378/10	60.0	10.646315	20.0	445572.0	0.177439	Y
7	STD8260 240-450378/9	80.0	14.551754	20.0	451694.0	0.181897	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

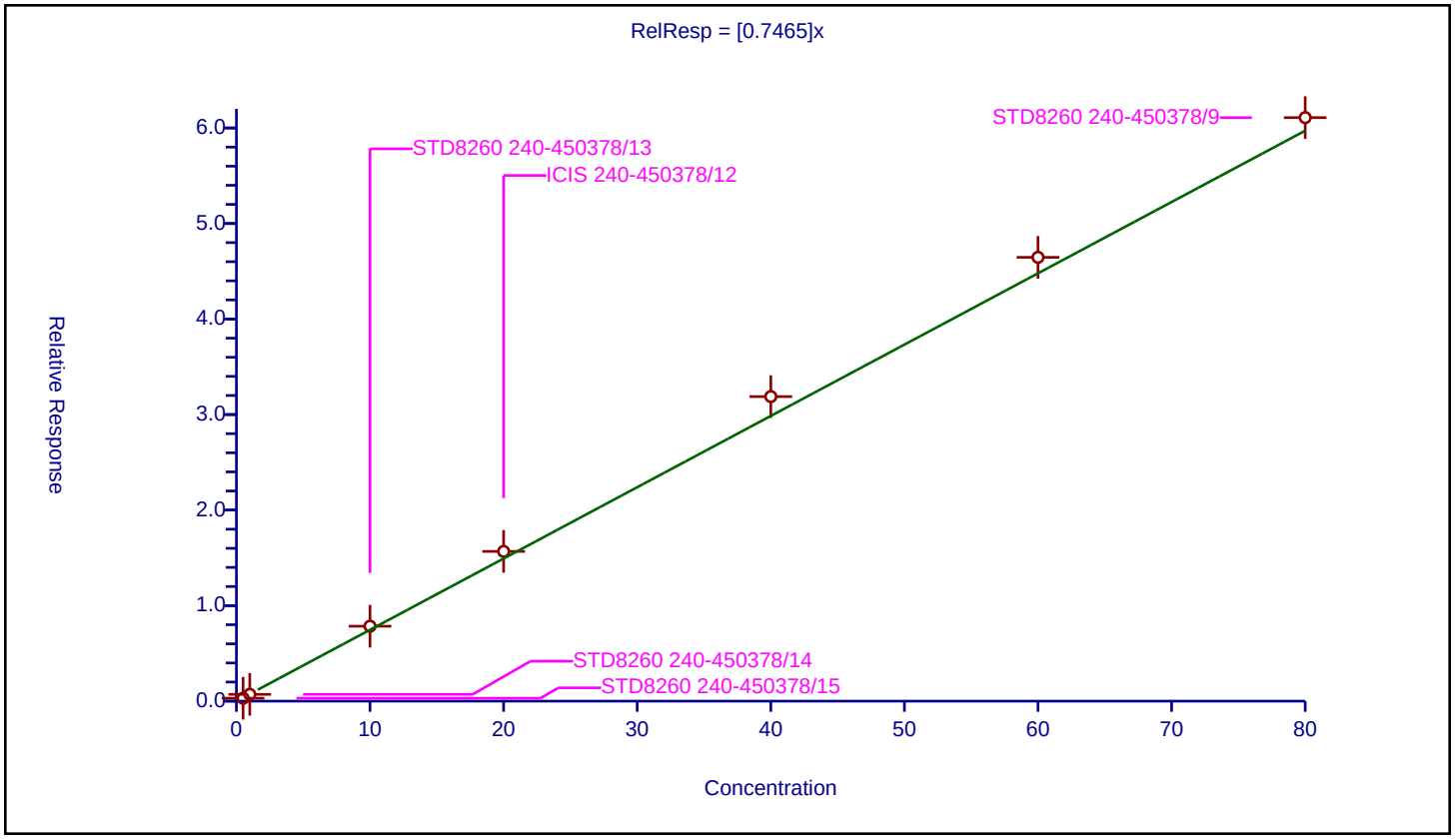
Curve Coefficients

Intercept:	0
Slope:	0.7465

Error Coefficients

Standard Error:	773000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.306603	20.0	385450.0	0.613205	Y
2	STD8260 240-450378/14	1.0	0.708829	20.0	380148.0	0.708829	Y
3	STD8260 240-450378/13	10.0	7.845803	20.0	410385.0	0.78458	Y
4	ICIS 240-450378/12	20.0	15.674191	20.0	412806.0	0.78371	Y
5	STD8260 240-450378/11	40.0	31.880603	20.0	434281.0	0.797015	Y
6	STD8260 240-450378/10	60.0	46.457587	20.0	445572.0	0.774293	Y
7	STD8260 240-450378/9	80.0	61.086798	20.0	451694.0	0.763585	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

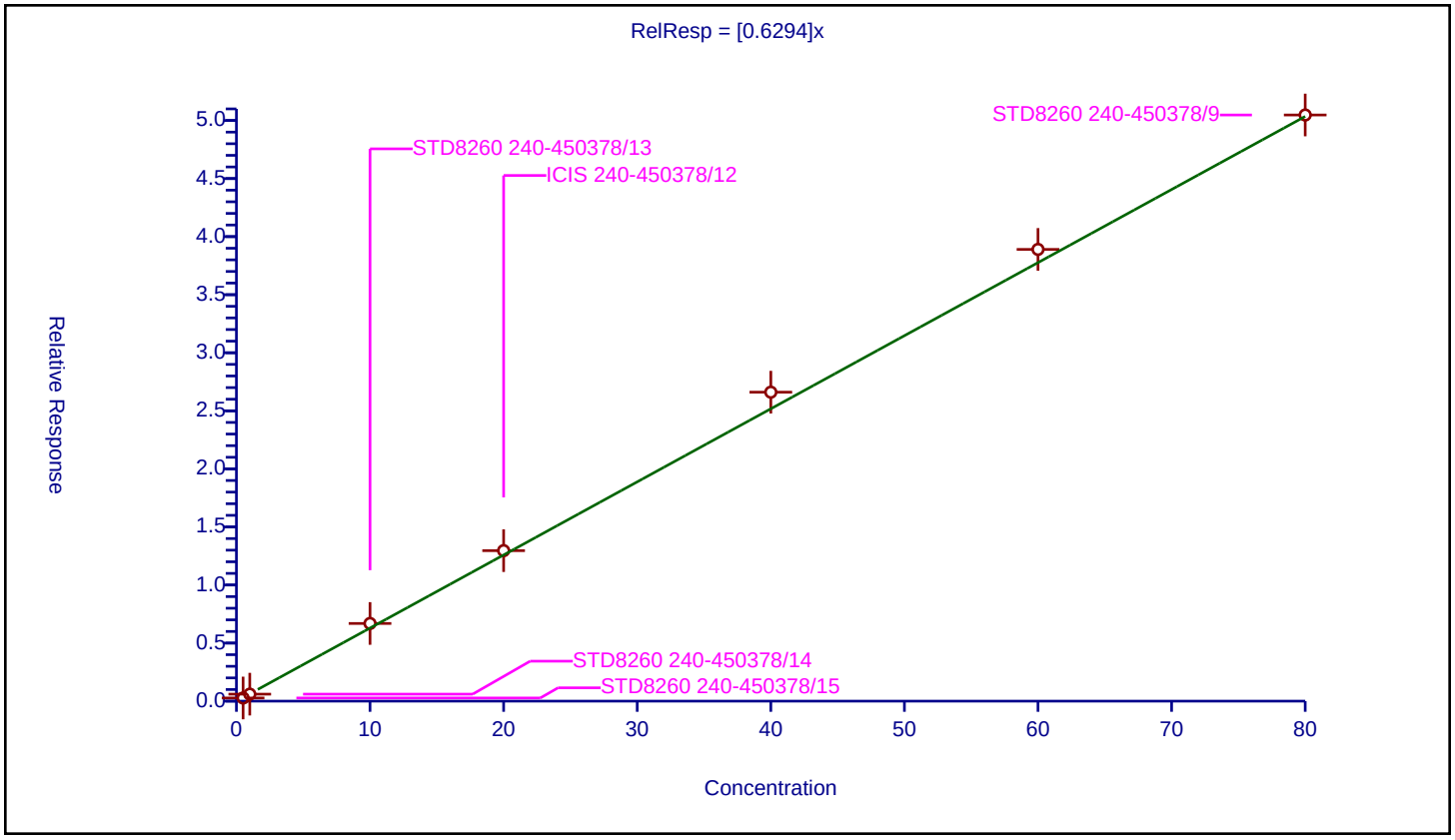
Curve Coefficients

Intercept:	0
Slope:	0.6294

Error Coefficients

Standard Error:	642000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.271475	20.0	385450.0	0.54295	Y
2	STD8260 240-450378/14	1.0	0.60145	20.0	380148.0	0.60145	Y
3	STD8260 240-450378/13	10.0	6.688938	20.0	410385.0	0.668894	Y
4	ICIS 240-450378/12	20.0	12.960325	20.0	412806.0	0.648016	Y
5	STD8260 240-450378/11	40.0	26.606045	20.0	434281.0	0.665151	Y
6	STD8260 240-450378/10	60.0	38.900066	20.0	445572.0	0.648334	Y
7	STD8260 240-450378/9	80.0	50.473728	20.0	451694.0	0.630922	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

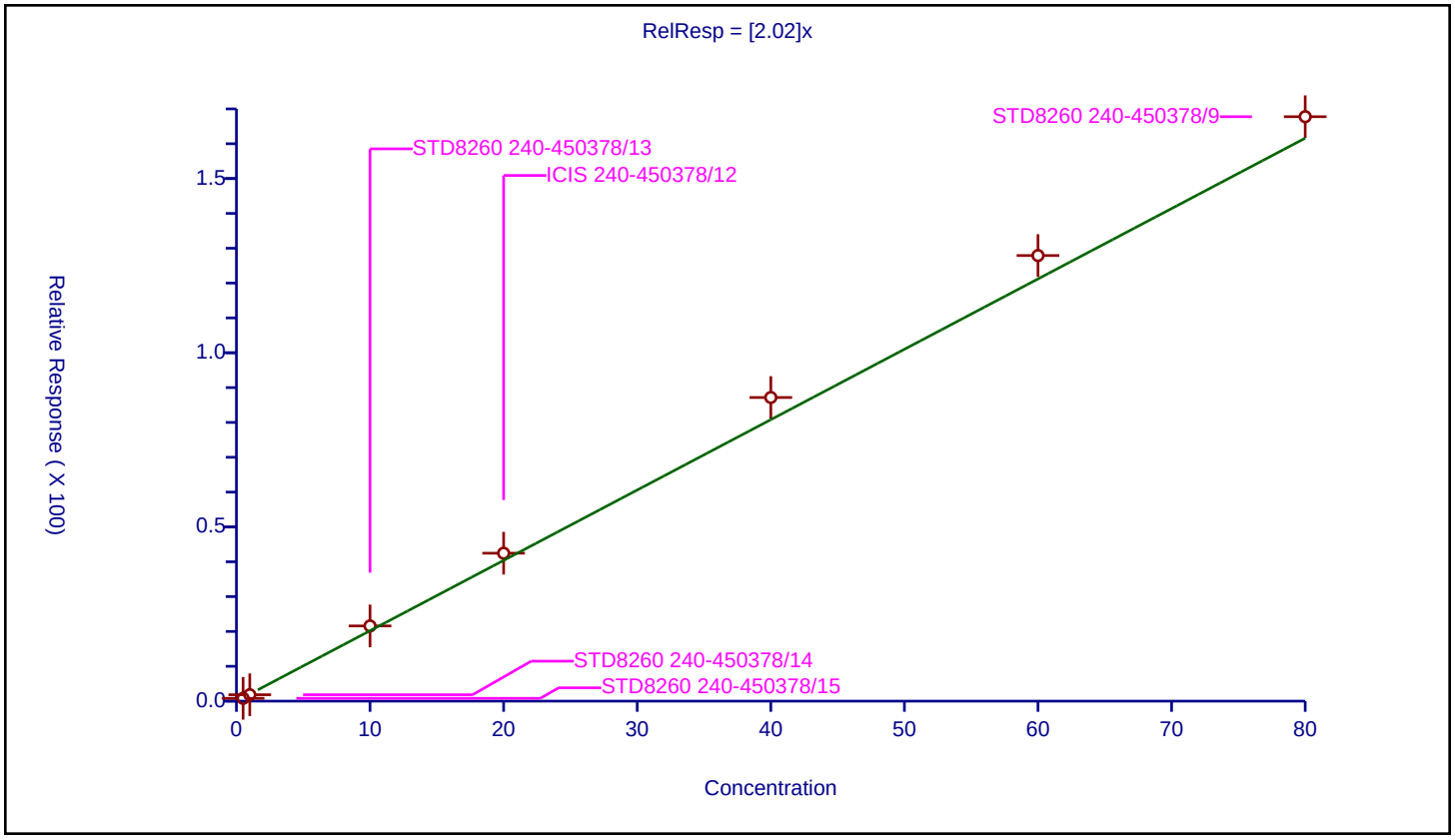
Curve Coefficients

Intercept:	0
Slope:	2.02

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.806486	20.0	385450.0	1.612972	Y
2	STD8260 240-450378/14	1.0	1.837127	20.0	380148.0	1.837127	Y
3	STD8260 240-450378/13	10.0	21.585146	20.0	410385.0	2.158515	Y
4	ICIS 240-450378/12	20.0	42.467551	20.0	412806.0	2.123378	Y
5	STD8260 240-450378/11	40.0	87.155966	20.0	434281.0	2.178899	Y
6	STD8260 240-450378/10	60.0	127.907903	20.0	445572.0	2.131798	Y
7	STD8260 240-450378/9	80.0	167.762556	20.0	451694.0	2.097032	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

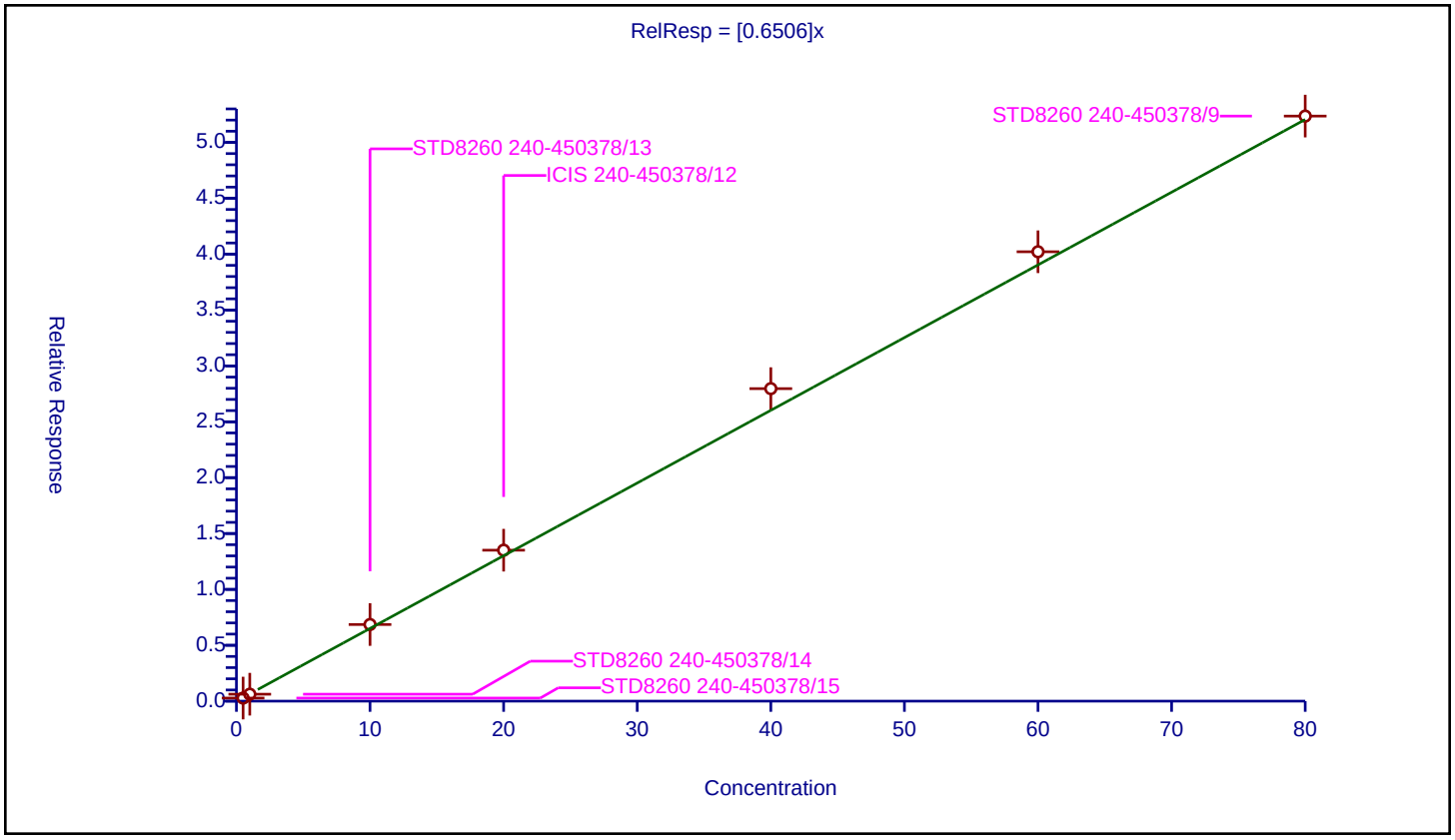
Curve Coefficients

Intercept:	0
Slope:	0.6506

Error Coefficients

Standard Error:	667000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.274484	20.0	385450.0	0.548969	Y
2	STD8260 240-450378/14	1.0	0.62039	20.0	380148.0	0.62039	Y
3	STD8260 240-450378/13	10.0	6.858243	20.0	410385.0	0.685824	Y
4	ICIS 240-450378/12	20.0	13.507653	20.0	412806.0	0.675383	Y
5	STD8260 240-450378/11	40.0	27.966777	20.0	434281.0	0.699169	Y
6	STD8260 240-450378/10	60.0	40.214017	20.0	445572.0	0.670234	Y
7	STD8260 240-450378/9	80.0	52.356905	20.0	451694.0	0.654461	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

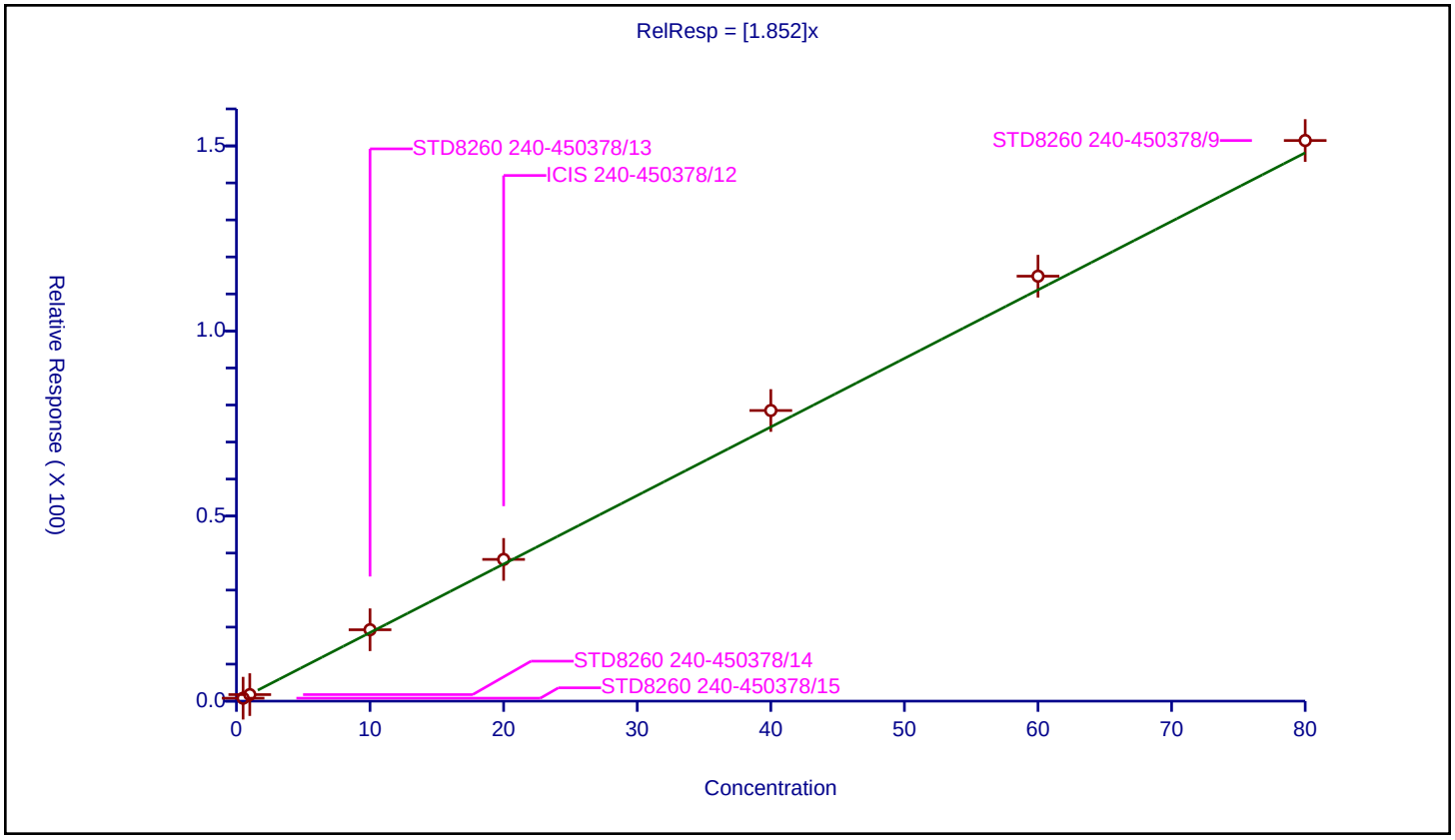
Curve Coefficients

Intercept:	0
Slope:	1.852

Error Coefficients

Standard Error:	1910000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.792943	20.0	385450.0	1.585887	Y
2	STD8260 240-450378/14	1.0	1.763997	20.0	380148.0	1.763997	Y
3	STD8260 240-450378/13	10.0	19.284623	20.0	410385.0	1.928462	Y
4	ICIS 240-450378/12	20.0	38.2883	20.0	412806.0	1.914415	Y
5	STD8260 240-450378/11	40.0	78.517458	20.0	434281.0	1.962936	Y
6	STD8260 240-450378/10	60.0	114.802995	20.0	445572.0	1.913383	Y
7	STD8260 240-450378/9	80.0	151.456074	20.0	451694.0	1.893201	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

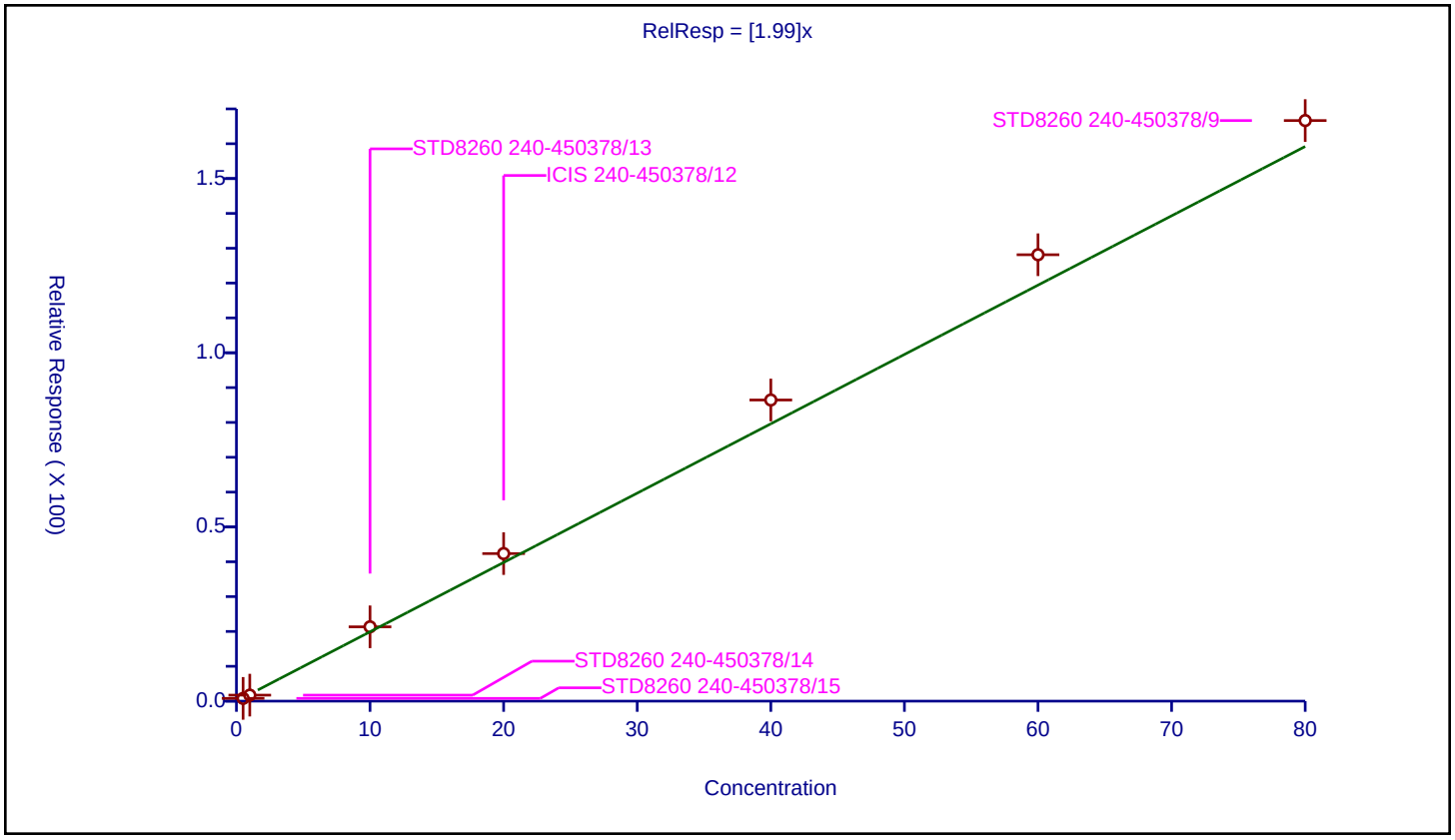
Curve Coefficients

Intercept:	0
Slope:	1.99

Error Coefficients

Standard Error:	2110000
Relative Standard Error:	11.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.787495	20.0	385450.0	1.57499	Y
2	STD8260 240-450378/14	1.0	1.724644	20.0	380148.0	1.724644	Y
3	STD8260 240-450378/13	10.0	21.337037	20.0	410385.0	2.133704	Y
4	ICIS 240-450378/12	20.0	42.360479	20.0	412806.0	2.118024	Y
5	STD8260 240-450378/11	40.0	86.435741	20.0	434281.0	2.160894	Y
6	STD8260 240-450378/10	60.0	128.133411	20.0	445572.0	2.135557	Y
7	STD8260 240-450378/9	80.0	166.65176	20.0	451694.0	2.083147	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

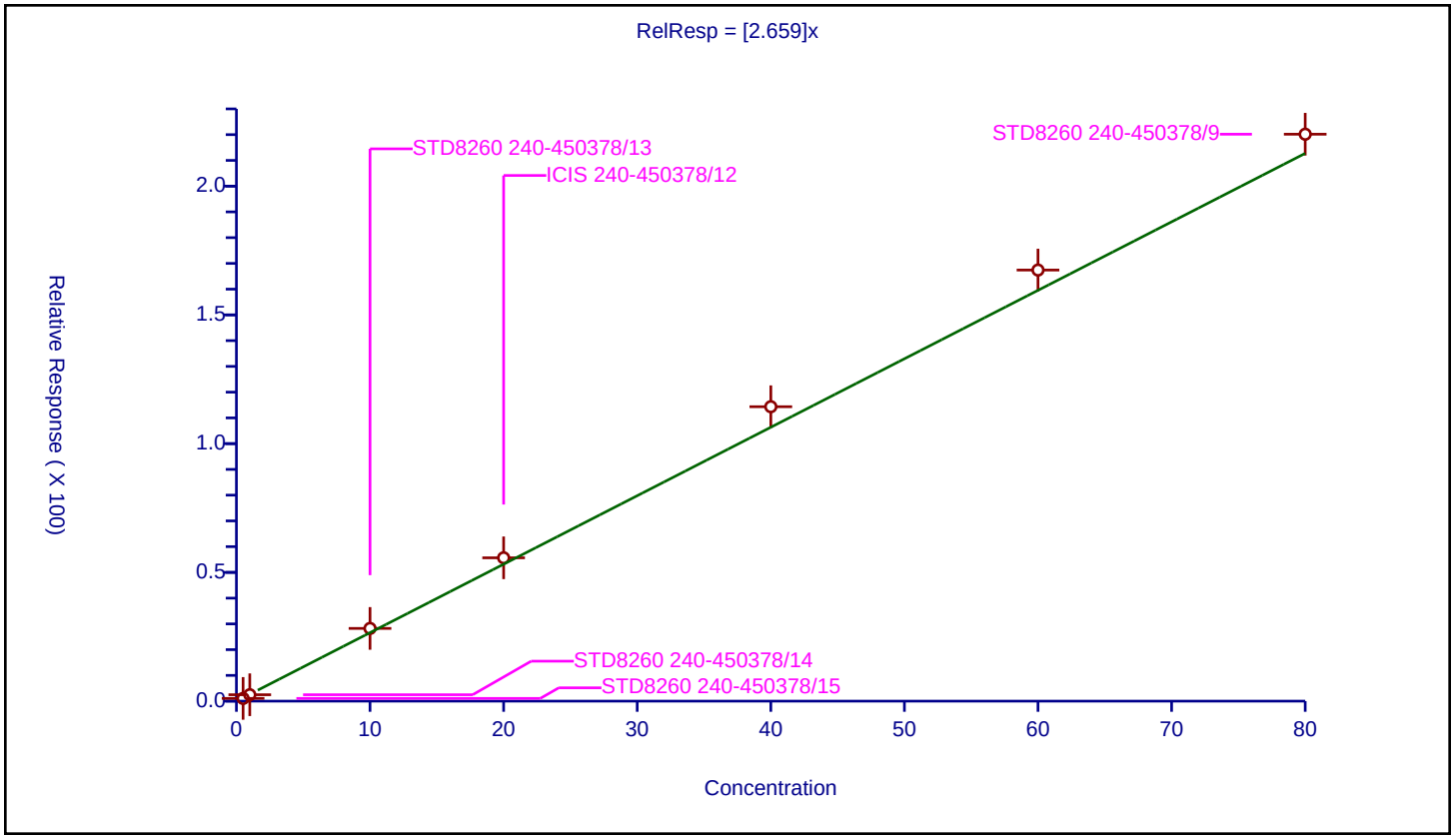
Curve Coefficients

Intercept:	0
Slope:	2.659

Error Coefficients

Standard Error:	2780000
Relative Standard Error:	10.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	1.060112	20.0	385450.0	2.120223	Y
2	STD8260 240-450378/14	1.0	2.485663	20.0	380148.0	2.485663	Y
3	STD8260 240-450378/13	10.0	28.239336	20.0	410385.0	2.823934	Y
4	ICIS 240-450378/12	20.0	55.658832	20.0	412806.0	2.782942	Y
5	STD8260 240-450378/11	40.0	114.345735	20.0	434281.0	2.858643	Y
6	STD8260 240-450378/10	60.0	167.407871	20.0	445572.0	2.790131	Y
7	STD8260 240-450378/9	80.0	220.162898	20.0	451694.0	2.752036	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

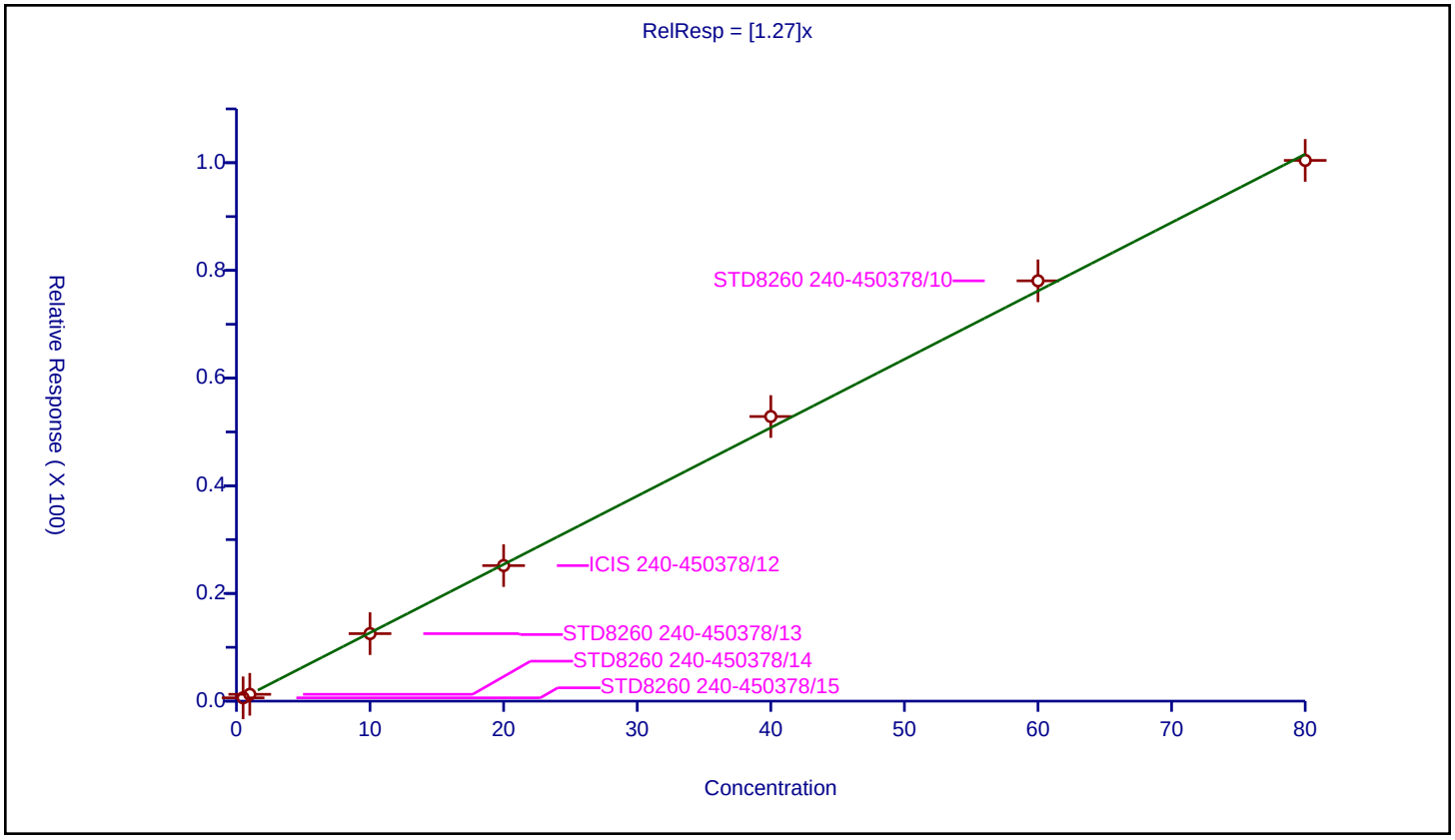
Curve Coefficients

Intercept:	0
Slope:	1.27

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	2.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.615592	20.0	385450.0	1.231184	Y
2	STD8260 240-450378/14	1.0	1.267243	20.0	380148.0	1.267243	Y
3	STD8260 240-450378/13	10.0	12.53925	20.0	410385.0	1.253925	Y
4	ICIS 240-450378/12	20.0	25.176088	20.0	412806.0	1.258804	Y
5	STD8260 240-450378/11	40.0	52.862594	20.0	434281.0	1.321565	Y
6	STD8260 240-450378/10	60.0	78.069268	20.0	445572.0	1.301154	Y
7	STD8260 240-450378/9	80.0	100.431708	20.0	451694.0	1.255396	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

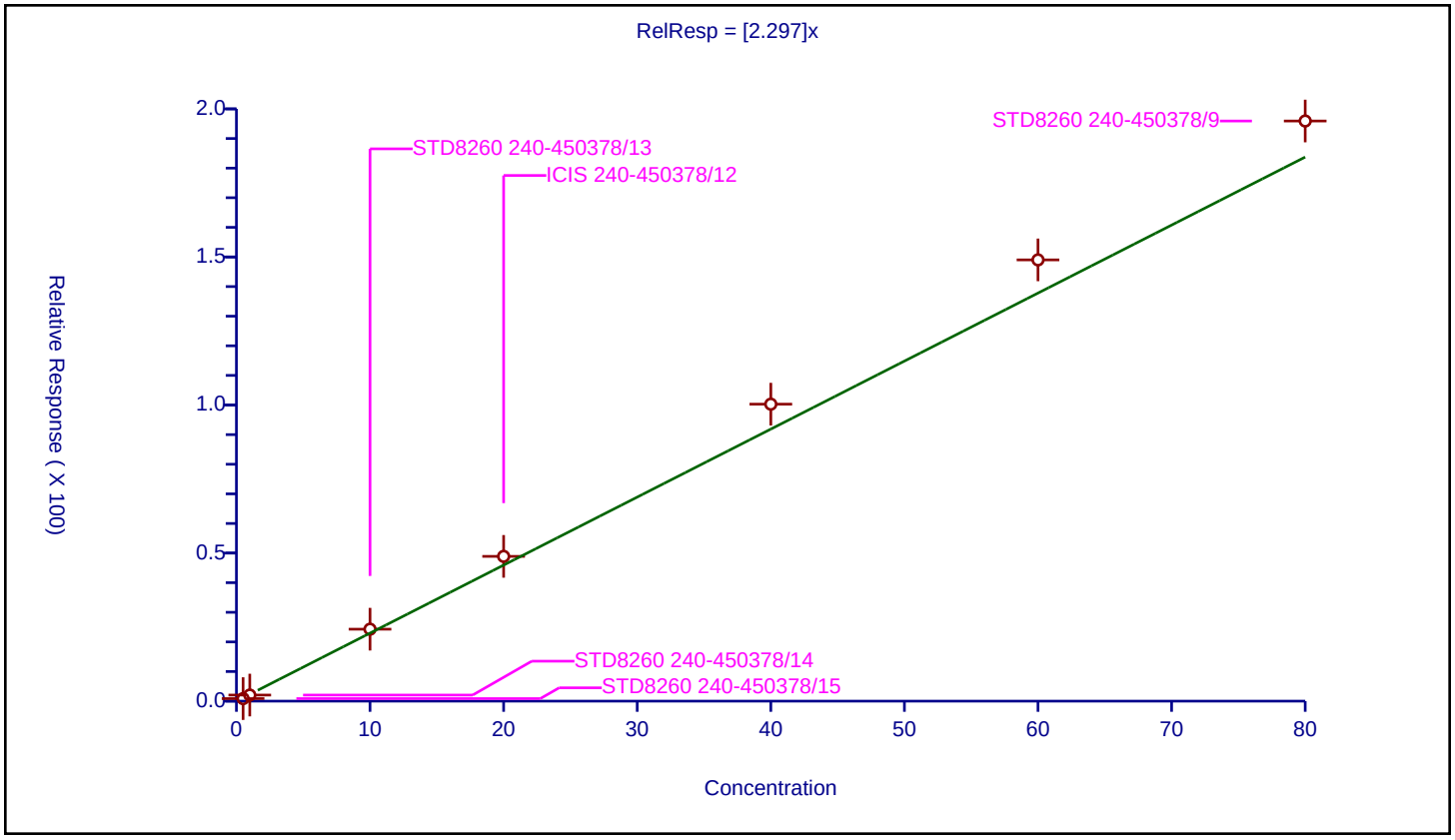
Curve Coefficients

Intercept:	0
Slope:	2.297

Error Coefficients

Standard Error:	2470000
Relative Standard Error:	13.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.855104	20.0	385450.0	1.710209	Y
2	STD8260 240-450378/14	1.0	2.052201	20.0	380148.0	2.052201	Y
3	STD8260 240-450378/13	10.0	24.300888	20.0	410385.0	2.430089	Y
4	ICIS 240-450378/12	20.0	48.889309	20.0	412806.0	2.444465	Y
5	STD8260 240-450378/11	40.0	100.286681	20.0	434281.0	2.507167	Y
6	STD8260 240-450378/10	60.0	149.008421	20.0	445572.0	2.483474	Y
7	STD8260 240-450378/9	80.0	195.910462	20.0	451694.0	2.448881	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

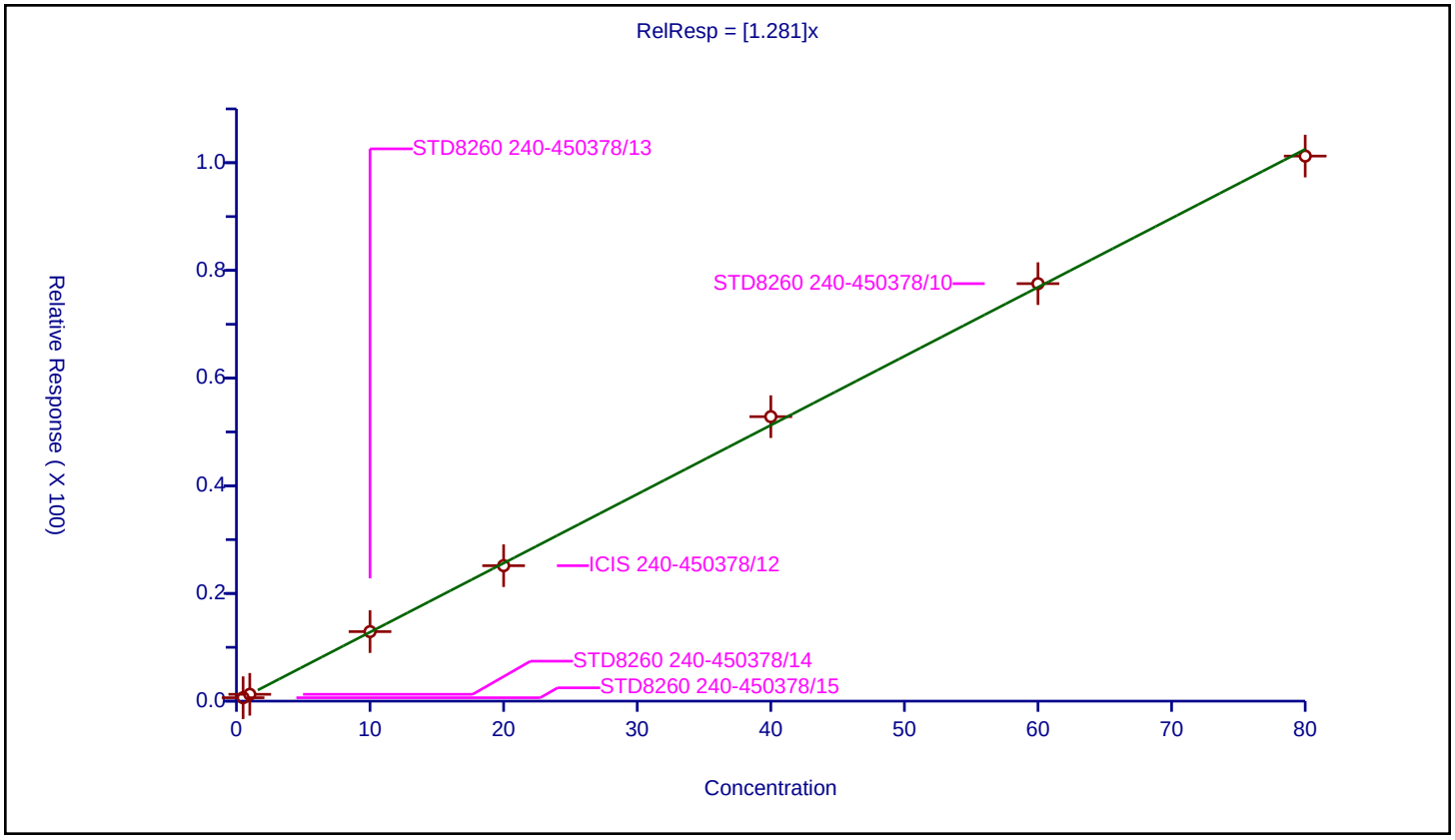
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	1.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.63614	20.0	385450.0	1.272279	Y
2	STD8260 240-450378/14	1.0	1.268822	20.0	380148.0	1.268822	Y
3	STD8260 240-450378/13	10.0	12.913435	20.0	410385.0	1.291343	Y
4	ICIS 240-450378/12	20.0	25.154673	20.0	412806.0	1.257734	Y
5	STD8260 240-450378/11	40.0	52.837172	20.0	434281.0	1.320929	Y
6	STD8260 240-450378/10	60.0	77.543921	20.0	445572.0	1.292399	Y
7	STD8260 240-450378/9	80.0	101.236722	20.0	451694.0	1.265459	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

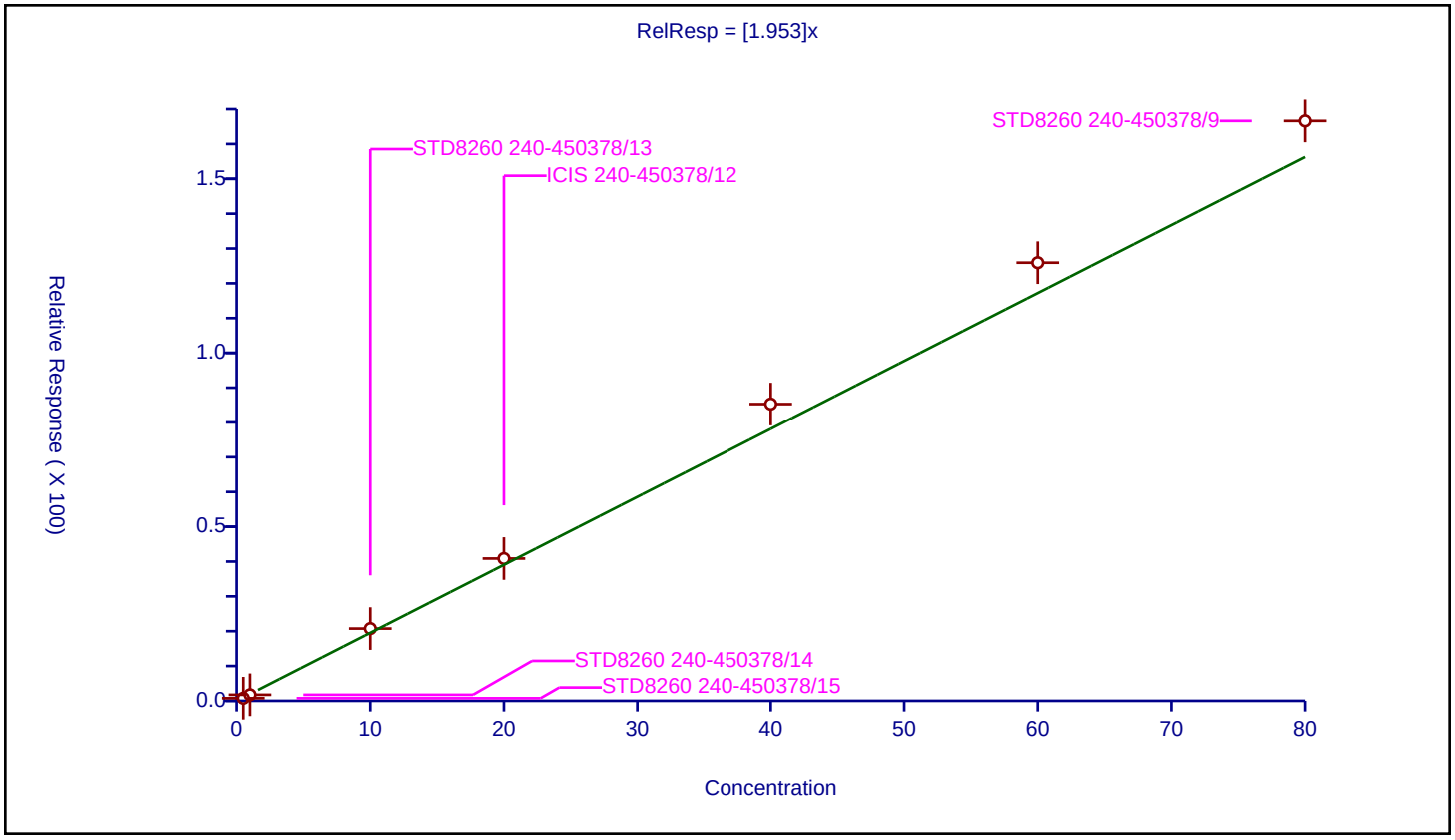
Curve Coefficients

Intercept:	0
Slope:	1.953

Error Coefficients

Standard Error:	2100000
Relative Standard Error:	12.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.749306	20.0	385450.0	1.498612	Y
2	STD8260 240-450378/14	1.0	1.742216	20.0	380148.0	1.742216	Y
3	STD8260 240-450378/13	10.0	20.752172	20.0	410385.0	2.075217	Y
4	ICIS 240-450378/12	20.0	40.870966	20.0	412806.0	2.043548	Y
5	STD8260 240-450378/11	40.0	85.287682	20.0	434281.0	2.132192	Y
6	STD8260 240-450378/10	60.0	125.936639	20.0	445572.0	2.098944	Y
7	STD8260 240-450378/9	80.0	166.622669	20.0	451694.0	2.082783	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

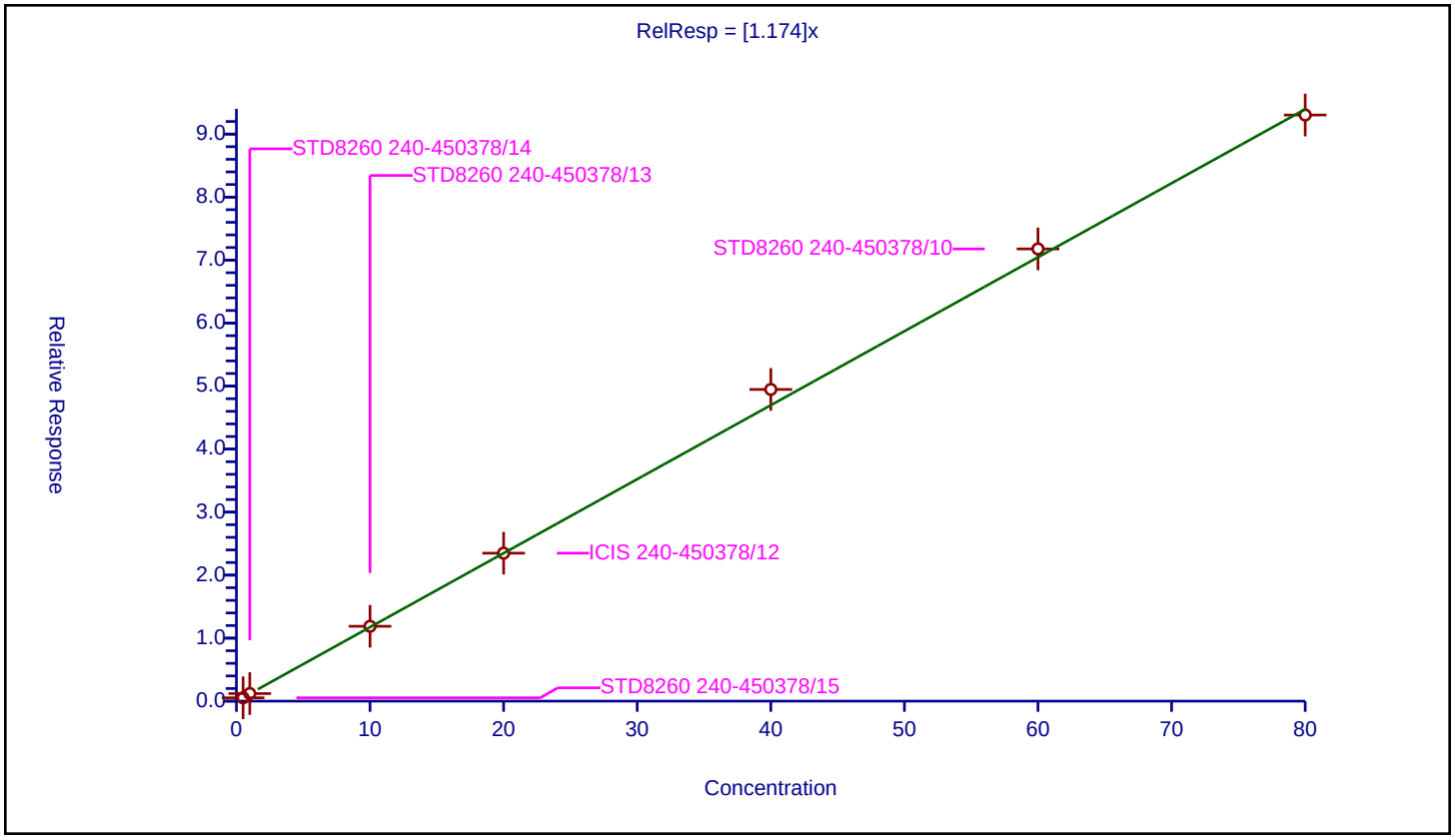
Curve Coefficients

Intercept:	0
Slope:	1.174

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.529822	20.0	385450.0	1.059645	Y
2	STD8260 240-450378/14	1.0	1.202006	20.0	380148.0	1.202006	Y
3	STD8260 240-450378/13	10.0	11.881087	20.0	410385.0	1.188109	Y
4	ICIS 240-450378/12	20.0	23.485511	20.0	412806.0	1.174276	Y
5	STD8260 240-450378/11	40.0	49.471379	20.0	434281.0	1.236784	Y
6	STD8260 240-450378/10	60.0	71.778388	20.0	445572.0	1.196306	Y
7	STD8260 240-450378/9	80.0	93.029795	20.0	451694.0	1.162872	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

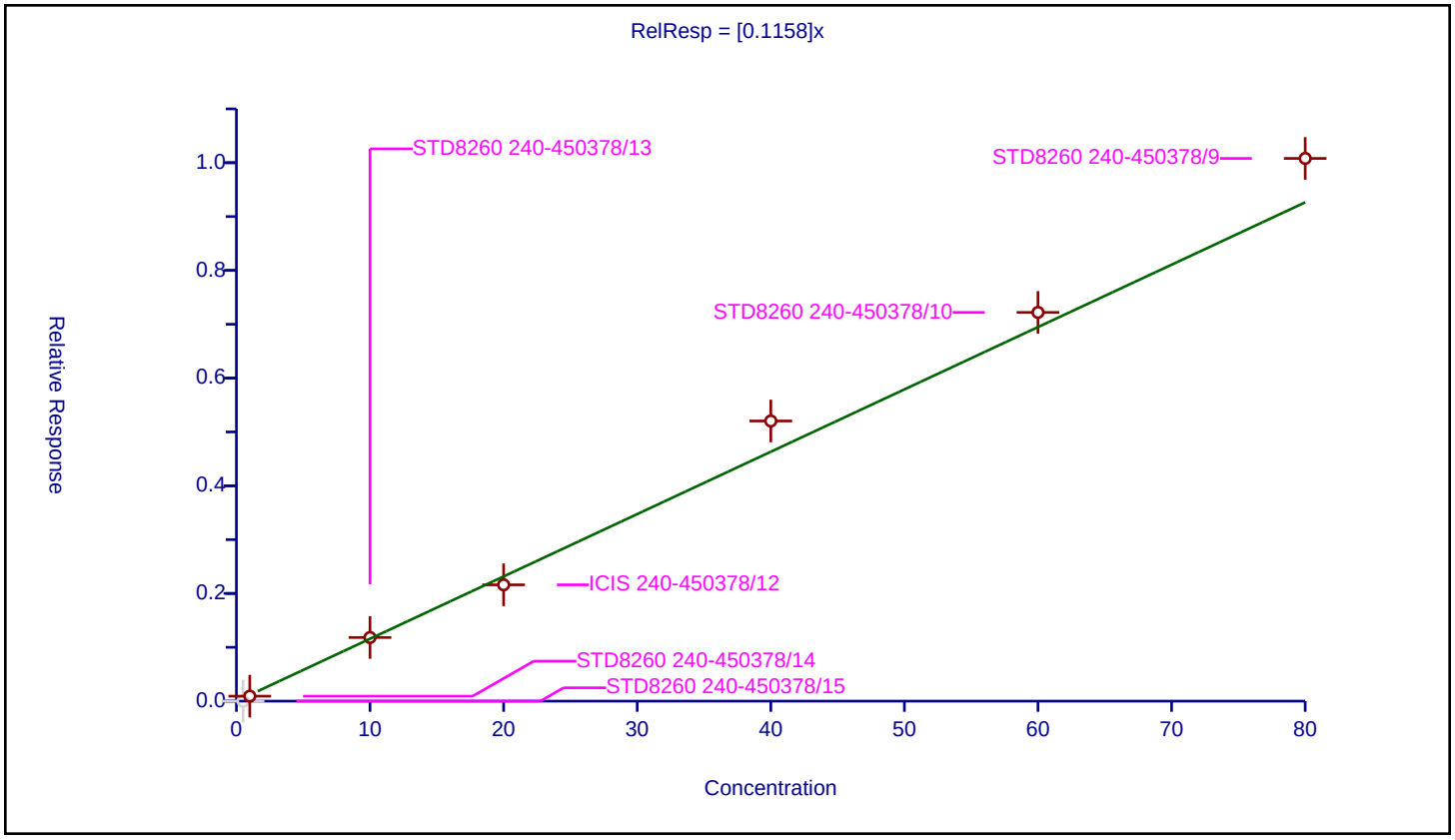
Curve Coefficients

Intercept:	0
Slope:	0.1158

Error Coefficients

Standard Error:	136000
Relative Standard Error:	11.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.0	20.0	385450.0	0.0	N
2	STD8260 240-450378/14	1.0	0.092175	20.0	380148.0	0.092175	Y
3	STD8260 240-450378/13	10.0	1.181866	20.0	410385.0	0.118187	Y
4	ICIS 240-450378/12	20.0	2.160482	20.0	412806.0	0.108024	Y
5	STD8260 240-450378/11	40.0	5.203451	20.0	434281.0	0.130086	Y
6	STD8260 240-450378/10	60.0	7.219709	20.0	445572.0	0.120328	Y
7	STD8260 240-450378/9	80.0	10.079877	20.0	451694.0	0.125998	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

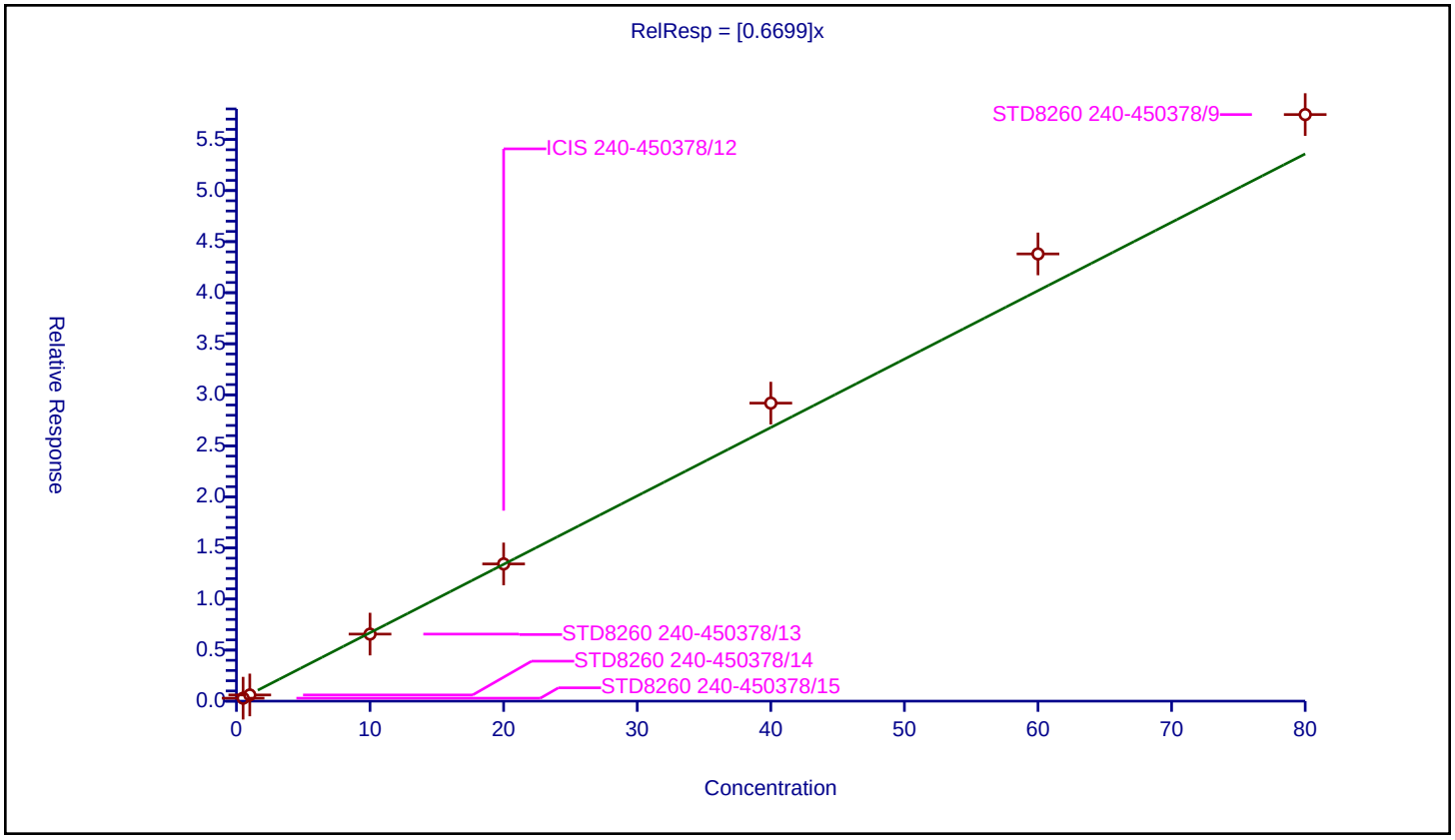
Curve Coefficients

Intercept:	0
Slope:	0.6699

Error Coefficients

Standard Error:	722000
Relative Standard Error:	9.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.288338	20.0	385450.0	0.576677	Y
2	STD8260 240-450378/14	1.0	0.606658	20.0	380148.0	0.606658	Y
3	STD8260 240-450378/13	10.0	6.566029	20.0	410385.0	0.656603	Y
4	ICIS 240-450378/12	20.0	13.437935	20.0	412806.0	0.671897	Y
5	STD8260 240-450378/11	40.0	29.185435	20.0	434281.0	0.729636	Y
6	STD8260 240-450378/10	60.0	43.797366	20.0	445572.0	0.729956	Y
7	STD8260 240-450378/9	80.0	57.445527	20.0	451694.0	0.718069	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

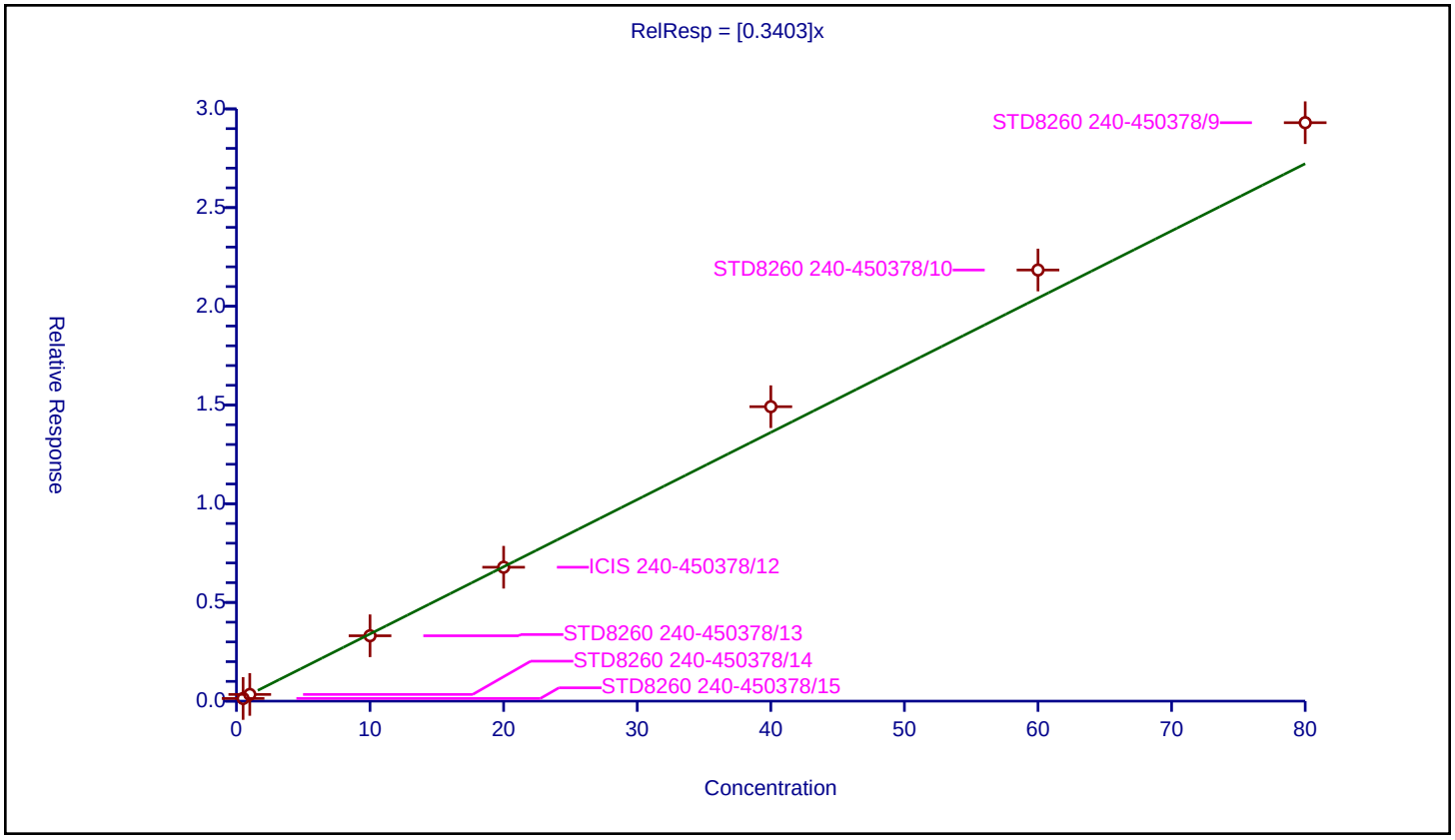
Curve Coefficients

Intercept:	0
Slope:	0.3403

Error Coefficients

Standard Error:	366000
Relative Standard Error:	10.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.1347	20.0	385450.0	0.269399	Y
2	STD8260 240-450378/14	1.0	0.339184	20.0	380148.0	0.339184	Y
3	STD8260 240-450378/13	10.0	3.312109	20.0	410385.0	0.331211	Y
4	ICIS 240-450378/12	20.0	6.78275	20.0	412806.0	0.339138	Y
5	STD8260 240-450378/11	40.0	14.914997	20.0	434281.0	0.372875	Y
6	STD8260 240-450378/10	60.0	21.83885	20.0	445572.0	0.363981	Y
7	STD8260 240-450378/9	80.0	29.301164	20.0	451694.0	0.366265	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

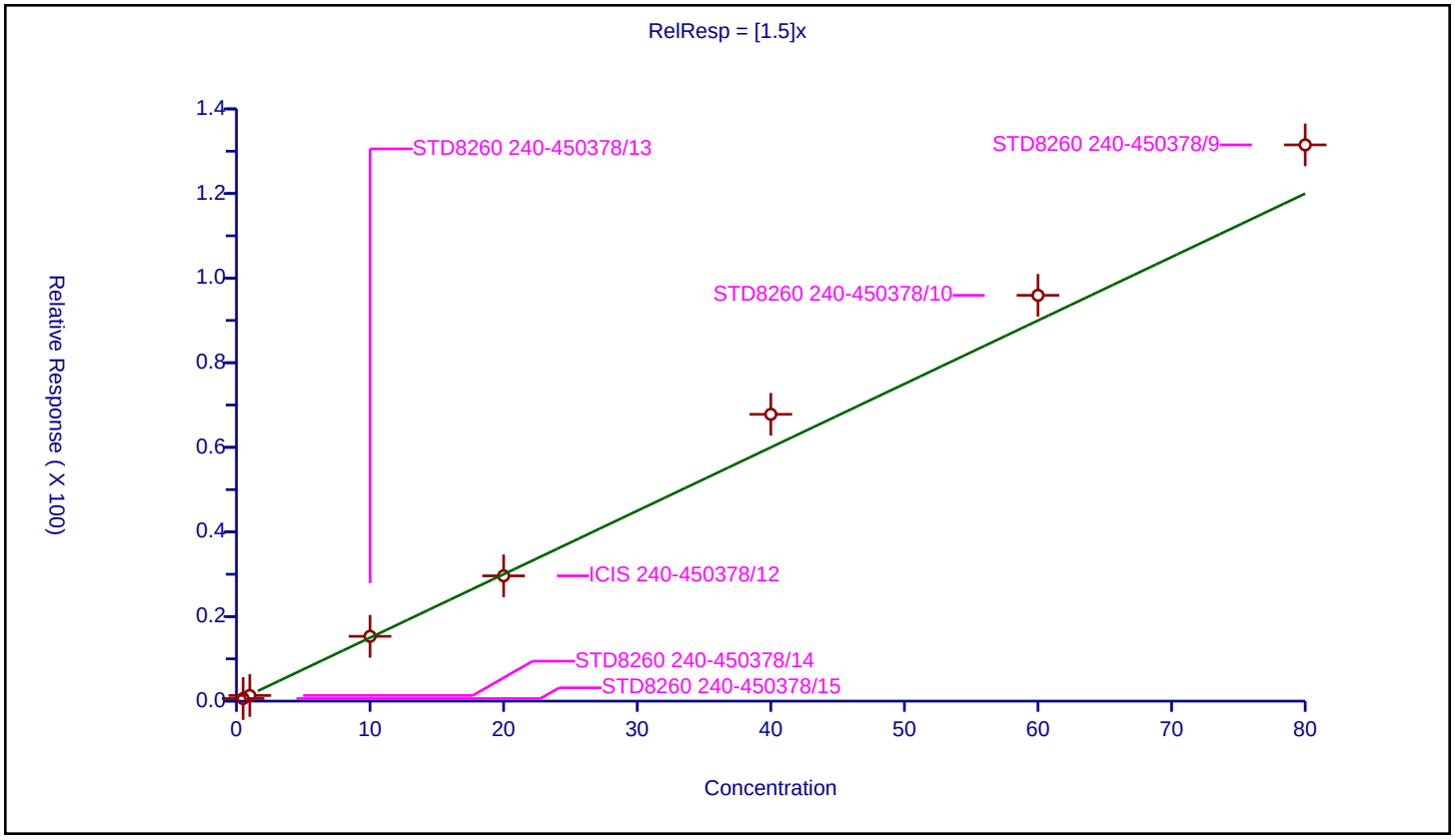
Curve Coefficients

Intercept:	0
Slope:	1.5

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	11.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.606304	20.0	385450.0	1.212609	Y
2	STD8260 240-450378/14	1.0	1.334375	20.0	380148.0	1.334375	Y
3	STD8260 240-450378/13	10.0	15.323075	20.0	410385.0	1.532307	Y
4	ICIS 240-450378/12	20.0	29.620887	20.0	412806.0	1.481044	Y
5	STD8260 240-450378/11	40.0	67.804394	20.0	434281.0	1.69511	Y
6	STD8260 240-450378/10	60.0	95.93417	20.0	445572.0	1.598903	Y
7	STD8260 240-450378/9	80.0	131.491674	20.0	451694.0	1.643646	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

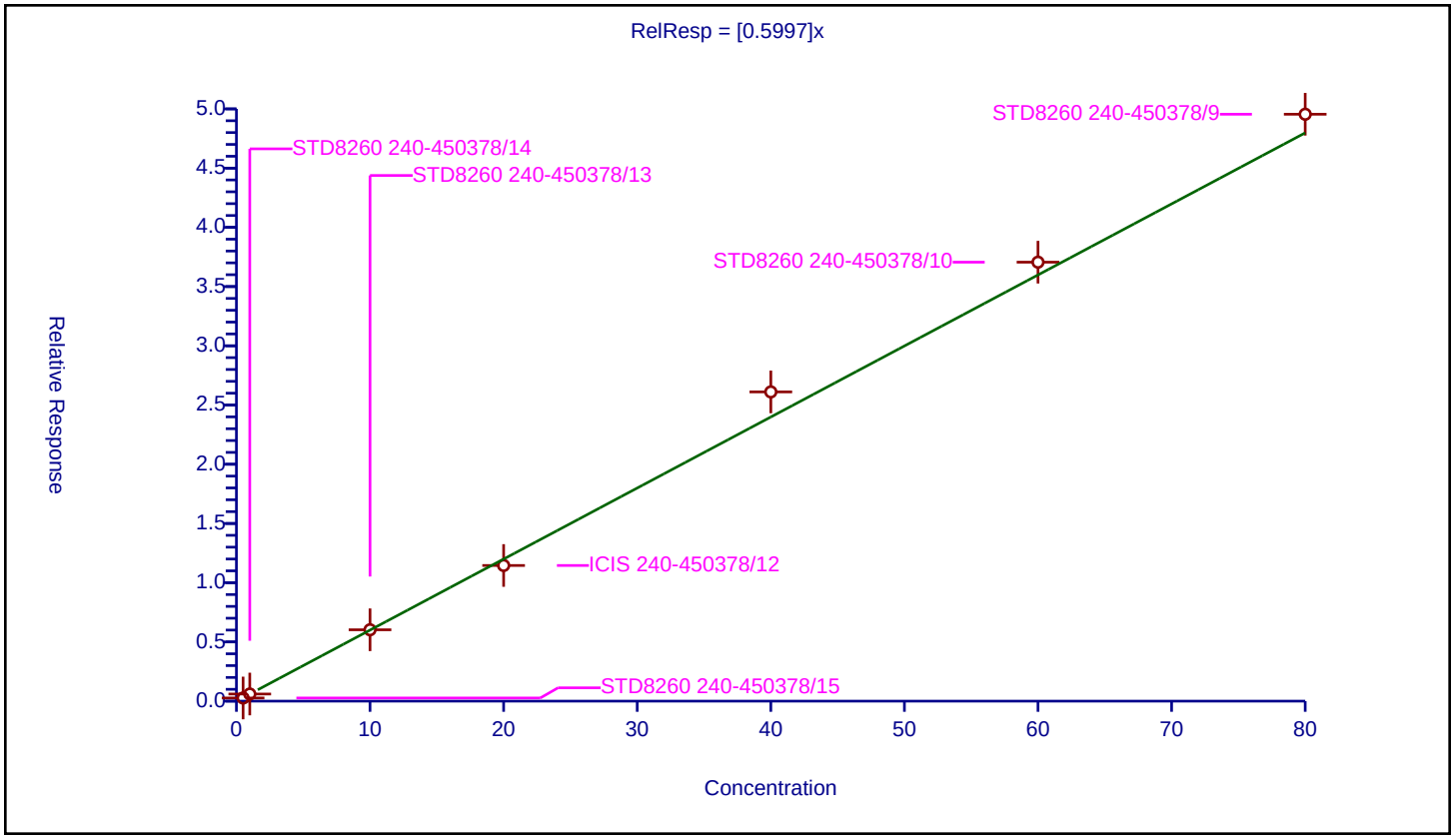
Curve Coefficients

Intercept:	0
Slope:	0.5997

Error Coefficients

Standard Error:	623000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-450378/15	0.5	0.265612	20.0	385450.0	0.531223	Y
2	STD8260 240-450378/14	1.0	0.601766	20.0	380148.0	0.601766	Y
3	STD8260 240-450378/13	10.0	6.025951	20.0	410385.0	0.602595	Y
4	ICIS 240-450378/12	20.0	11.453273	20.0	412806.0	0.572664	Y
5	STD8260 240-450378/11	40.0	26.10729	20.0	434281.0	0.652682	Y
6	STD8260 240-450378/10	60.0	37.0596	20.0	445572.0	0.61766	Y
7	STD8260 240-450378/9	80.0	49.547083	20.0	451694.0	0.619339	Y



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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-450378/24	UXM31037.D
Level 2	STDA9 240-450378/23	UXM31036.D
Level 3	STDA9 240-450378/22	UXM31035.D
Level 4	STDA9 240-450378/21	UXM31034.D
Level 5	STDA9 240-450378/20	UXM31033.D
Level 6	STDA9 240-450378/19	UXM31032.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								
Acetonitrile	0.0260 0.0224	0.0265	0.0246	0.0232	0.0222	Ave		0.0241				7.6		20.0			
Diisopropyl ether	0.1490 0.1993	0.1554	0.1862	0.1892	0.1889	Ave		0.1780				11.6		20.0			
2-Chloro-1,3-butadiene	0.2405 0.3168	0.2679	0.3121	0.3084	0.2984	Ave		0.2907				10.4		20.0			
Ethyl-t-butyl ether (ETBE)	0.4301 0.5902	0.4583	0.5407	0.5581	0.5559	Ave		0.5222				12.1		20.0			
Ethyl acetate	0.1072 0.1611	0.1236	0.1437	0.1500	0.1519	Ave		0.1396				14.5		20.0			
Propionitrile	0.0225 0.0284	0.0267	0.0286	0.0288	0.0278	Ave		0.0271				8.8		20.0			
Methacrylonitrile	0.0866 0.1124	0.0889	0.1062	0.1066	0.1055	Ave		0.1010				10.5		20.0			
Isooctane	0.4089 0.6831	0.4887	0.6101	0.6519	0.6238	Ave		0.5777				18.4		20.0			
Tert-amyl-methyl ether (TAME)	0.4509 0.5900	0.4262	0.5222	0.5457	0.5544	Ave		0.5149				12.3		20.0			
n-Butanol	+++++ 0.0048	0.0022	0.0037	0.0040	0.0043	Lin1	-0.0083	0.0046				14.6			0.9950		0.9900
Ethyl acrylate	0.1416 0.2306	0.1557	0.1891	0.2034	0.2108	Ave		0.1885				18.0		20.0			
Methyl methacrylate	0.0993 0.1473	0.1016	0.1253	0.1336	0.1370	Ave		0.1240				15.8		20.0			
2-Nitropropane	0.0294 0.0489	0.0320	0.0398	0.0423	0.0453	Ave		0.0396				19.1		20.0			
n-Butyl acetate	0.1765 0.2279	0.1621	0.1977	0.2074	0.2149	Ave		0.1978				12.4		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

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-Chlorohexane	0.3742 0.4594	0.3719	0.4186	0.4403	0.4340	Ave		0.4164				8.7		20.0			
Cyclohexanone	+++++ 0.0135	0.0080	0.0111	0.0118	0.0127	Ave		0.0114				18.6		20.0			
Pentachloroethane	0.0999 0.1408	0.0697	0.0710	0.0986	0.1164	Ave		0.0994				27.4	*	20.0			
1,2,3-Trimethylbenzene	1.6603 2.1922	1.6949	2.0277	2.0909	2.0909	Ave		1.9595				11.5		20.0			
Benzyl chloride	+++++ 0.2519	0.1562	0.1929	0.2145	0.2326	Ave		0.2096				17.6		20.0			
1,3,5-Trichlorobenzene	0.6940 0.9027	0.7767	0.8661	0.8680	0.8608	Ave		0.8280				9.4		20.0			
2-Methylnaphthalene	0.4414 0.7171	0.5265	0.5761	0.6401	0.6755	Ave		0.5961				17.1		20.0			
1-Methylnaphthalene	0.3719 0.6339	0.4611	0.5537	0.5969	0.6095	Ave		0.5378				18.9		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-450378/24	UXM31037.D
Level 2	STDA9 240-450378/23	UXM31036.D
Level 3	STDA9 240-450378/22	UXM31035.D
Level 4	STDA9 240-450378/21	UXM31034.D
Level 5	STDA9 240-450378/20	UXM31033.D
Level 6	STDA9 240-450378/19	UXM31032.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	5457 896718	11301	108754	215625	442777	5.00 800	10.0	100	200	400
Diisopropyl ether	FB	Ave	3133 798576	6625	82477	175721	376478	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	5057 1269422	11420	138254	286358	594715	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	9044 2364815	19533	239506	518262	1107852	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl acetate	FB	Ave	4509 1290936	10536	127343	278537	605390	1.00 160	2.00	20.0	40.0	80.0
Propionitrile	FB	Ave	4727 1139003	11381	126888	267016	553096	5.00 800	10.0	100	200	400
Methacrylonitrile	FB	Ave	18208 4504926	37890	470374	989714	2101907	5.00 800	10.0	100	200	400
Isooctane	FB	Ave	8598 2737094	20830	270247	605373	1243289	0.500 80.0	1.00	10.0	20.0	40.0
Tert-amyl-methyl ether (TAME)	FB	Ave	9481 2364034	18165	231324	506726	1104984	0.500 80.0	1.00	10.0	20.0	40.0
n-Butanol	FB	Lin1	+++++ 480104	2295	41072	93035	214983	+++++ 2000	25.0	250	500	1000
Ethyl acrylate	FB	Ave	2978 923794	6636	83776	188923	420020	0.500 80.0	1.00	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	4174 1180481	8663	110975	248049	546060	1.00 160	2.00	20.0	40.0	80.0
2-Nitropropane	FB	Ave	1238 391604	2732	35233	78628	180588	1.00 160	2.00	20.0	40.0	80.0
n-Butyl acetate	FB	Ave	3712	6910	87580	192617	428298	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			913202					80.0				
1-Chlorohexane	CBNZ d5	Ave	6381 1455198	12907	151095	328318	678828	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexanone	DCBd 4	Ave	+++++ 229096	1498	21341	46930	105799	+++++ 800	10.0	100	200	400
Pentachloroethane	CBNZ d5	Ave	3408 892044	4835	51259	147100	364165	1.00 160	2.00	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	15560 3712698	31838	389395	828541	1747967	0.500 80.0	1.00	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Ave	+++++ 426558	2934	37047	85003	194435	+++++ 80.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	6504 1528824	14589	166326	343938	719649	0.500 80.0	1.00	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	8273 2428941	19778	221271	507266	1129364	1.00 160	2.00	20.0	40.0	80.0
1-Methylnaphthalene	DCBd 4	Ave	6971 2147009	17322	212650	473084	1019067	1.00 160	2.00	20.0	40.0	80.0

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 450378

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 16:30 Calibration End Date: 09/08/2020 18:33 Calibration ID: 58345

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-450378/24	UXM31037.D
Level 2	STDA9 240-450378/23	UXM31036.D
Level 3	STDA9 240-450378/22	UXM31035.D
Level 4	STDA9 240-450378/21	UXM31034.D
Level 5	STDA9 240-450378/20	UXM31033.D
Level 6	STDA9 240-450378/19	UXM31032.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
n-Butanol	+++++	19.3						50				

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31032.D
Lims ID: stdA9 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Sep-2020 16:30:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-019
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:34 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:22:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1001695	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	85	791870	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	423399	20.0	20.0	
25 Acetonitrile	41	3.580	3.581	-0.001	99	896718	800.0	741.7	
36 Isopropyl ether	87	4.399	4.399	0.000	91	798576	80.0	89.6	
37 2-Chloro-1,3-butadiene	53	4.434	4.446	-0.012	90	1269422	80.0	87.2	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	96	2364815	80.0	90.4	
43 Ethyl acetate	43	4.885	4.885	0.000	98	1290936	160.0	184.7	
42 Propionitrile	54	4.920	4.921	-0.001	99	1139003	800.0	838.4	
44 Methacrylonitrile	41	5.051	5.051	0.000	88	4504926	800.0	890.3	
163 Isooctane	57	5.703	5.703	0.000	96	2737094	80.0	94.6	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	98	2364034	80.0	91.7	
57 n-Butanol	56	6.059	6.059	0.000	84	480104	2000.0	2109.8	
59 Ethyl acrylate	55	6.225	6.225	0.000	98	923794	80.0	97.8	
62 Methyl methacrylate	41	6.427	6.427	0.000	85	1180481	160.0	190.1	
66 2-Nitropropane	41	6.818	6.818	0.000	99	391604	160.0	197.3	
77 n-Butyl acetate	43	7.968	7.968	0.000	95	913202	80.0	92.2	
81 1-Chlorohexane	91	8.585	8.585	0.000	91	1455198	80.0	88.3	
91 Cyclohexanone	55	9.640	9.640	0.000	90	229096	800.0	947.4	
103 Pentachloroethane	167	10.482	10.482	0.000	97	892044	160.0	226.6	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	3712698	80.0	89.5	
110 Benzyl chloride	126	11.004	11.004	0.000	99	426558	80.0	96.1	
114 1,3,5-Trichlorobenzene	180	12.213	12.214	-0.001	98	1528824	80.0	87.2	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	2428941	160.0	192.5	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	2147009	160.0	188.6	

Reagents:

vmra9w_00359	Amount Added:	64.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

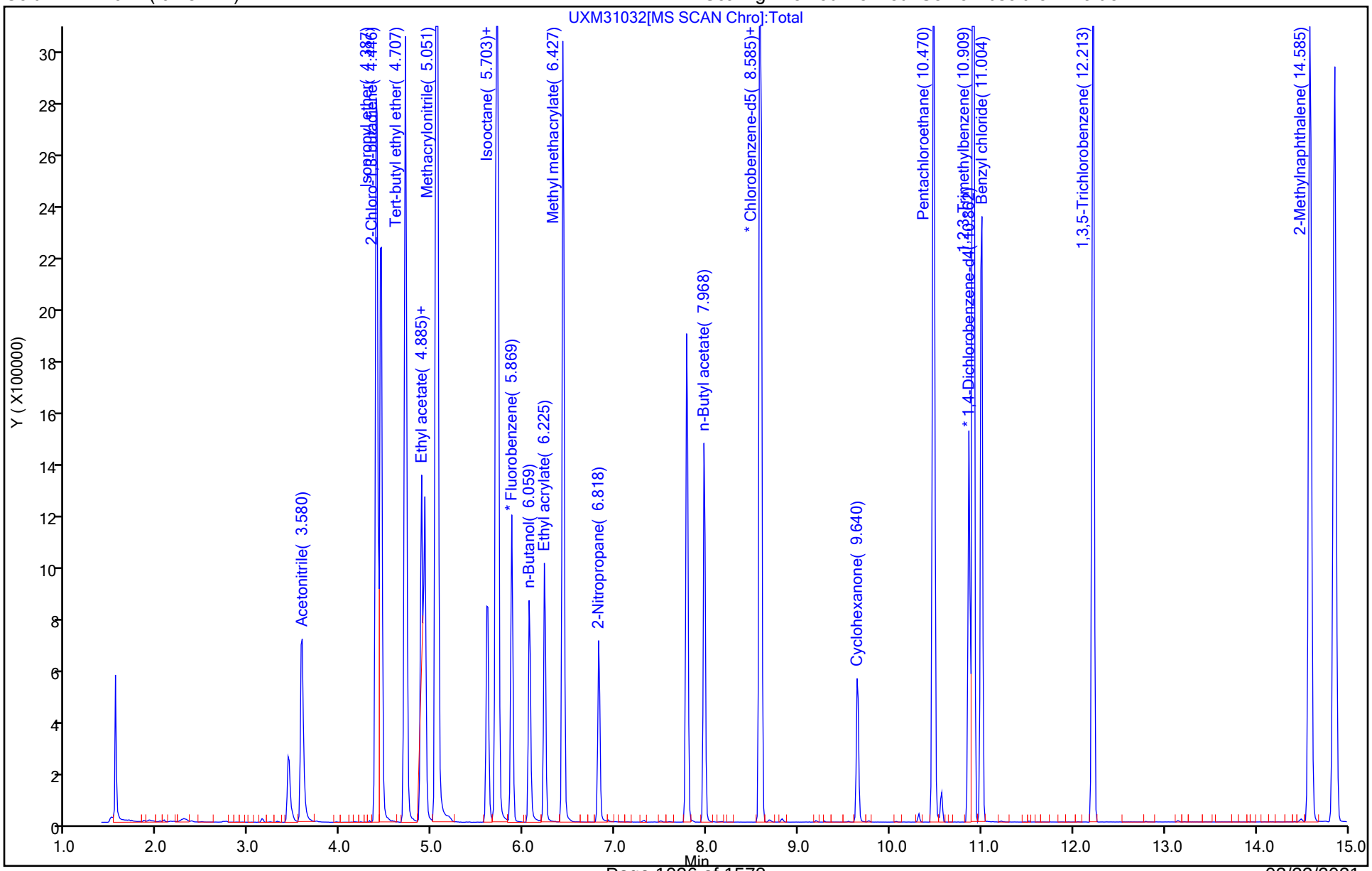
Report Date: 09-Sep-2020 08:31:35 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31032.D

Injection Date:	08-Sep-2020 16:30:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L6			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31033.D
Lims ID: stdA9 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Sep-2020 16:55:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-020
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:36 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:22:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	996485	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	782124	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	92	417997	20.0	20.0	
25 Acetonitrile	41	3.581	3.581	0.000	100	442777	400.0	368.2	
36 Isopropyl ether	87	4.399	4.399	0.000	91	376478	40.0	42.4	
37 2-Chloro-1,3-butadiene	53	4.446	4.446	0.000	90	594715	40.0	41.1	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	96	1107852	40.0	42.6	
43 Ethyl acetate	43	4.885	4.885	0.000	99	605390	80.0	87.0	
42 Propionitrile	54	4.921	4.921	0.000	99	553096	400.0	409.2	
44 Methacrylonitrile	41	5.051	5.051	0.000	88	2101907	400.0	417.6	
163 Isooctane	57	5.703	5.703	0.000	96	1243289	40.0	43.2	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	98	1104984	40.0	43.1	
57 n-Butanol	56	6.059	6.059	0.000	85	214983	1000.0	959.6	
59 Ethyl acrylate	55	6.225	6.225	0.000	98	420020	40.0	44.7	
62 Methyl methacrylate	41	6.427	6.427	0.000	83	546060	80.0	88.4	
66 2-Nitropropane	41	6.818	6.818	0.000	99	180588	80.0	91.5	
77 n-Butyl acetate	43	7.968	7.968	0.000	94	428298	40.0	43.5	
81 1-Chlorohexane	91	8.585	8.585	0.000	93	678828	40.0	41.7	
91 Cyclohexanone	55	9.640	9.640	0.000	89	105799	400.0	443.2	
103 Pentachloroethane	167	10.482	10.482	0.000	96	364165	80.0	93.7	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	1747967	40.0	42.7	
110 Benzyl chloride	126	11.004	11.004	0.000	99	194435	40.0	44.4	
114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	98	719649	40.0	41.6	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	1129364	80.0	90.7	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	1019067	80.0	90.7	

Reagents:

vmra9w_00359	Amount Added: 32.00	Units: uL
vm50is_stk_a_00007	Amount Added: 2.00	Units: uL

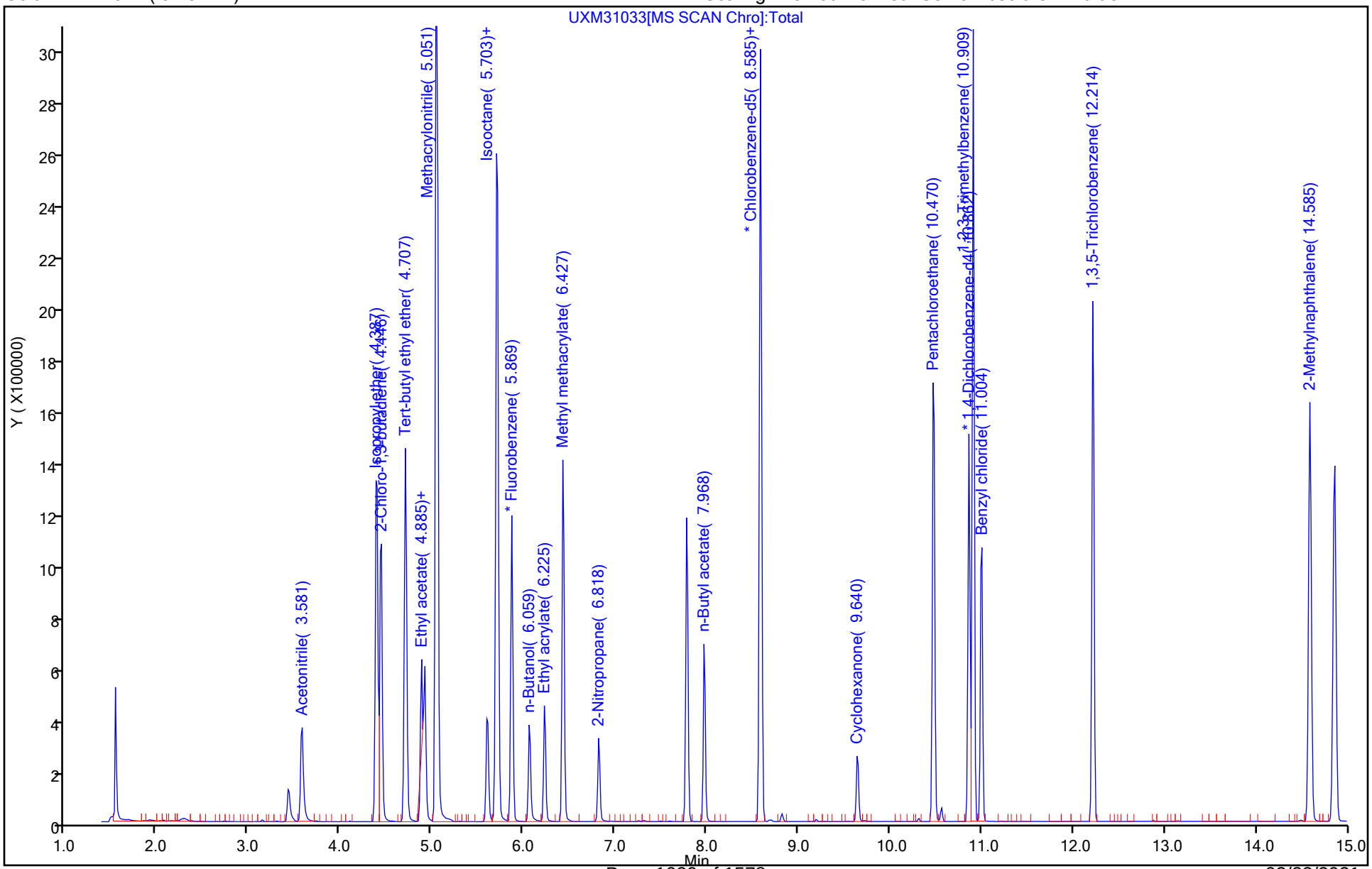
Report Date: 09-Sep-2020 08:31:37 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31033.D

Injection Date:	08-Sep-2020 16:55:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L5			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31034.D
Lims ID: stdA9 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Sep-2020 17:19:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-021
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:38 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:22:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	928653	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	745740	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	396256	20.0	20.0	
25 Acetonitrile	41	3.580	3.581	-0.001	99	215625	200.0	192.4	
36 Isopropyl ether	87	4.399	4.399	0.000	91	175721	20.0	21.3	
37 2-Chloro-1,3-butadiene	53	4.446	4.446	0.000	89	286358	20.0	21.2	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	96	518262	20.0	21.4	
43 Ethyl acetate	43	4.885	4.885	0.000	98	278537	40.0	43.0	
42 Propionitrile	54	4.920	4.921	-0.001	99	267016	200.0	212.0	
44 Methacrylonitrile	41	5.051	5.051	0.000	88	989714	200.0	211.0	
163 Isooctane	57	5.703	5.703	0.000	96	605373	20.0	22.6	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	98	506726	20.0	21.2	
57 n-Butanol	56	6.059	6.059	0.000	85	93035	500.0	455.3	
59 Ethyl acrylate	55	6.225	6.225	0.000	99	188923	20.0	21.6	
62 Methyl methacrylate	41	6.427	6.427	0.000	84	248049	40.0	43.1	
66 2-Nitropropane	41	6.818	6.818	0.000	99	78628	40.0	42.7	
77 n-Butyl acetate	43	7.968	7.968	0.000	95	192617	20.0	21.0	
81 1-Chlorohexane	91	8.585	8.585	0.000	92	328318	20.0	21.1	
91 Cyclohexanone	55	9.640	9.640	0.000	89	46930	200.0	207.4	
103 Pentachloroethane	167	10.482	10.482	0.000	95	147100	40.0	39.7	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	828541	20.0	21.3	
110 Benzyl chloride	126	11.004	11.004	0.000	99	85003	20.0	20.5	
114 1,3,5-Trichlorobenzene	180	12.213	12.214	-0.001	98	343938	20.0	21.0	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	507266	40.0	43.0	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	473084	40.0	44.4	

Reagents:

vmra9w_00359	Amount Added: 16.00	Units: uL
vm50is_stk_a_00007	Amount Added: 2.00	Units: uL

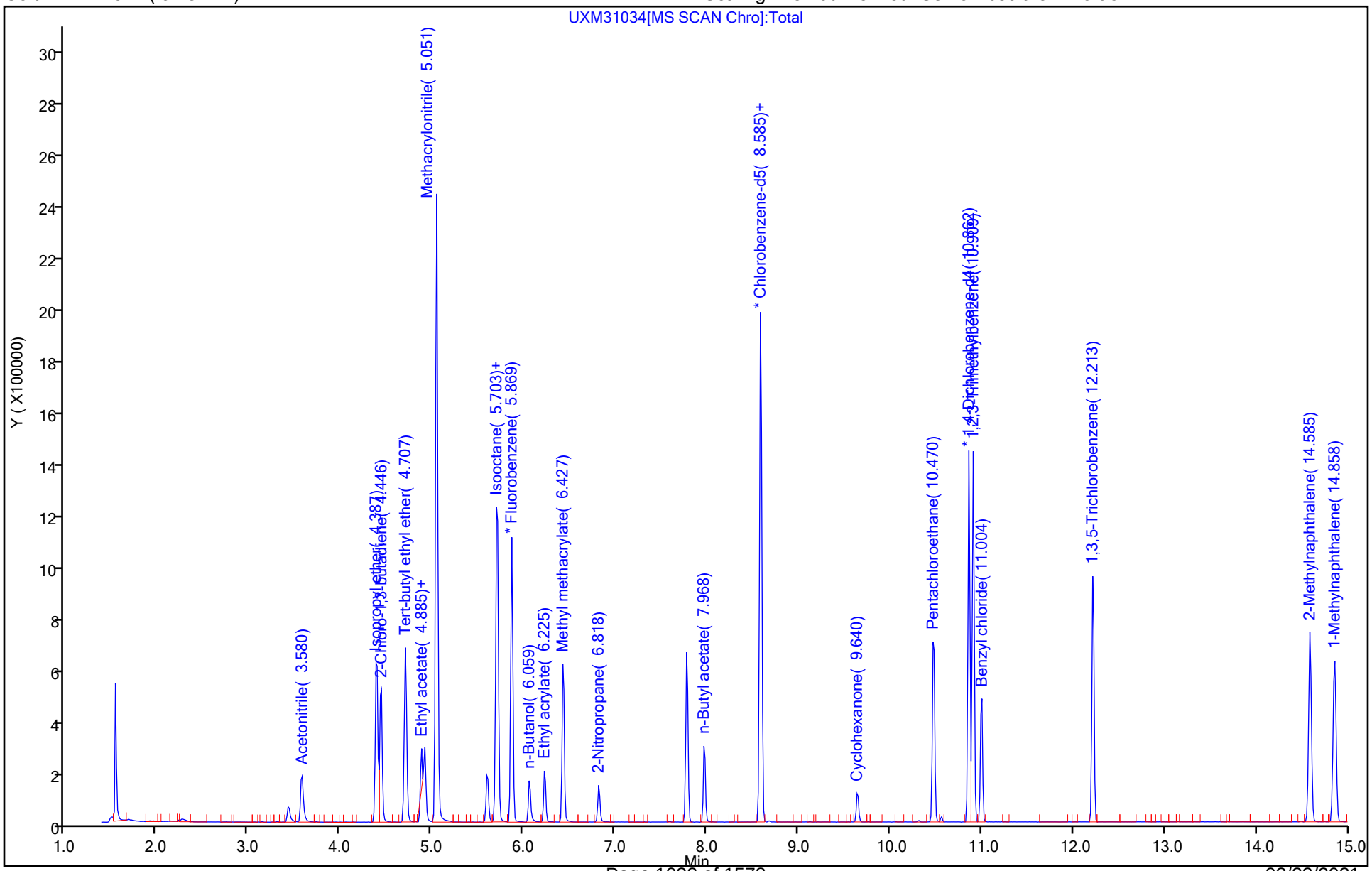
Report Date: 09-Sep-2020 08:31:39 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31034.D

Injection Date:	08-Sep-2020 17:19:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L4			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31035.D
Lims ID: stdA9 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Sep-2020 17:44:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-022
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:40 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:22:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	885960	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	721884	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	384067	20.0	20.0	
25 Acetonitrile	41	3.581	3.581	0.000	98	108754	100.0	101.7	
36 Isopropyl ether	87	4.399	4.399	0.000	92	82477	10.0	10.5	
37 2-Chloro-1,3-butadiene	53	4.446	4.446	0.000	90	138254	10.0	10.7	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	96	239506	10.0	10.4	
43 Ethyl acetate	43	4.885	4.885	0.000	98	127343	20.0	20.6	
42 Propionitrile	54	4.921	4.921	0.000	99	126888	100.0	105.6	
44 Methacrylonitrile	41	5.051	5.051	0.000	88	470374	100.0	105.1	
163 Isooctane	57	5.703	5.703	0.000	96	270247	10.0	10.6	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	97	231324	10.0	10.1	
57 n-Butanol	56	6.059	6.059	0.000	84	41072	250.0	220.4	
59 Ethyl acrylate	55	6.225	6.225	0.000	99	83776	10.0	10.0	
62 Methyl methacrylate	41	6.427	6.427	0.000	84	110975	20.0	20.2	
66 2-Nitropropane	41	6.818	6.818	0.000	98	35233	20.0	20.1	
77 n-Butyl acetate	43	7.968	7.968	0.000	95	87580	10.0	10.0	
81 1-Chlorohexane	91	8.585	8.585	0.000	92	151095	10.0	10.1	
91 Cyclohexanone	55	9.640	9.640	0.000	88	21341	100.0	97.3	
103 Pentachloroethane	167	10.482	10.482	0.000	92	51259	20.0	14.3	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	389395	10.0	10.3	
110 Benzyl chloride	126	11.004	11.004	0.000	99	37047	10.0	9.20	
114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	98	166326	10.0	10.5	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	221271	20.0	19.3	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	212650	20.0	20.6	

Reagents:

vmra9w_00359	Amount Added:	8.00	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

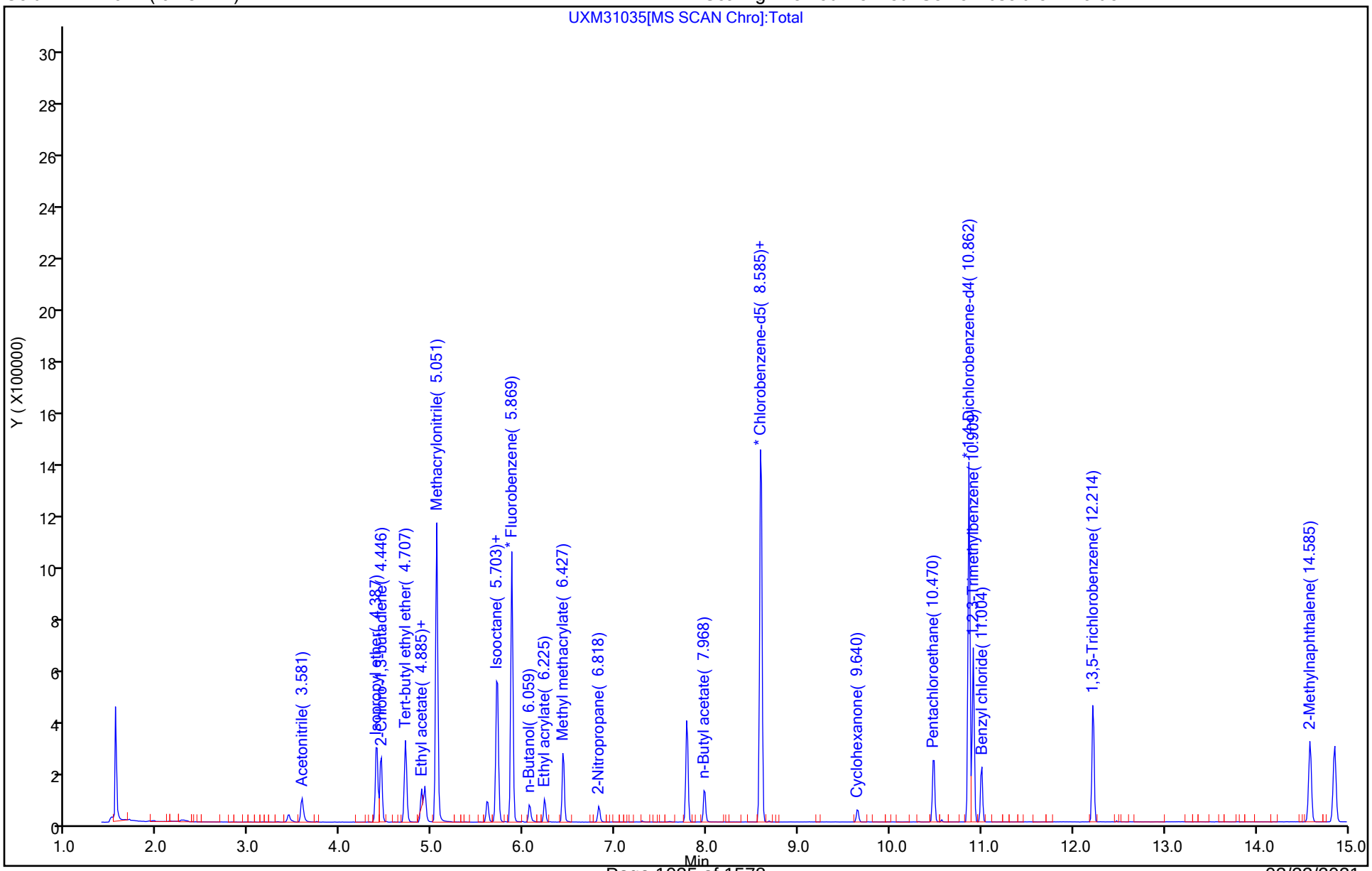
Report Date: 09-Sep-2020 08:31:41 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31035.D

Injection Date:	08-Sep-2020 17:44:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L3			Worklist Smp#:	22
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31036.D
Lims ID: stdA9 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Sep-2020 18:09:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-023
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:42 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:23:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	852493	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	694161	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	375681	20.0	20.0	
25 Acetonitrile	41	3.581	3.581	0.000	98	11301	10.0	11.0	
36 Isopropyl ether	87	4.387	4.399	-0.012	89	6625	1.00	0.8731	
37 2-Chloro-1,3-butadiene	53	4.446	4.446	0.000	87	11420	1.00	0.9217	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	95	19533	1.00	0.8775	
43 Ethyl acetate	43	4.885	4.885	0.000	98	10536	2.00	1.77	
42 Propionitrile	54	4.921	4.921	0.000	97	11381	10.0	9.84	
44 Methacrylonitrile	41	5.051	5.051	0.000	87	37890	10.0	8.80	
163 Isooctane	57	5.703	5.703	0.000	88	20830	1.00	0.8458	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	86	18165	1.00	0.8277	
57 n-Butanol	56	6.071	6.059	0.012	75	2295	25.0	29.8	
59 Ethyl acrylate	55	6.237	6.225	0.012	93	6636	1.00	0.8258	
62 Methyl methacrylate	41	6.427	6.427	0.000	82	8663	2.00	1.64	
66 2-Nitropropane	41	6.818	6.818	0.000	97	2732	2.00	1.62	
77 n-Butyl acetate	43	7.968	7.968	0.000	93	6910	1.00	0.8197	
81 1-Chlorohexane	91	8.585	8.585	0.000	77	12907	1.00	0.8931	
91 Cyclohexanone	55	9.640	9.640	0.000	1	1498	10.0	6.98	
103 Pentachloroethane	167	10.482	10.482	0.000	90	4835	2.00	1.40	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	95	31838	1.00	0.8650	
110 Benzyl chloride	126	11.004	11.004	0.000	99	2934	1.00	0.7452	
114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	97	14589	1.00	0.9380	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	91	19778	2.00	1.77	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	17322	2.00	1.71	

Reagents:

vmra9w_00359	Amount Added:	0.80	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

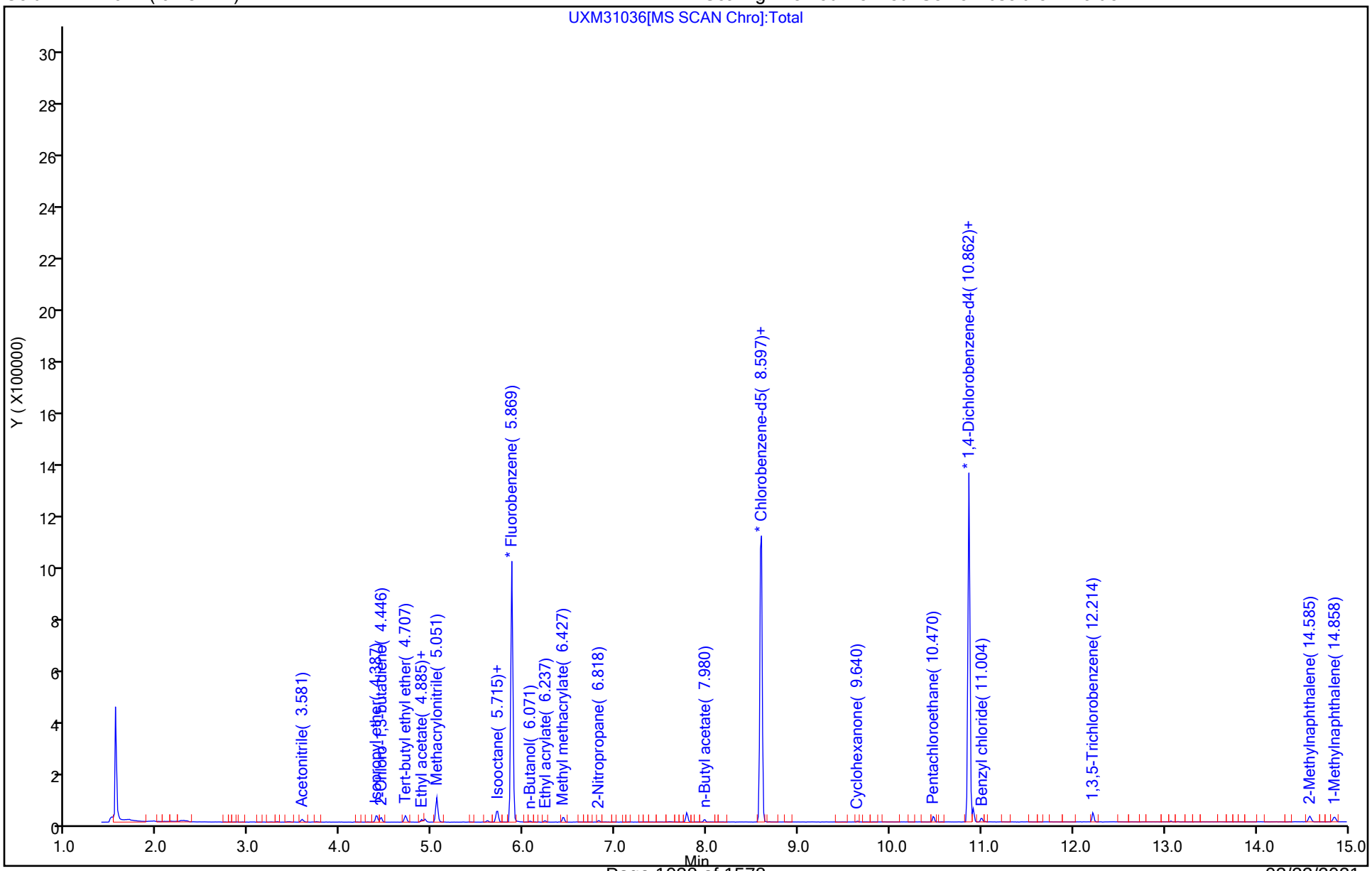
Report Date: 09-Sep-2020 08:31:42 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31036.D

Injection Date:	08-Sep-2020 18:09:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L2			Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D
Lims ID: stdA9 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Sep-2020 18:33:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-024
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:44 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:27:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	841069	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	682101	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	374881	20.0	20.0	
25 Acetonitrile	41	3.580	3.581	-0.001	96	5457	5.00	5.38	
36 Isopropyl ether	87	4.387	4.399	-0.012	87	3133	0.5000	0.4185	
37 2-Chloro-1,3-butadiene	53	4.446	4.446	0.000	88	5057	0.5000	0.4137	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	94	9044	0.5000	0.4118	
43 Ethyl acetate	43	4.885	4.885	0.000	96	4509	1.00	0.7682	
42 Propionitrile	54	4.920	4.921	-0.001	93	4727	5.00	4.14	
44 Methacrylonitrile	41	5.051	5.051	0.000	85	18208	5.00	4.29	
163 Isooctane	57	5.703	5.703	0.000	85	8598	0.5000	0.3539	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	87	9481	0.5000	0.4379	
57 n-Butanol	56		6.059				ND	ND	
59 Ethyl acrylate	55	6.237	6.225	0.012	91	2978	0.5000	0.3756	
62 Methyl methacrylate	41	6.426	6.427	-0.001	88	4174	1.00	0.8004	
66 2-Nitropropane	41	6.818	6.818	0.000	39	1238	1.00	0.7429	
77 n-Butyl acetate	43	7.968	7.968	0.000	91	3712	0.5000	0.4463	
81 1-Chlorohexane	91	8.585	8.585	0.000	64	6381	0.5000	0.4493	
91 Cyclohexanone	55		9.640				ND	ND	
103 Pentachloroethane	167	10.482	10.482	0.000	85	3408	1.00	1.01	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	96	15560	0.5000	0.4236	
110 Benzyl chloride	126		11.004				ND	ND	
114 1,3,5-Trichlorobenzene	180	12.213	12.214	-0.001	94	6504	0.5000	0.4190	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	89	8273	1.00	0.7404	
162 1-Methylnaphthalene	142	14.846	14.858	-0.012	0	6971	1.00	0.6915	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

vmra9w_00359	Amount Added:	0.40	Units: uL
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL

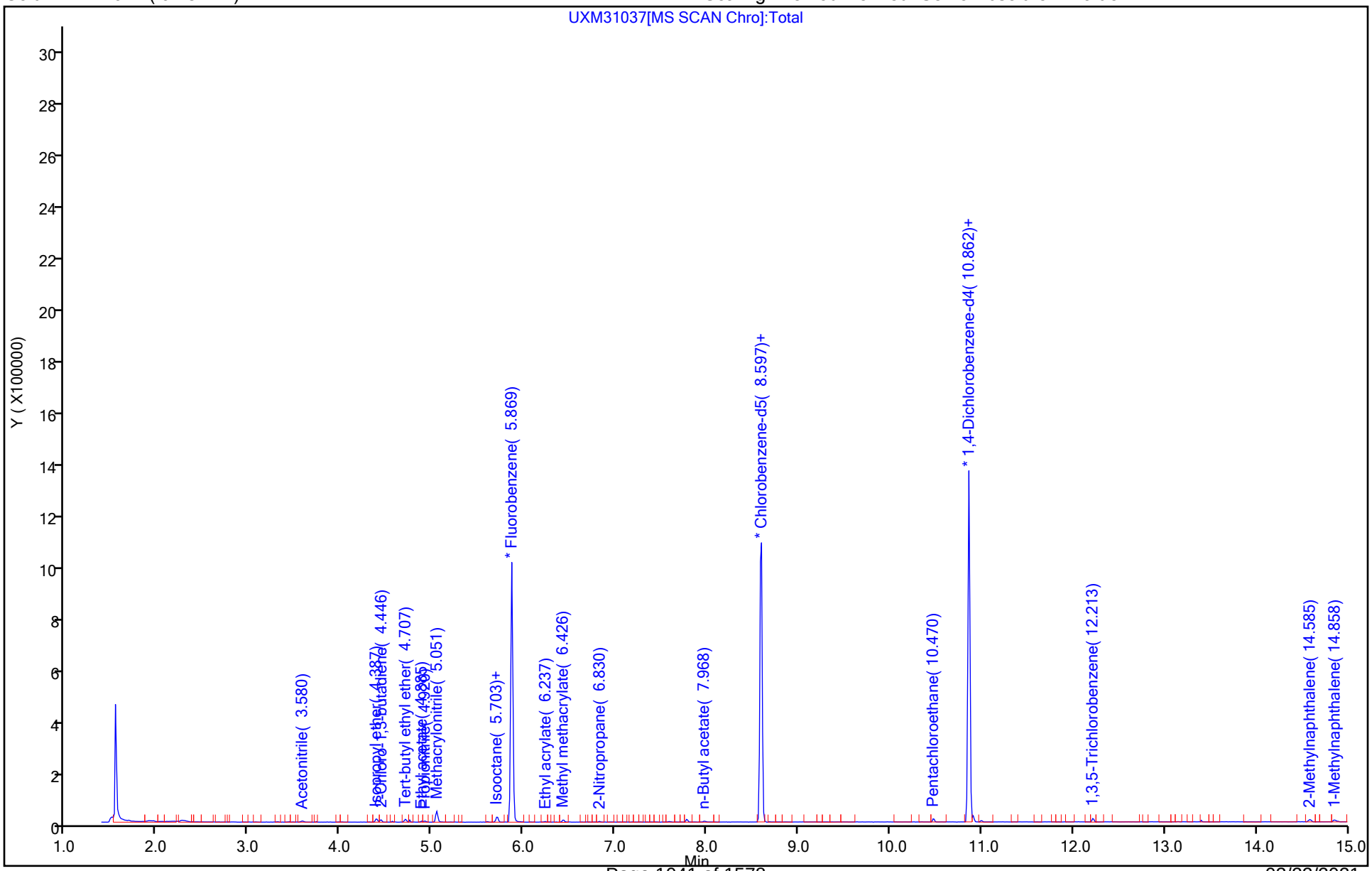
Report Date: 09-Sep-2020 08:31:44 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Injection Date:	08-Sep-2020 18:33:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L1			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

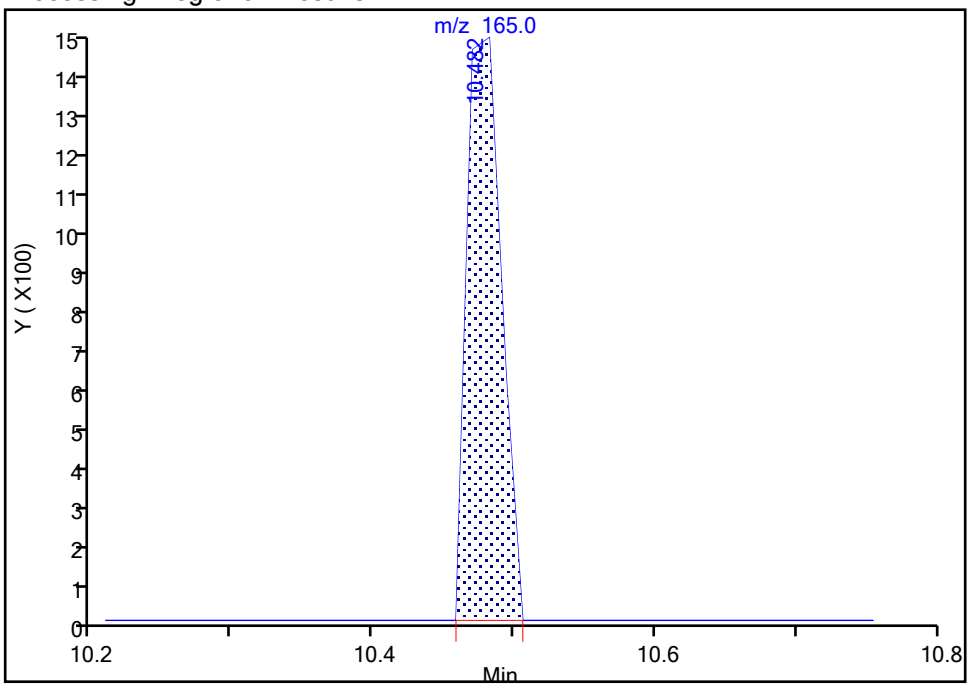
Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D
Injection Date: 08-Sep-2020 18:33:30 Instrument ID: A3UX16
Lims ID: stdA9 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

103 Pentachloroethane, CAS: 76-01-7

Signal: 2

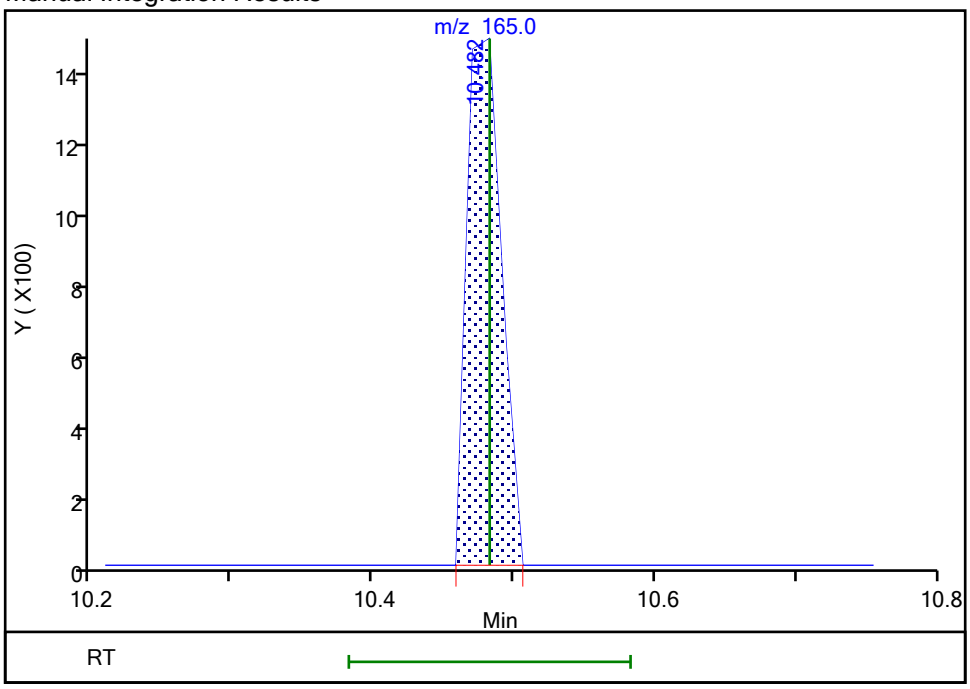
Processing Integration Results

RT: 10.48
Area: 2510
Amount: 2.701157
Amount Units: ug/l



Manual Integration Results

RT: 10.48
Area: 2510
Amount: 1.005249
Amount Units: ug/l



Reviewer: bosworthh, 09-Sep-2020 08:24:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

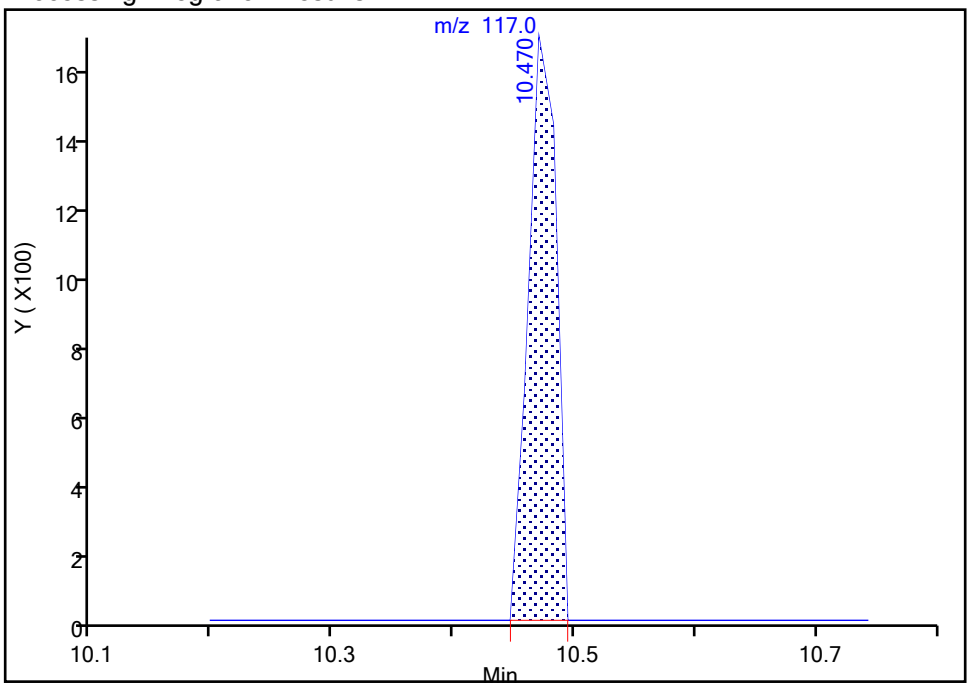
Data File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D				
Injection Date:	08-Sep-2020 18:33:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	24	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

103 Pentachloroethane, CAS: 76-01-7

Signal: 3

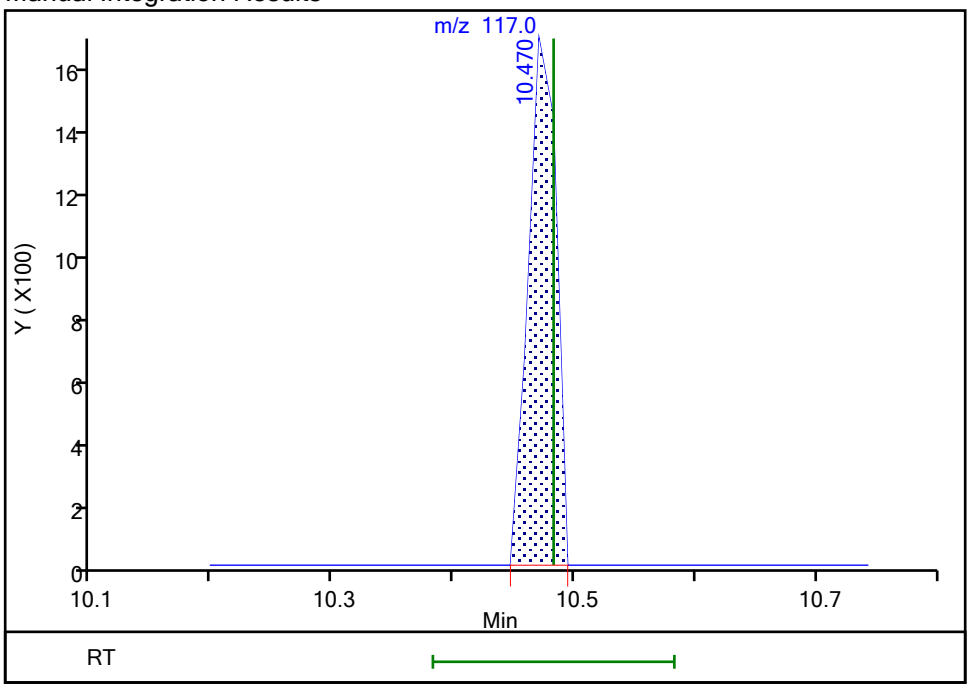
Processing Integration Results

RT: 10.47
Area: 2596
Amount: 2.701157
Amount Units: ug/l



Manual Integration Results

RT: 10.47
Area: 2596
Amount: 1.005249
Amount Units: ug/l



Reviewer: bosworthh, 09-Sep-2020 08:24:21

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

Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

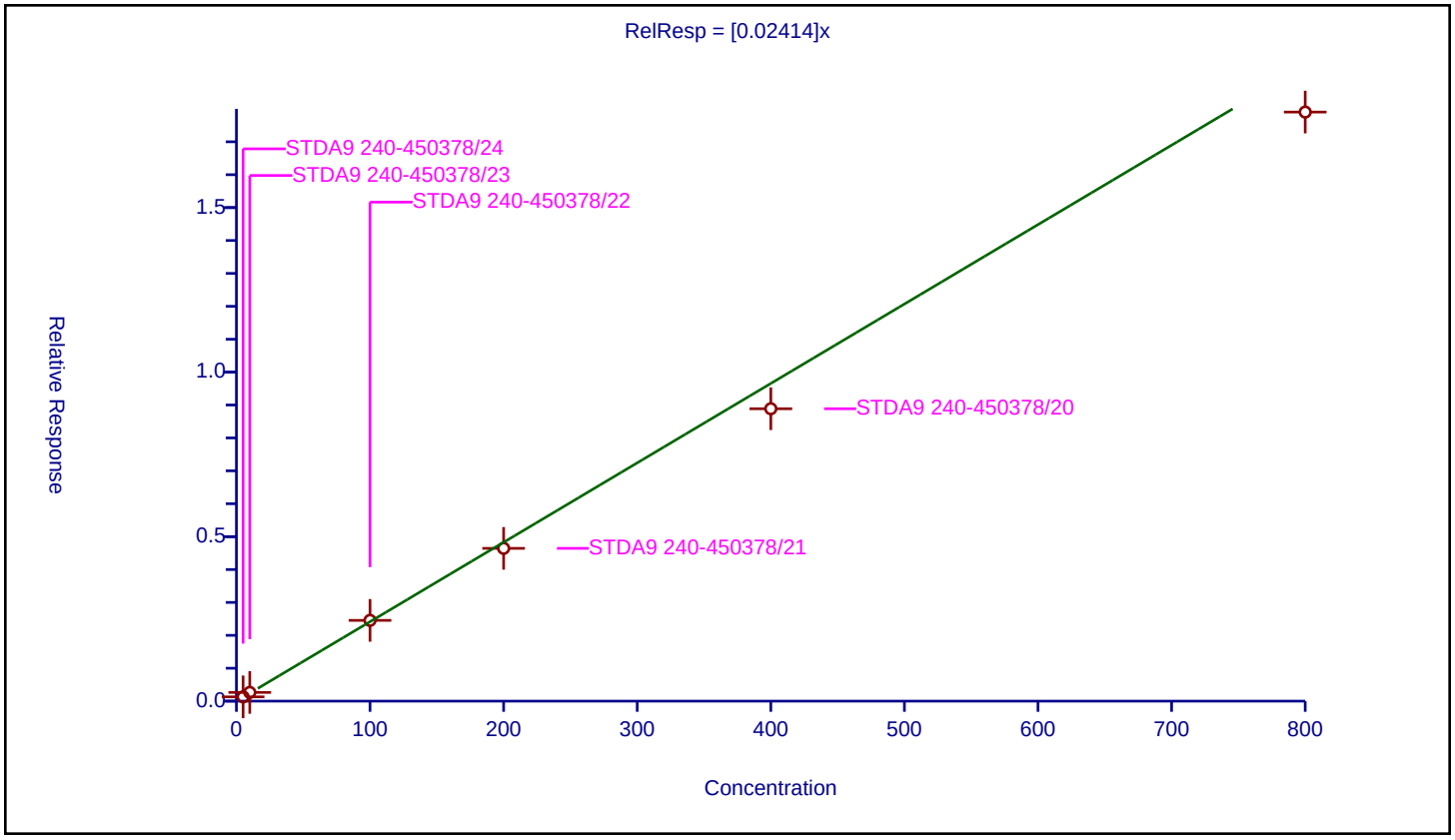
Curve Coefficients

Intercept:	0
Slope:	0.02414

Error Coefficients

Standard Error:	460000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	5.0	0.129763	20.0	841069.0	0.025953	Y
2	STDA9 240-450378/23	10.0	0.265128	20.0	852493.0	0.026513	Y
3	STDA9 240-450378/22	100.0	2.455054	20.0	885960.0	0.024551	Y
4	STDA9 240-450378/21	200.0	4.643823	20.0	928653.0	0.023219	Y
5	STDA9 240-450378/20	400.0	8.886777	20.0	996485.0	0.022217	Y
6	STDA9 240-450378/19	800.0	17.904013	20.0	1001695.0	0.02238	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

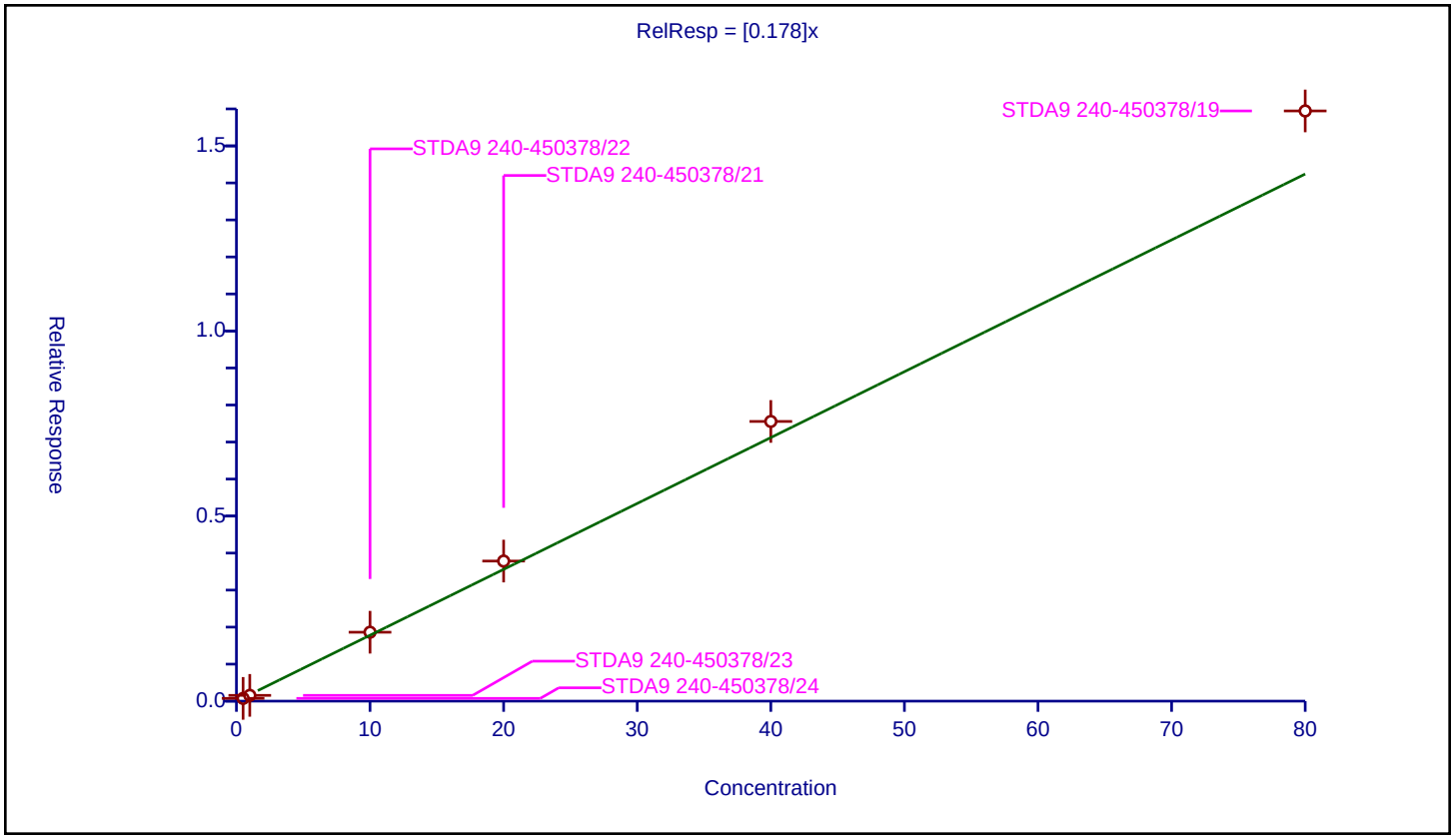
Curve Coefficients

Intercept:	0
Slope:	0.178

Error Coefficients

Standard Error:	404000
Relative Standard Error:	11.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.0745	20.0	841069.0	0.149001	Y
2	STDA9 240-450378/23	1.0	0.155426	20.0	852493.0	0.155426	Y
3	STDA9 240-450378/22	10.0	1.861867	20.0	885960.0	0.186187	Y
4	STDA9 240-450378/21	20.0	3.784428	20.0	928653.0	0.189221	Y
5	STDA9 240-450378/20	40.0	7.55612	20.0	996485.0	0.188903	Y
6	STDA9 240-450378/19	80.0	15.944494	20.0	1001695.0	0.199306	Y



Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

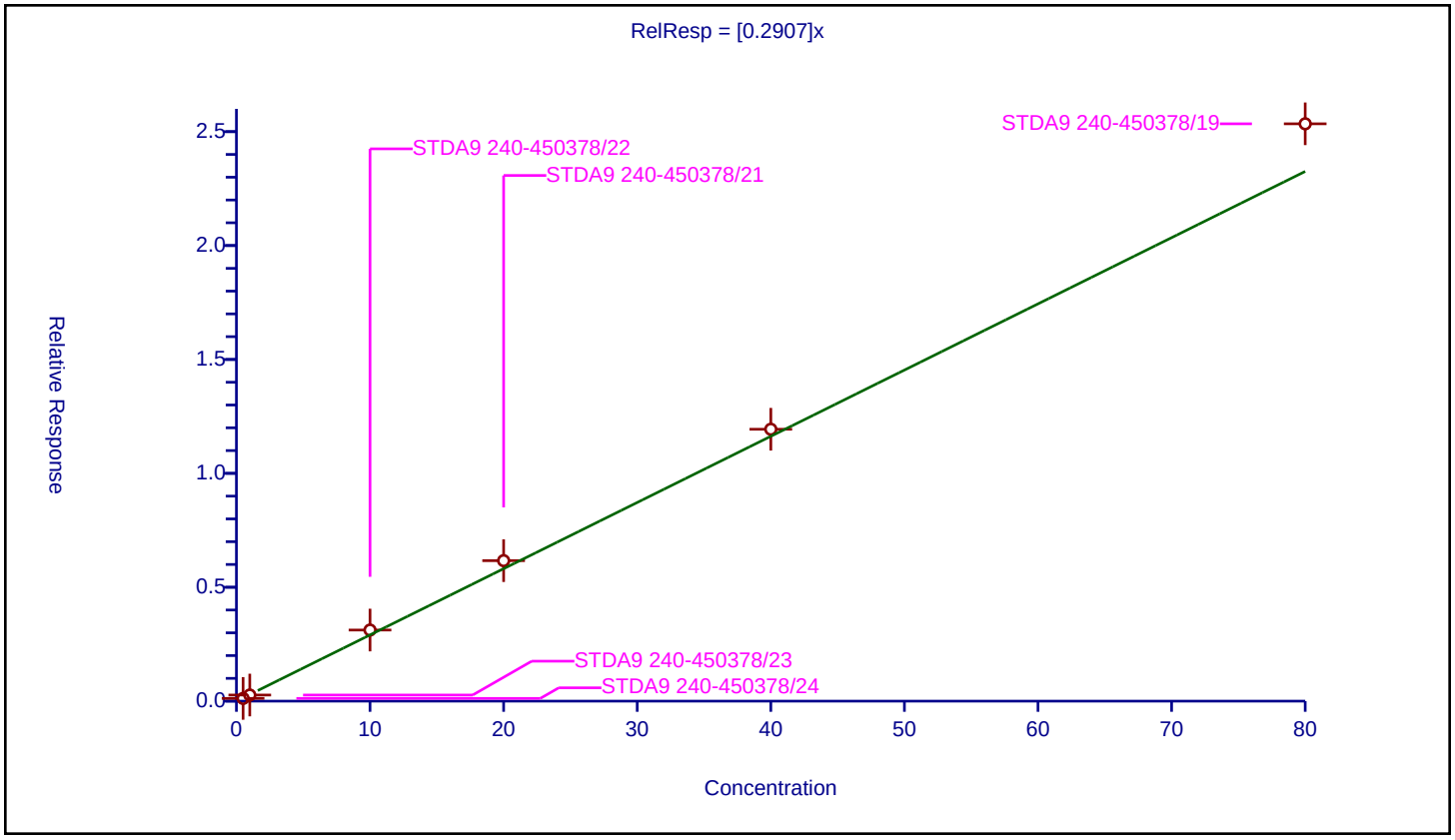
Curve Coefficients

Intercept:	0
Slope:	0.2907

Error Coefficients

Standard Error:	643000
Relative Standard Error:	10.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.120252	20.0	841069.0	0.240503	Y
2	STDA9 240-450378/23	1.0	0.26792	20.0	852493.0	0.26792	Y
3	STDA9 240-450378/22	10.0	3.120999	20.0	885960.0	0.3121	Y
4	STDA9 240-450378/21	20.0	6.167169	20.0	928653.0	0.308358	Y
5	STDA9 240-450378/20	40.0	11.936256	20.0	996485.0	0.298406	Y
6	STDA9 240-450378/19	80.0	25.345479	20.0	1001695.0	0.316818	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

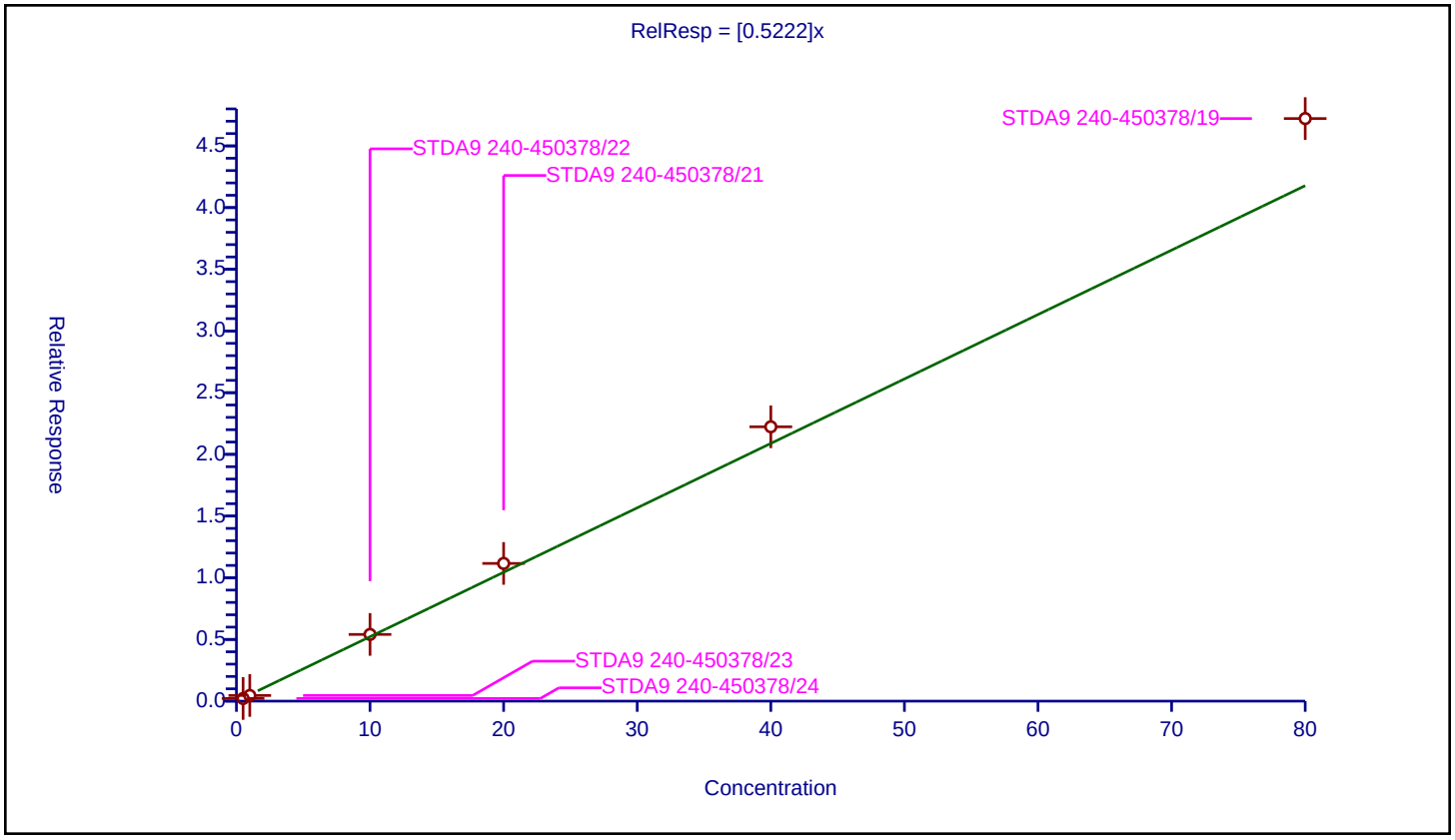
Curve Coefficients

Intercept:	0
Slope:	0.5222

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	12.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.21506	20.0	841069.0	0.430119	Y
2	STDA9 240-450378/23	1.0	0.458256	20.0	852493.0	0.458256	Y
3	STDA9 240-450378/22	10.0	5.4067	20.0	885960.0	0.54067	Y
4	STDA9 240-450378/21	20.0	11.161586	20.0	928653.0	0.558079	Y
5	STDA9 240-450378/20	40.0	22.235197	20.0	996485.0	0.55588	Y
6	STDA9 240-450378/19	80.0	47.216268	20.0	1001695.0	0.590203	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

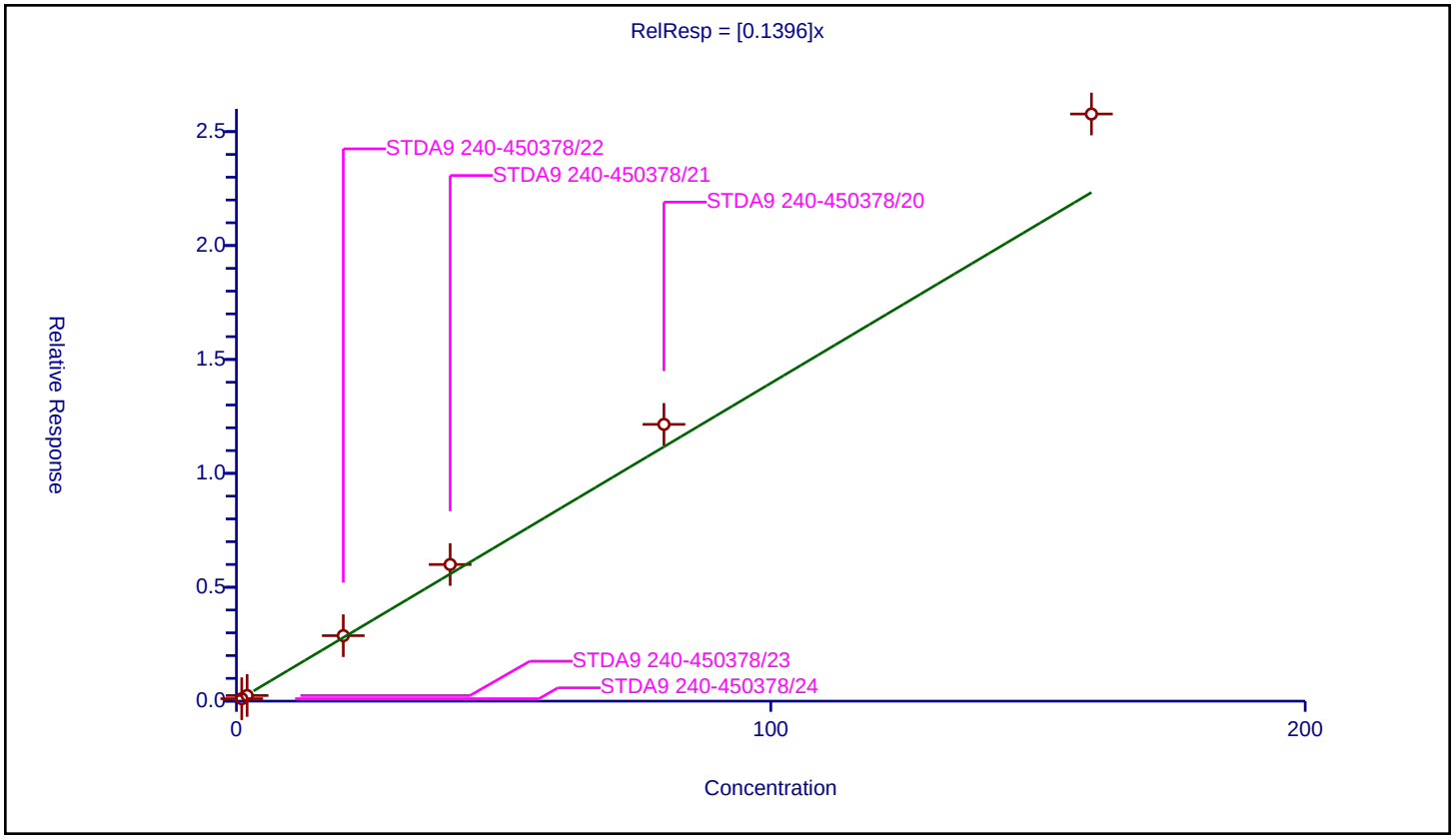
Curve Coefficients

Intercept:	0
Slope:	0.1396

Error Coefficients

Standard Error:	652000
Relative Standard Error:	14.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	1.0	0.107221	20.0	841069.0	0.107221	Y
2	STDA9 240-450378/23	2.0	0.247181	20.0	852493.0	0.12359	Y
3	STDA9 240-450378/22	20.0	2.87469	20.0	885960.0	0.143734	Y
4	STDA9 240-450378/21	40.0	5.998731	20.0	928653.0	0.149968	Y
5	STDA9 240-450378/20	80.0	12.150509	20.0	996485.0	0.151881	Y
6	STDA9 240-450378/19	160.0	25.775031	20.0	1001695.0	0.161094	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

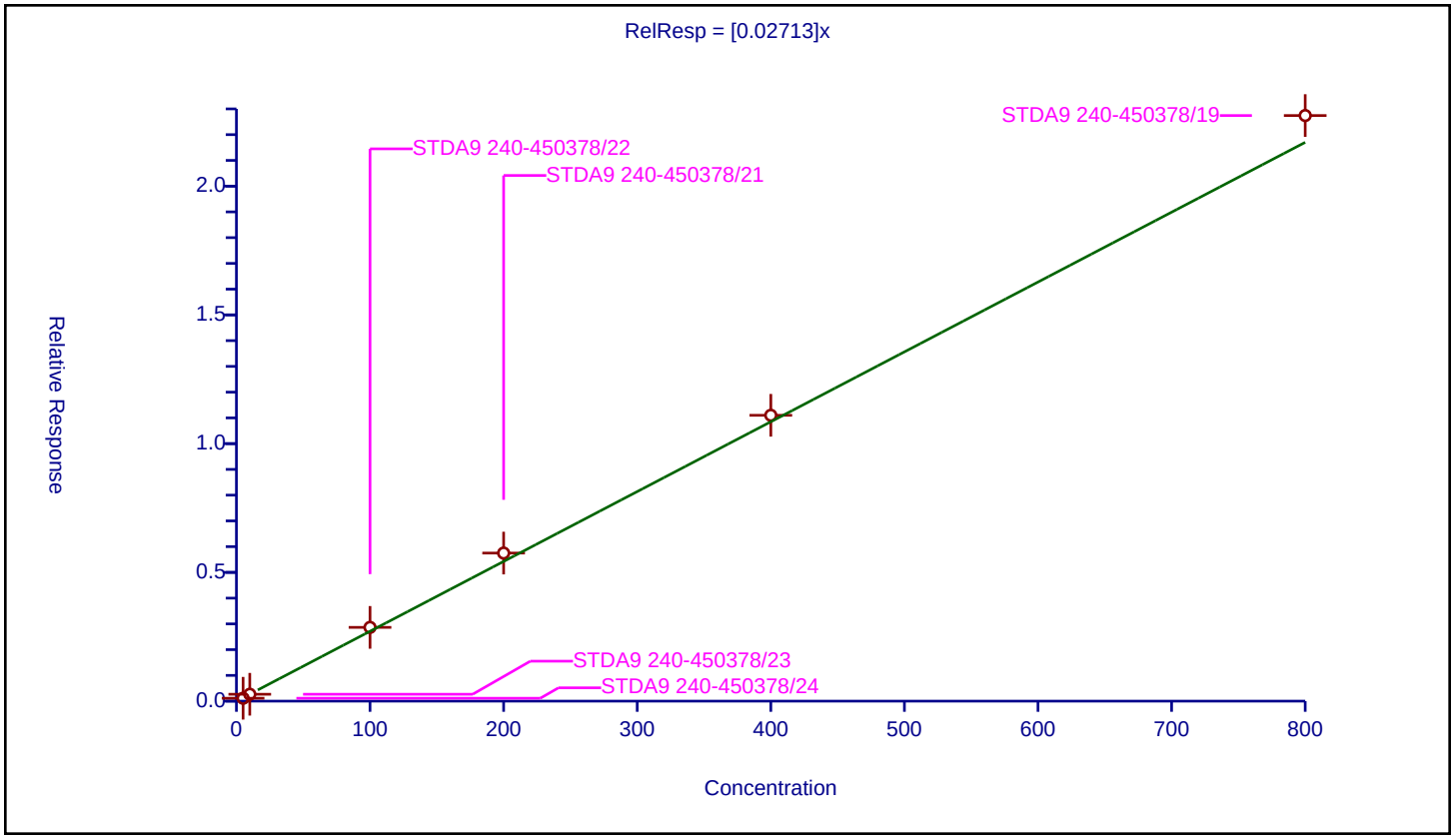
Curve Coefficients

Intercept:	0
Slope:	0.02713

Error Coefficients

Standard Error:	582000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	5.0	0.112405	20.0	841069.0	0.022481	Y
2	STDA9 240-450378/23	10.0	0.267005	20.0	852493.0	0.026701	Y
3	STDA9 240-450378/22	100.0	2.864418	20.0	885960.0	0.028644	Y
4	STDA9 240-450378/21	200.0	5.750609	20.0	928653.0	0.028753	Y
5	STDA9 240-450378/20	400.0	11.10094	20.0	996485.0	0.027752	Y
6	STDA9 240-450378/19	800.0	22.741513	20.0	1001695.0	0.028427	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

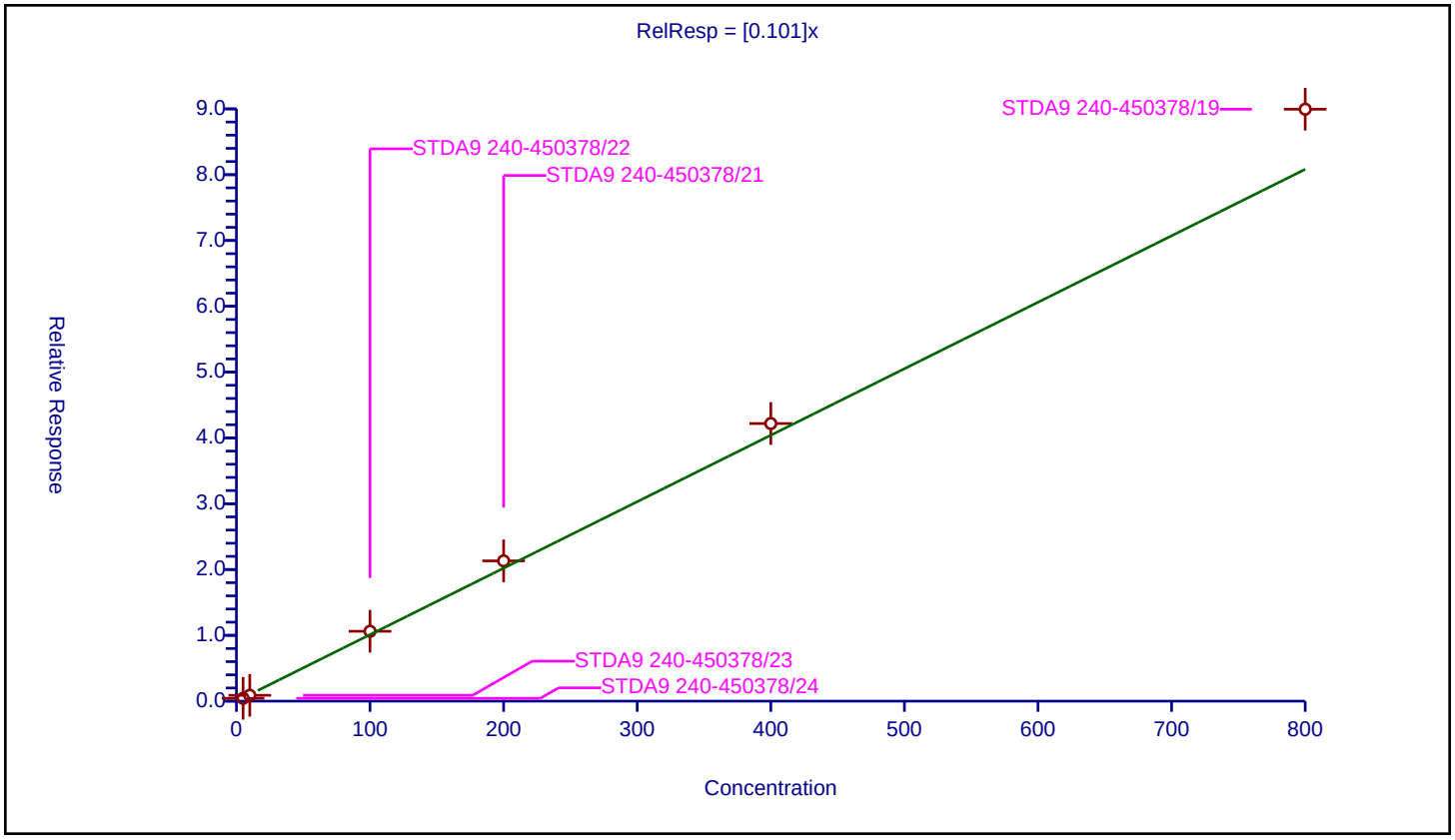
Curve Coefficients

Intercept:	0
Slope:	0.101

Error Coefficients

Standard Error:	2280000
Relative Standard Error:	10.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	5.0	0.432973	20.0	841069.0	0.086595	Y
2	STDA9 240-450378/23	10.0	0.888922	20.0	852493.0	0.088892	Y
3	STDA9 240-450378/22	100.0	10.618403	20.0	885960.0	0.106184	Y
4	STDA9 240-450378/21	200.0	21.315044	20.0	928653.0	0.106575	Y
5	STDA9 240-450378/20	400.0	42.186425	20.0	996485.0	0.105466	Y
6	STDA9 240-450378/19	800.0	89.946061	20.0	1001695.0	0.112433	Y



Calibration / Isooctane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

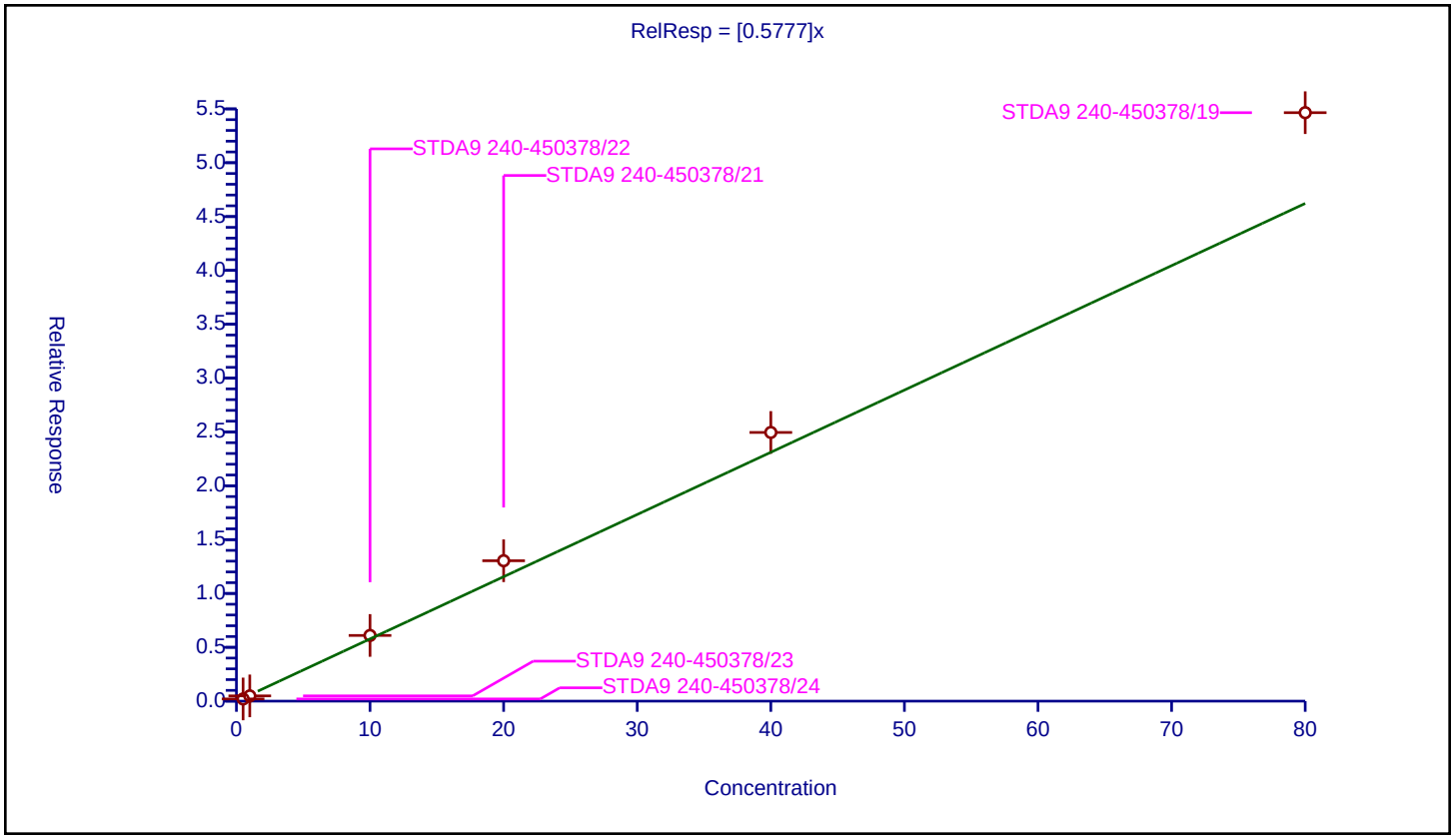
Curve Coefficients

Intercept:	0
Slope:	0.5777

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	18.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.204454	20.0	841069.0	0.408908	Y
2	STDA9 240-450378/23	1.0	0.488684	20.0	852493.0	0.488684	Y
3	STDA9 240-450378/22	10.0	6.100659	20.0	885960.0	0.610066	Y
4	STDA9 240-450378/21	20.0	13.037658	20.0	928653.0	0.651883	Y
5	STDA9 240-450378/20	40.0	24.953492	20.0	996485.0	0.623837	Y
6	STDA9 240-450378/19	80.0	54.64925	20.0	1001695.0	0.683116	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

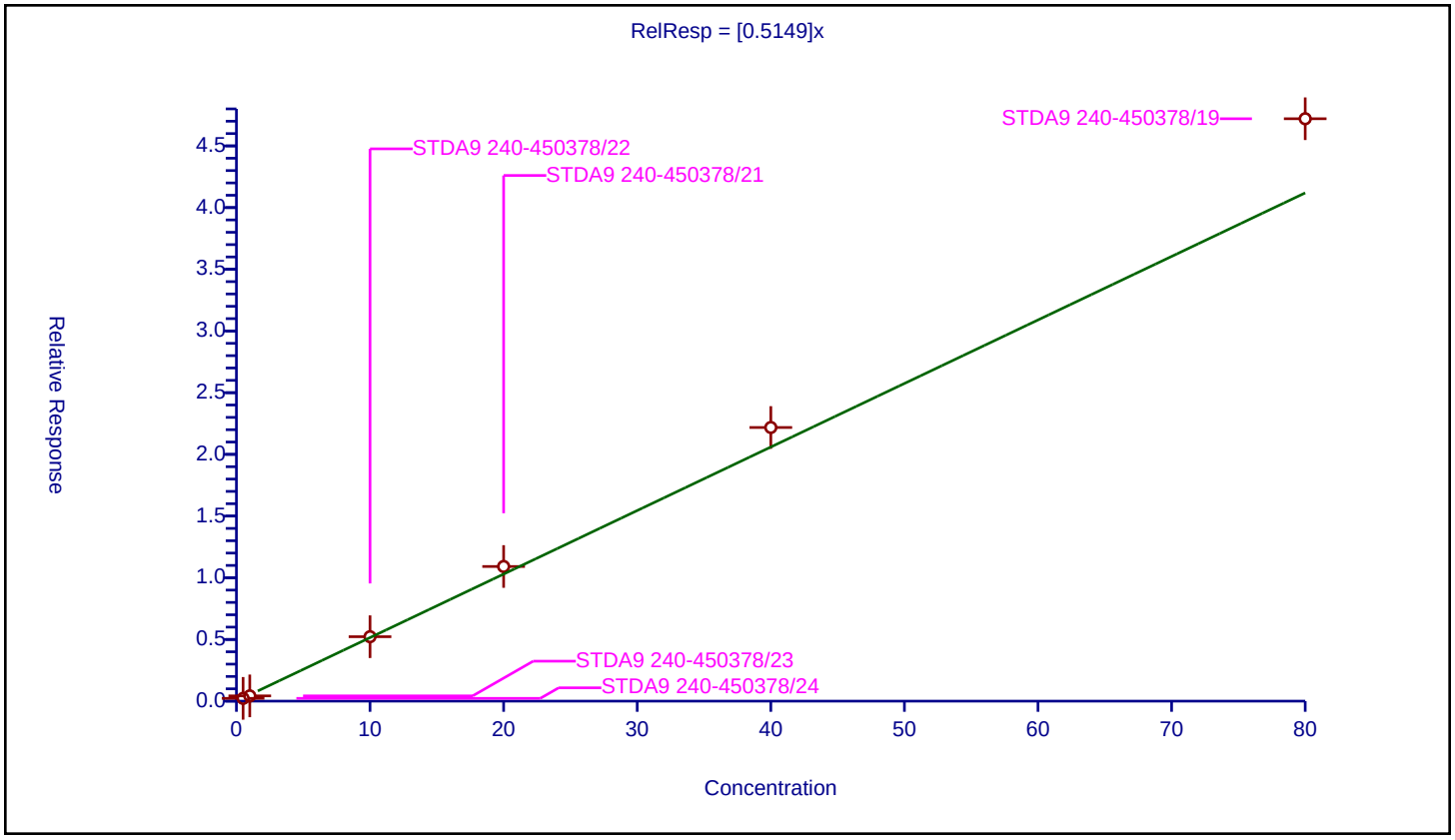
Curve Coefficients

Intercept:	0
Slope:	0.5149

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	12.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.225451	20.0	841069.0	0.450902	Y
2	STDA9 240-450378/23	1.0	0.426162	20.0	852493.0	0.426162	Y
3	STDA9 240-450378/22	10.0	5.221996	20.0	885960.0	0.5222	Y
4	STDA9 240-450378/21	20.0	10.91314	20.0	928653.0	0.545657	Y
5	STDA9 240-450378/20	40.0	22.177634	20.0	996485.0	0.554441	Y
6	STDA9 240-450378/19	80.0	47.200675	20.0	1001695.0	0.590008	Y



Calibration / n-Butanol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

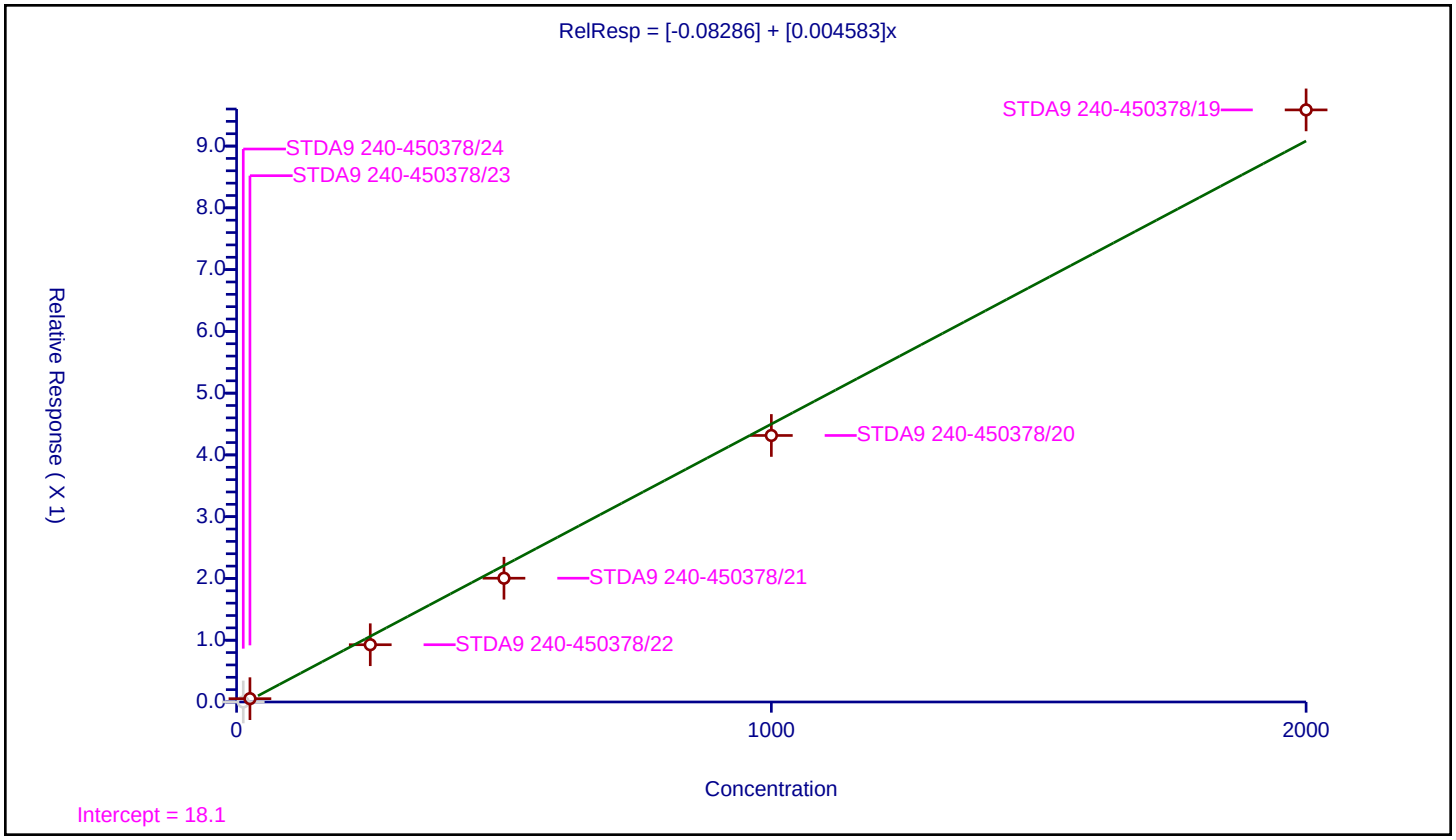
Curve Coefficients

Intercept:	-0.08286
Slope:	0.004583

Error Coefficients

Standard Error:	309000
Relative Standard Error:	14.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	12.5	0.0	20.0	841069.0	0.0	N
2	STDA9 240-450378/23	25.0	0.053842	20.0	852493.0	0.002154	Y
3	STDA9 240-450378/22	250.0	0.927175	20.0	885960.0	0.003709	Y
4	STDA9 240-450378/21	500.0	2.003655	20.0	928653.0	0.004007	Y
5	STDA9 240-450378/20	1000.0	4.314827	20.0	996485.0	0.004315	Y
6	STDA9 240-450378/19	2000.0	9.585832	20.0	1001695.0	0.004793	Y



Calibration / Ethyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

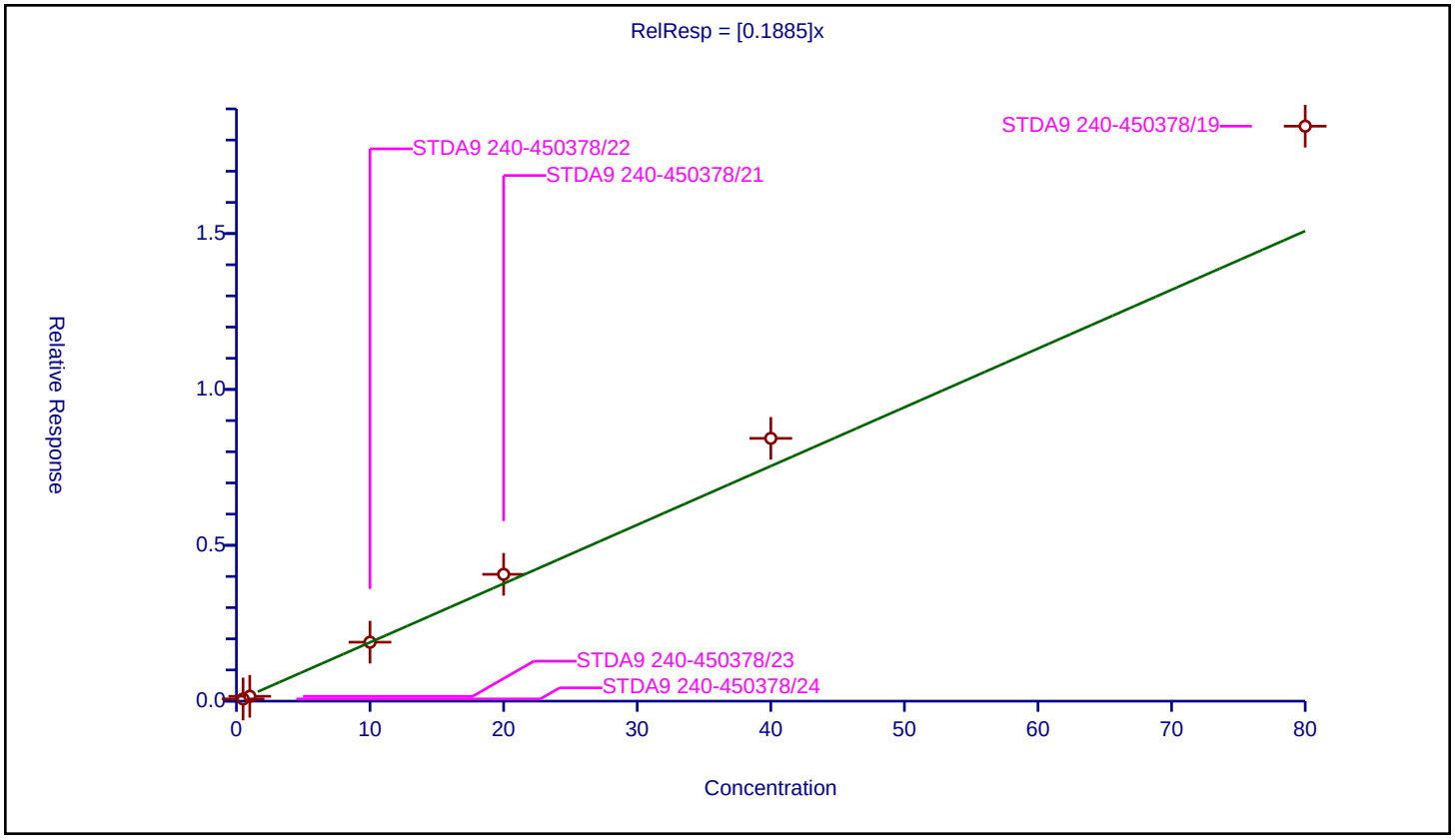
Curve Coefficients

Intercept:	0
Slope:	0.1885

Error Coefficients

Standard Error:	463000
Relative Standard Error:	18.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.070815	20.0	841069.0	0.141629	Y
2	STDA9 240-450378/23	1.0	0.155685	20.0	852493.0	0.155685	Y
3	STDA9 240-450378/22	10.0	1.891191	20.0	885960.0	0.189119	Y
4	STDA9 240-450378/21	20.0	4.068753	20.0	928653.0	0.203438	Y
5	STDA9 240-450378/20	40.0	8.430032	20.0	996485.0	0.210751	Y
6	STDA9 240-450378/19	80.0	18.444616	20.0	1001695.0	0.230558	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

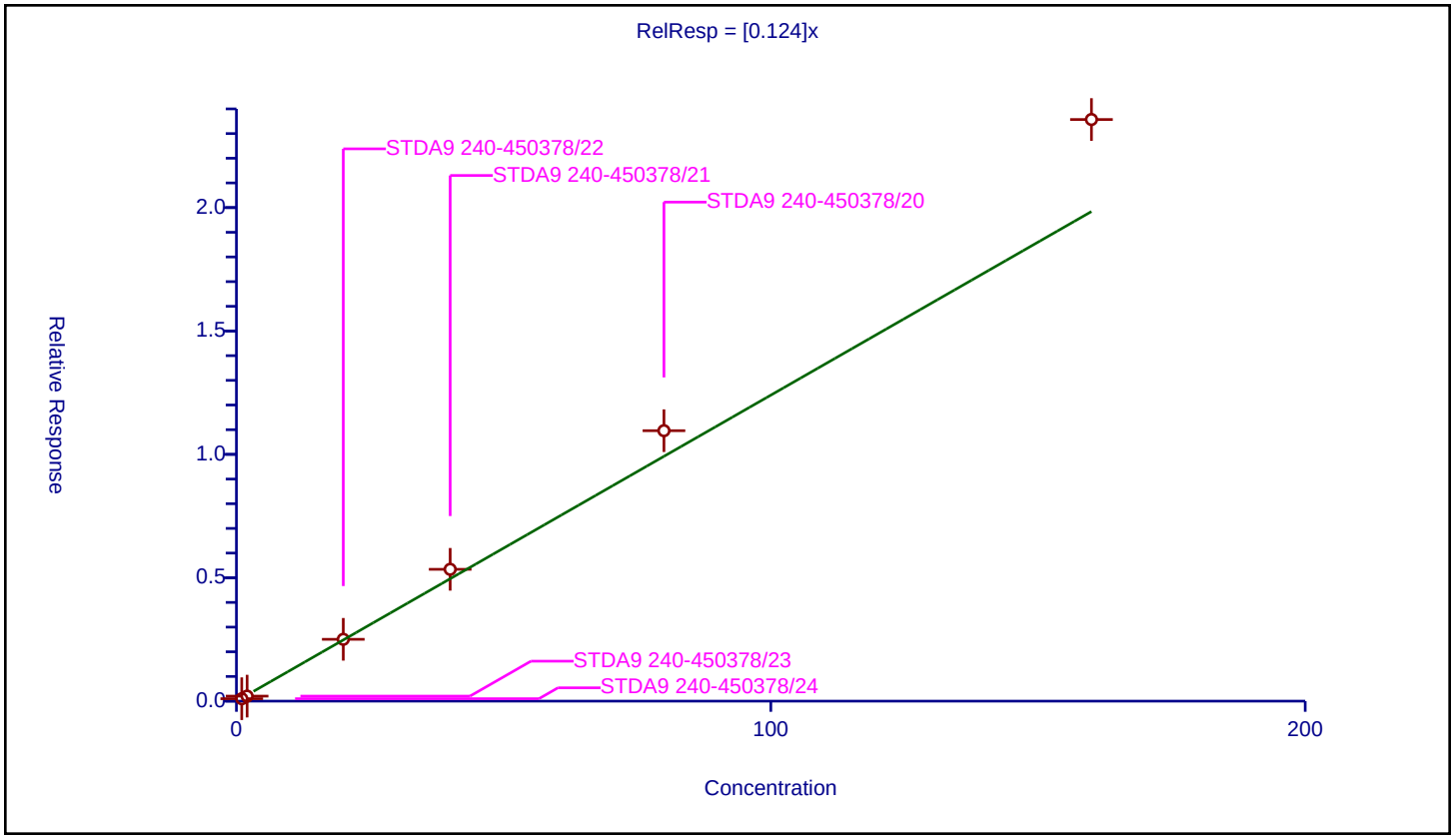
Curve Coefficients

Intercept:	0
Slope:	0.124

Error Coefficients

Standard Error:	594000
Relative Standard Error:	15.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	1.0	0.099255	20.0	841069.0	0.099255	Y
2	STDA9 240-450378/23	2.0	0.203239	20.0	852493.0	0.10162	Y
3	STDA9 240-450378/22	20.0	2.505192	20.0	885960.0	0.12526	Y
4	STDA9 240-450378/21	40.0	5.342125	20.0	928653.0	0.133553	Y
5	STDA9 240-450378/20	80.0	10.959723	20.0	996485.0	0.136997	Y
6	STDA9 240-450378/19	160.0	23.569669	20.0	1001695.0	0.14731	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

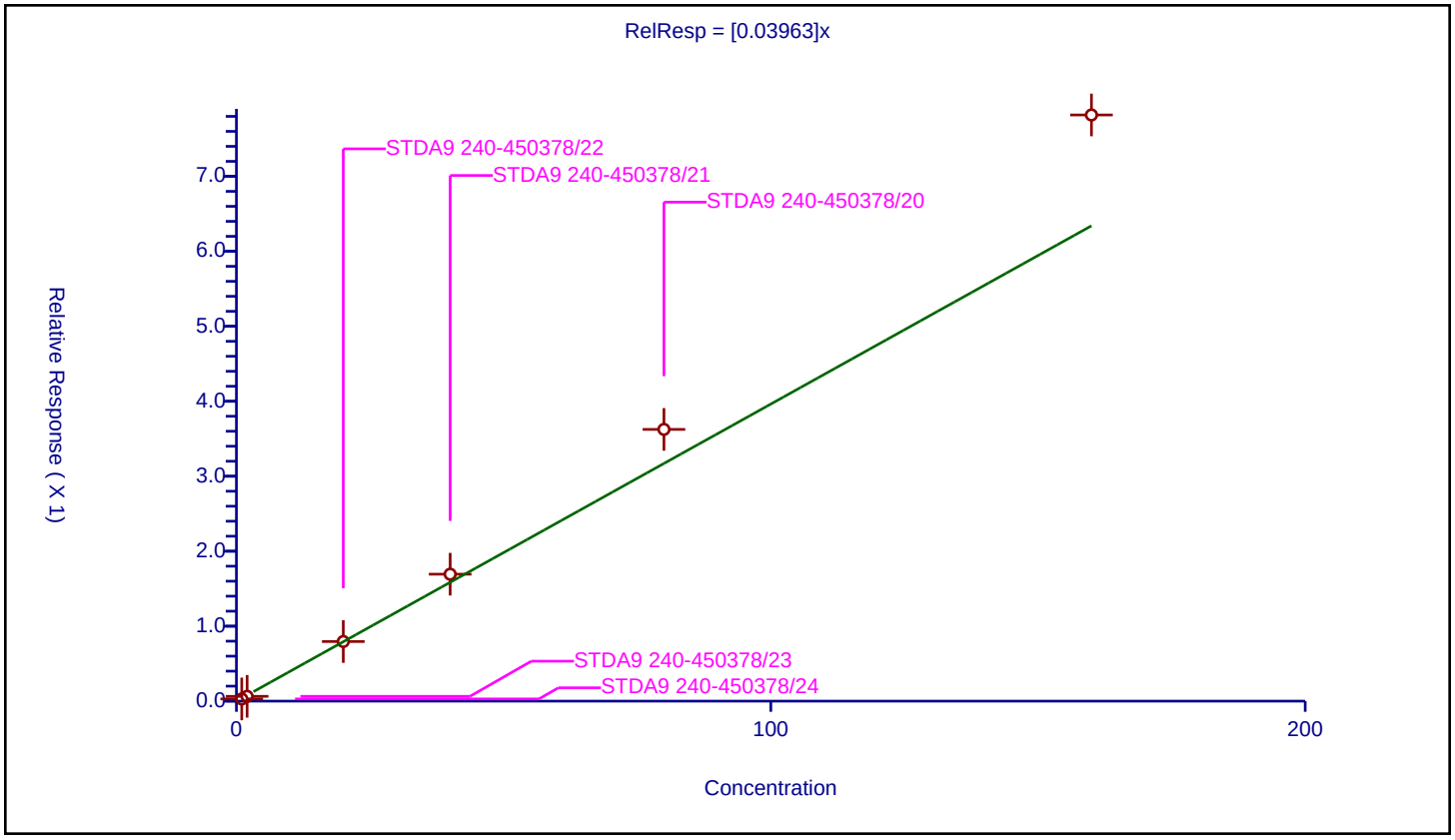
Curve Coefficients

Intercept:	0
Slope:	0.03963

Error Coefficients

Standard Error:	197000
Relative Standard Error:	19.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.963

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	1.0	0.029439	20.0	841069.0	0.029439	Y
2	STDA9 240-450378/23	2.0	0.064094	20.0	852493.0	0.032047	Y
3	STDA9 240-450378/22	20.0	0.795363	20.0	885960.0	0.039768	Y
4	STDA9 240-450378/21	40.0	1.693377	20.0	928653.0	0.042334	Y
5	STDA9 240-450378/20	80.0	3.6245	20.0	996485.0	0.045306	Y
6	STDA9 240-450378/19	160.0	7.818827	20.0	1001695.0	0.048868	Y



Calibration / n-Butyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

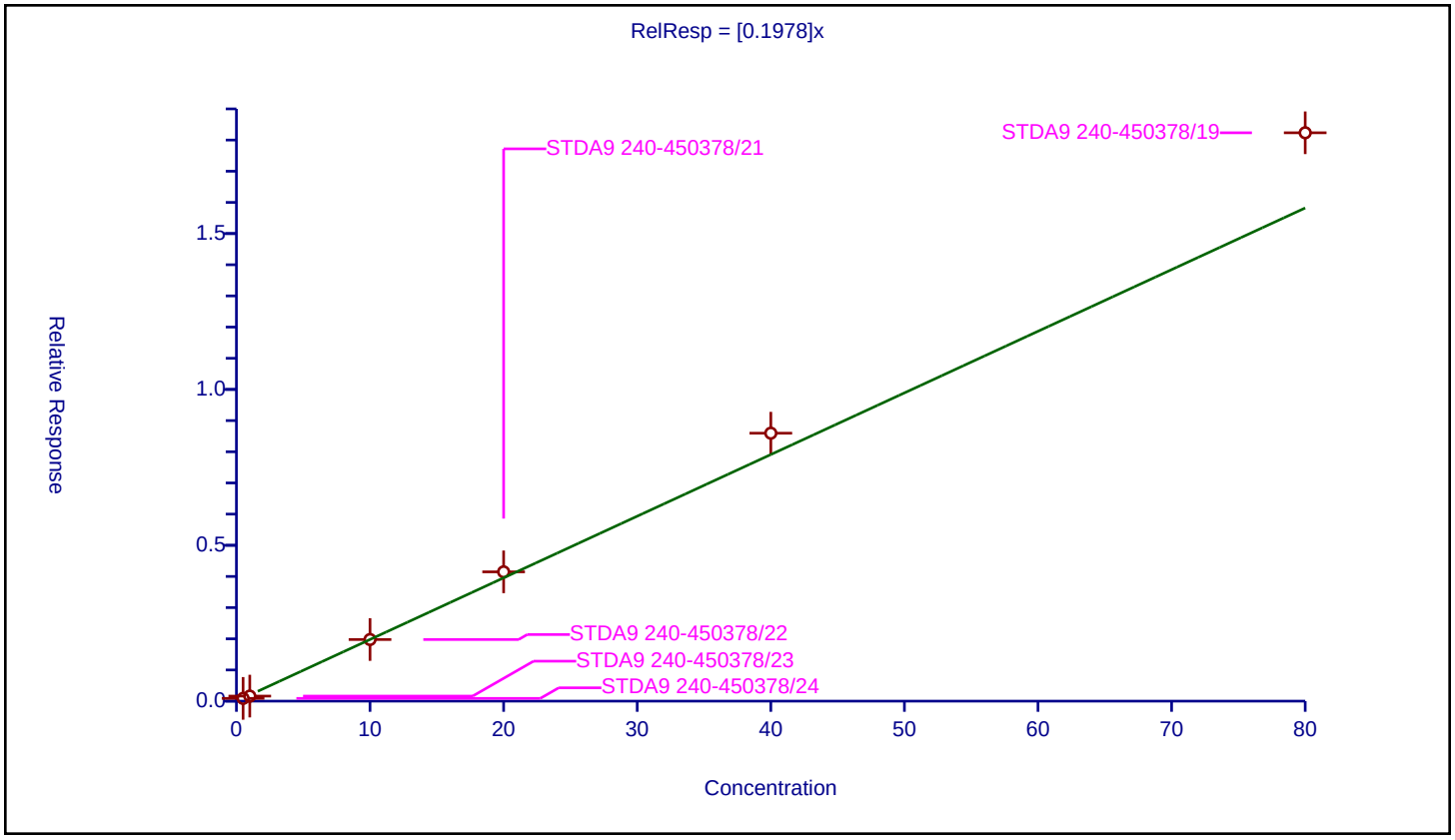
Curve Coefficients

Intercept:	0
Slope:	0.1978

Error Coefficients

Standard Error:	461000
Relative Standard Error:	12.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.088269	20.0	841069.0	0.176537	Y
2	STDA9 240-450378/23	1.0	0.162113	20.0	852493.0	0.162113	Y
3	STDA9 240-450378/22	10.0	1.977064	20.0	885960.0	0.197706	Y
4	STDA9 240-450378/21	20.0	4.148309	20.0	928653.0	0.207415	Y
5	STDA9 240-450378/20	40.0	8.596176	20.0	996485.0	0.214904	Y
6	STDA9 240-450378/19	80.0	18.233135	20.0	1001695.0	0.227914	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

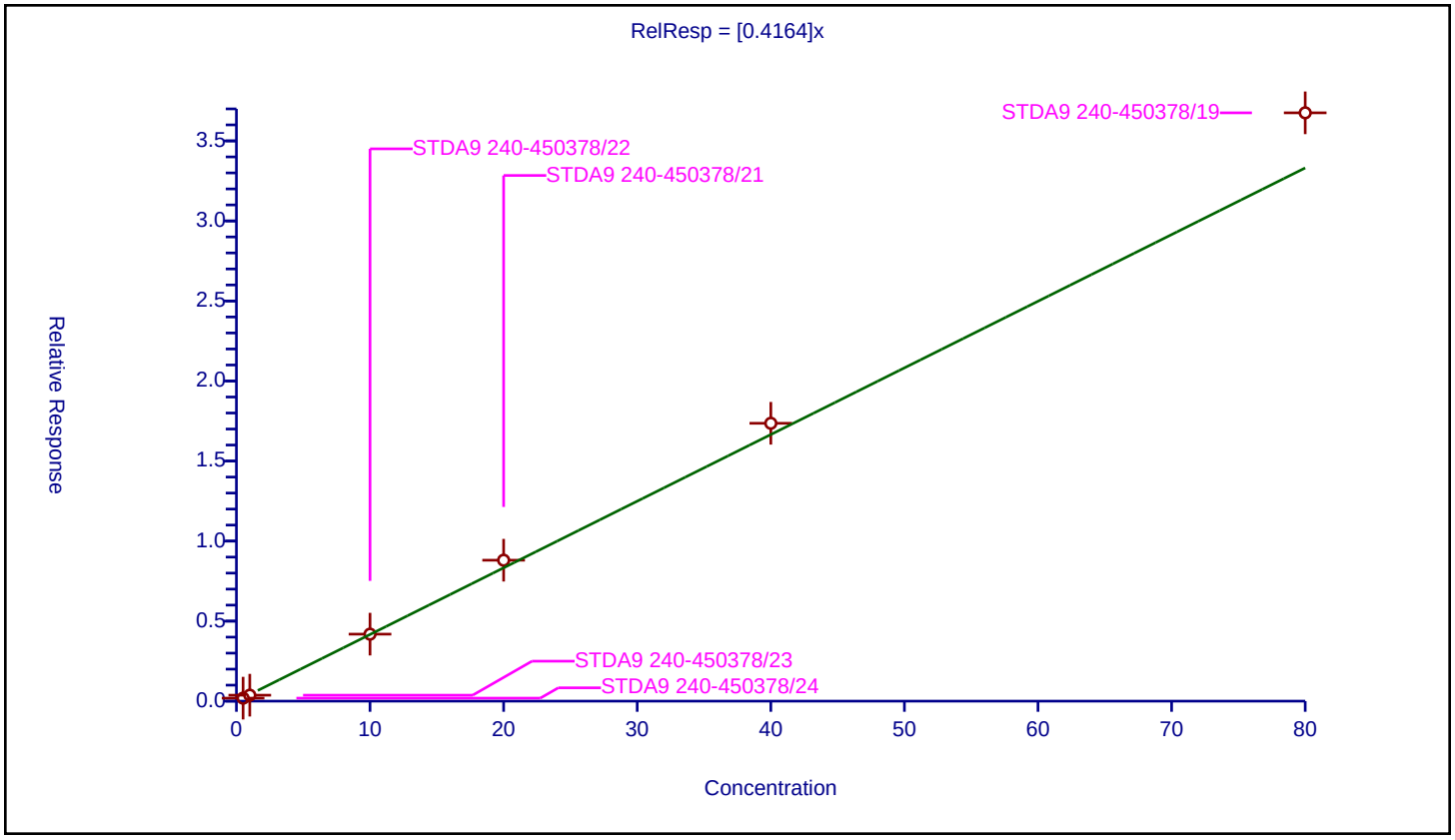
Curve Coefficients

Intercept:	0
Slope:	0.4164

Error Coefficients

Standard Error:	736000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.187098	20.0	682101.0	0.374197	Y
2	STDA9 240-450378/23	1.0	0.371873	20.0	694161.0	0.371873	Y
3	STDA9 240-450378/22	10.0	4.18613	20.0	721884.0	0.418613	Y
4	STDA9 240-450378/21	20.0	8.80516	20.0	745740.0	0.440258	Y
5	STDA9 240-450378/20	40.0	17.358577	20.0	782124.0	0.433964	Y
6	STDA9 240-450378/19	80.0	36.753457	20.0	791870.0	0.459418	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

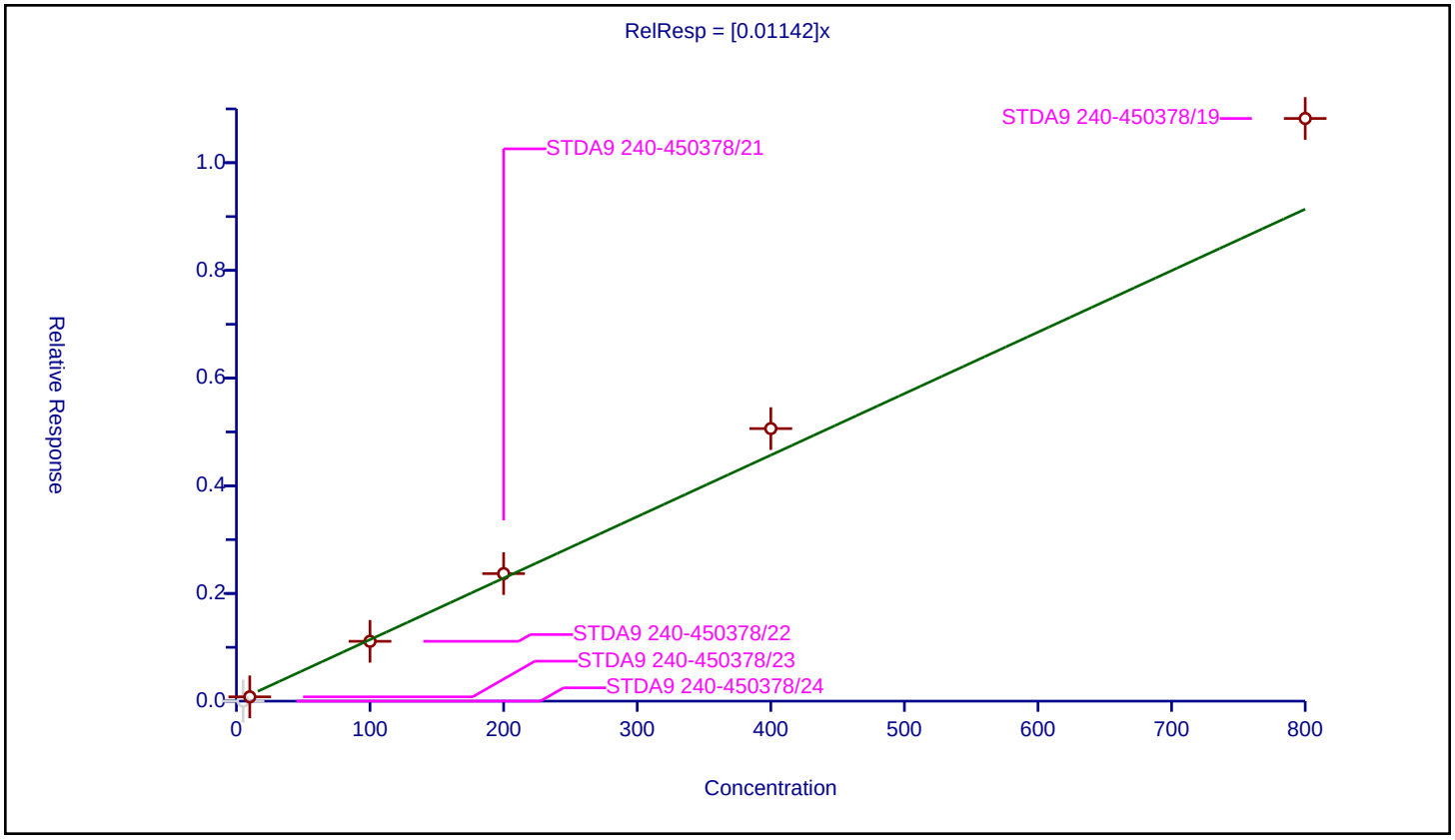
Curve Coefficients

Intercept:	0
Slope:	0.01142

Error Coefficients

Standard Error:	129000
Relative Standard Error:	18.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	5.0	0.0	20.0	374881.0	0.0	N
2	STDA9 240-450378/23	10.0	0.079749	20.0	375681.0	0.007975	Y
3	STDA9 240-450378/22	100.0	1.111317	20.0	384067.0	0.011113	Y
4	STDA9 240-450378/21	200.0	2.368671	20.0	396256.0	0.011843	Y
5	STDA9 240-450378/20	400.0	5.062189	20.0	417997.0	0.012655	Y
6	STDA9 240-450378/19	800.0	10.821754	20.0	423399.0	0.013527	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

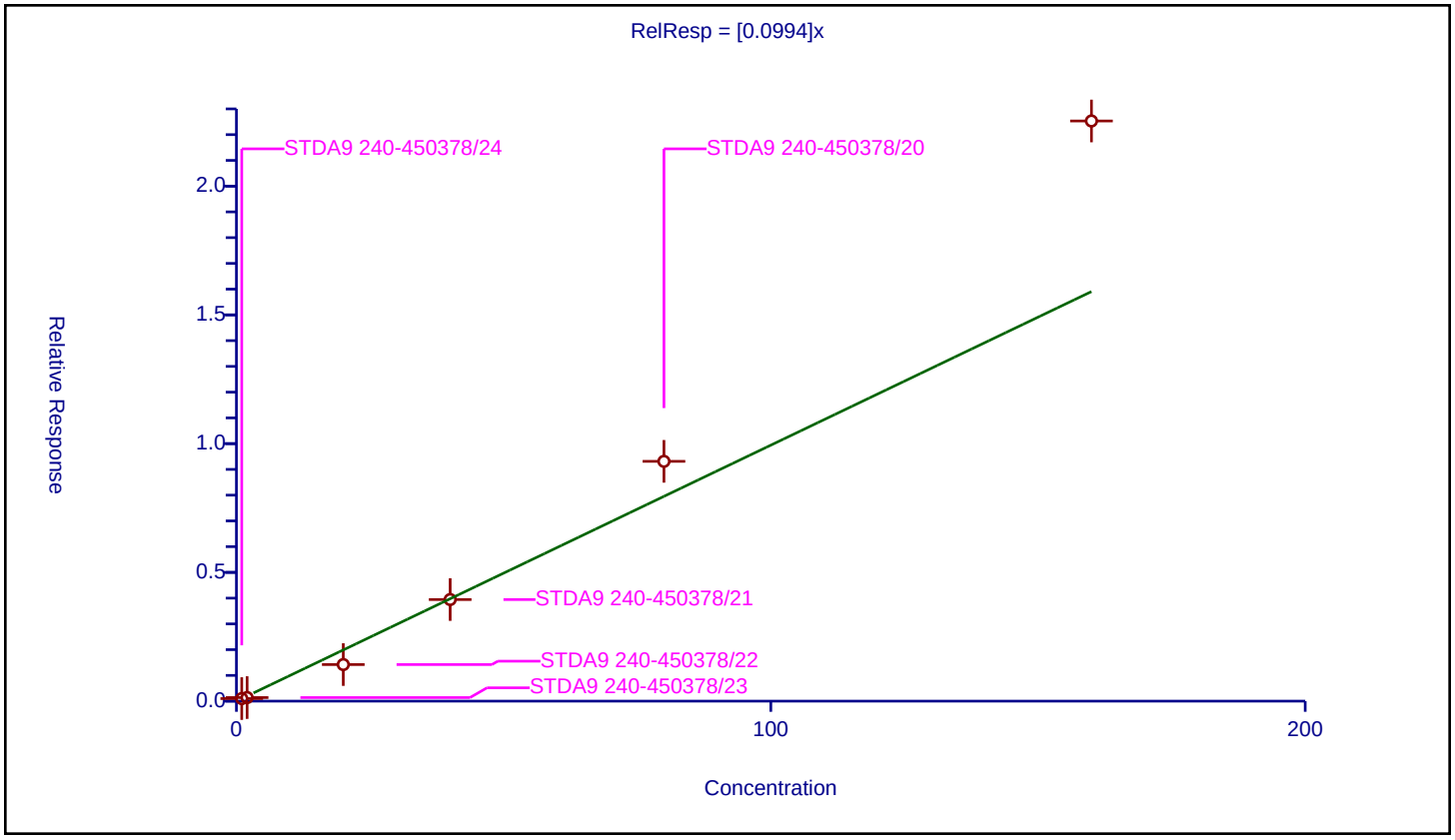
Curve Coefficients

Intercept:	0
Slope:	0.0994

Error Coefficients

Standard Error:	436000
Relative Standard Error:	27.4
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.921

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	1.0	0.099927	20.0	682101.0	0.099927	Y
2	STDA9 240-450378/23	2.0	0.139305	20.0	694161.0	0.069652	Y
3	STDA9 240-450378/22	20.0	1.420145	20.0	721884.0	0.071007	Y
4	STDA9 240-450378/21	40.0	3.945075	20.0	745740.0	0.098627	Y
5	STDA9 240-450378/20	80.0	9.312206	20.0	782124.0	0.116403	Y
6	STDA9 240-450378/19	160.0	22.530062	20.0	791870.0	0.140813	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

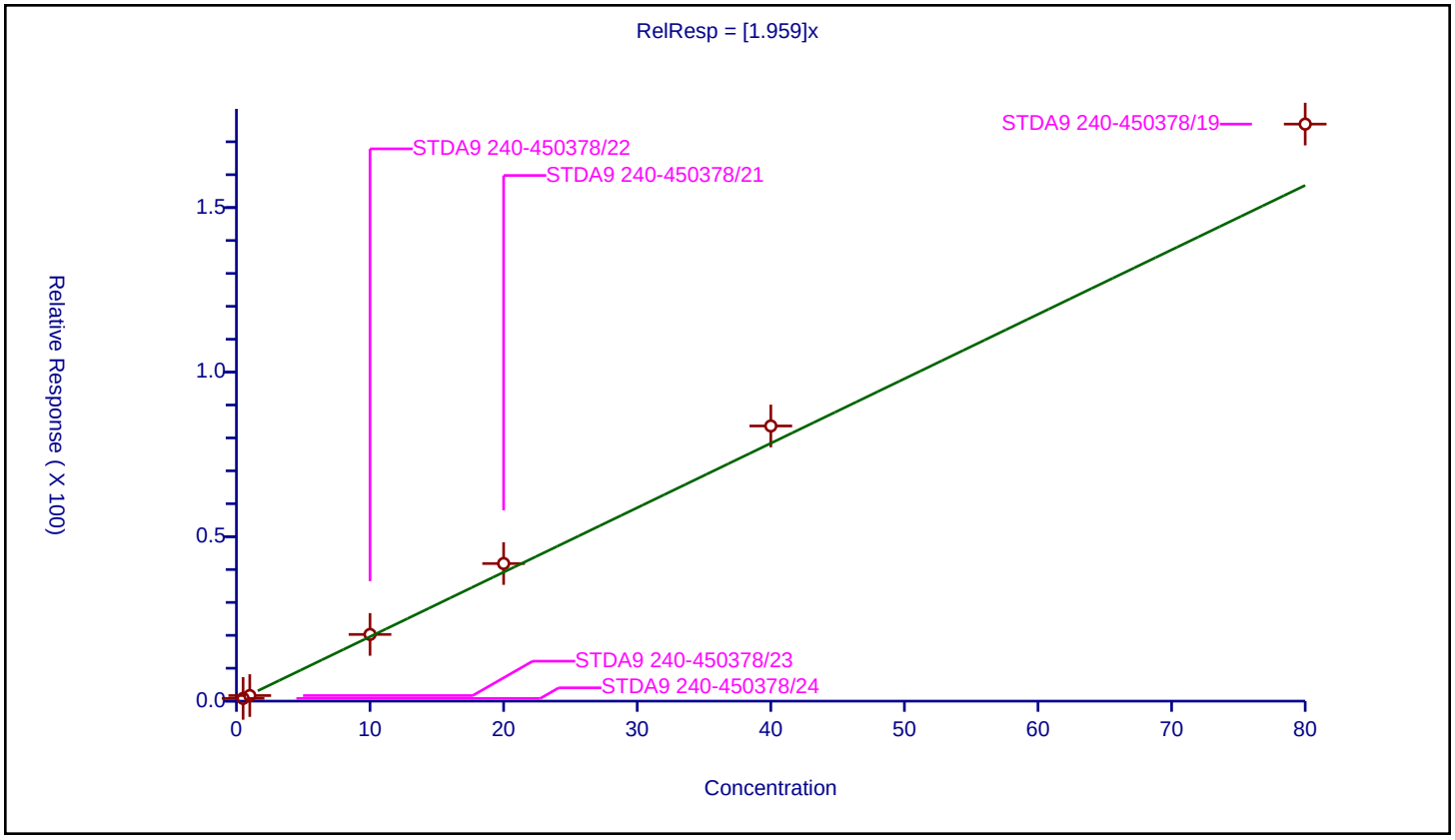
Curve Coefficients

Intercept:	0
Slope:	1.959

Error Coefficients

Standard Error:	1880000
Relative Standard Error:	11.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.83013	20.0	374881.0	1.66026	Y
2	STDA9 240-450378/23	1.0	1.694949	20.0	375681.0	1.694949	Y
3	STDA9 240-450378/22	10.0	20.277452	20.0	384067.0	2.027745	Y
4	STDA9 240-450378/21	20.0	41.818471	20.0	396256.0	2.090924	Y
5	STDA9 240-450378/20	40.0	83.635385	20.0	417997.0	2.090885	Y
6	STDA9 240-450378/19	80.0	175.375851	20.0	423399.0	2.192198	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

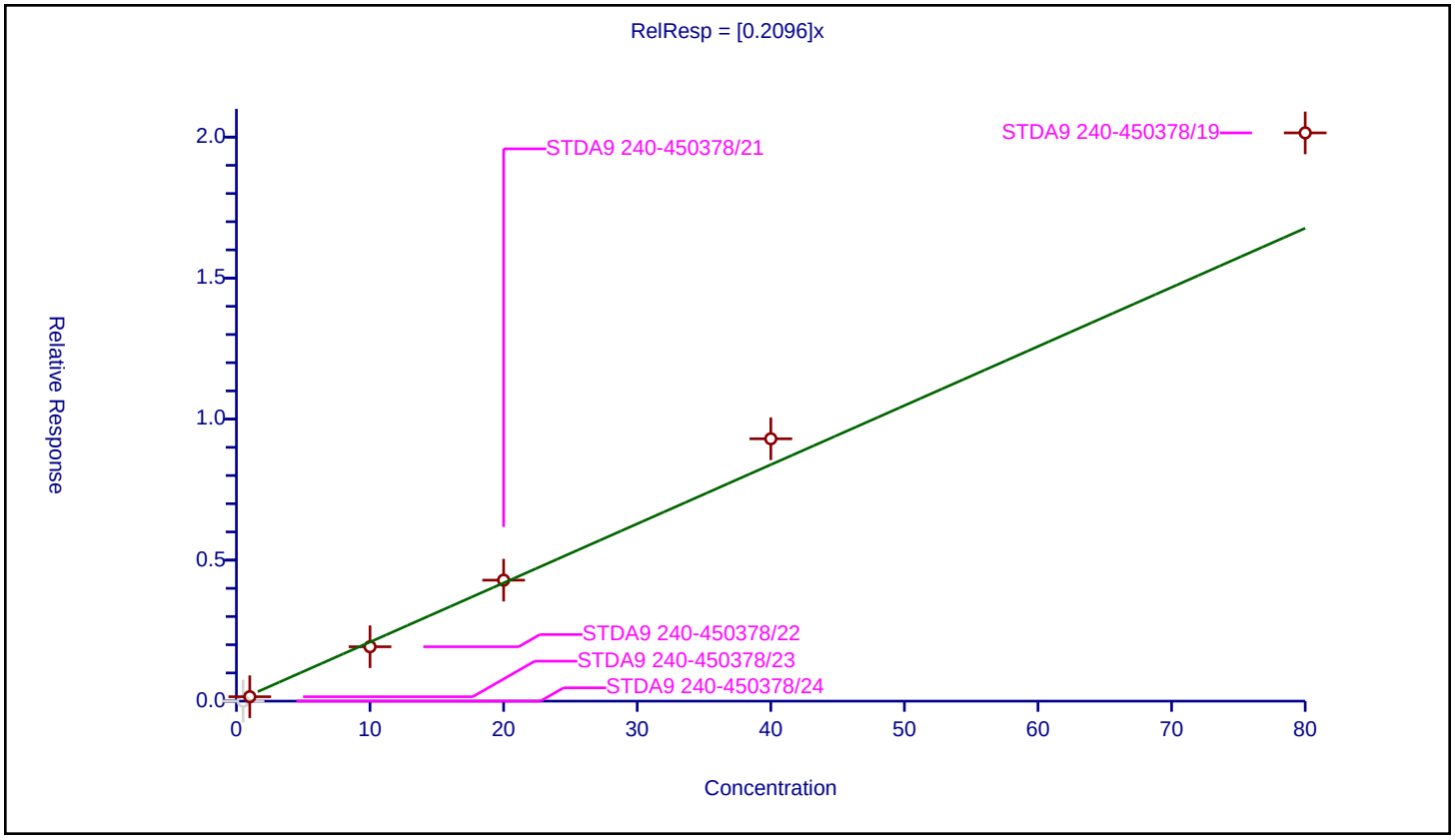
Curve Coefficients

Intercept:	0
Slope:	0.2096

Error Coefficients

Standard Error:	239000
Relative Standard Error:	17.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.0	20.0	374881.0	0.0	N
2	STDA9 240-450378/23	1.0	0.156196	20.0	375681.0	0.156196	Y
3	STDA9 240-450378/22	10.0	1.929195	20.0	384067.0	0.192919	Y
4	STDA9 240-450378/21	20.0	4.290307	20.0	396256.0	0.214515	Y
5	STDA9 240-450378/20	40.0	9.303177	20.0	417997.0	0.232579	Y
6	STDA9 240-450378/19	80.0	20.149221	20.0	423399.0	0.251865	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

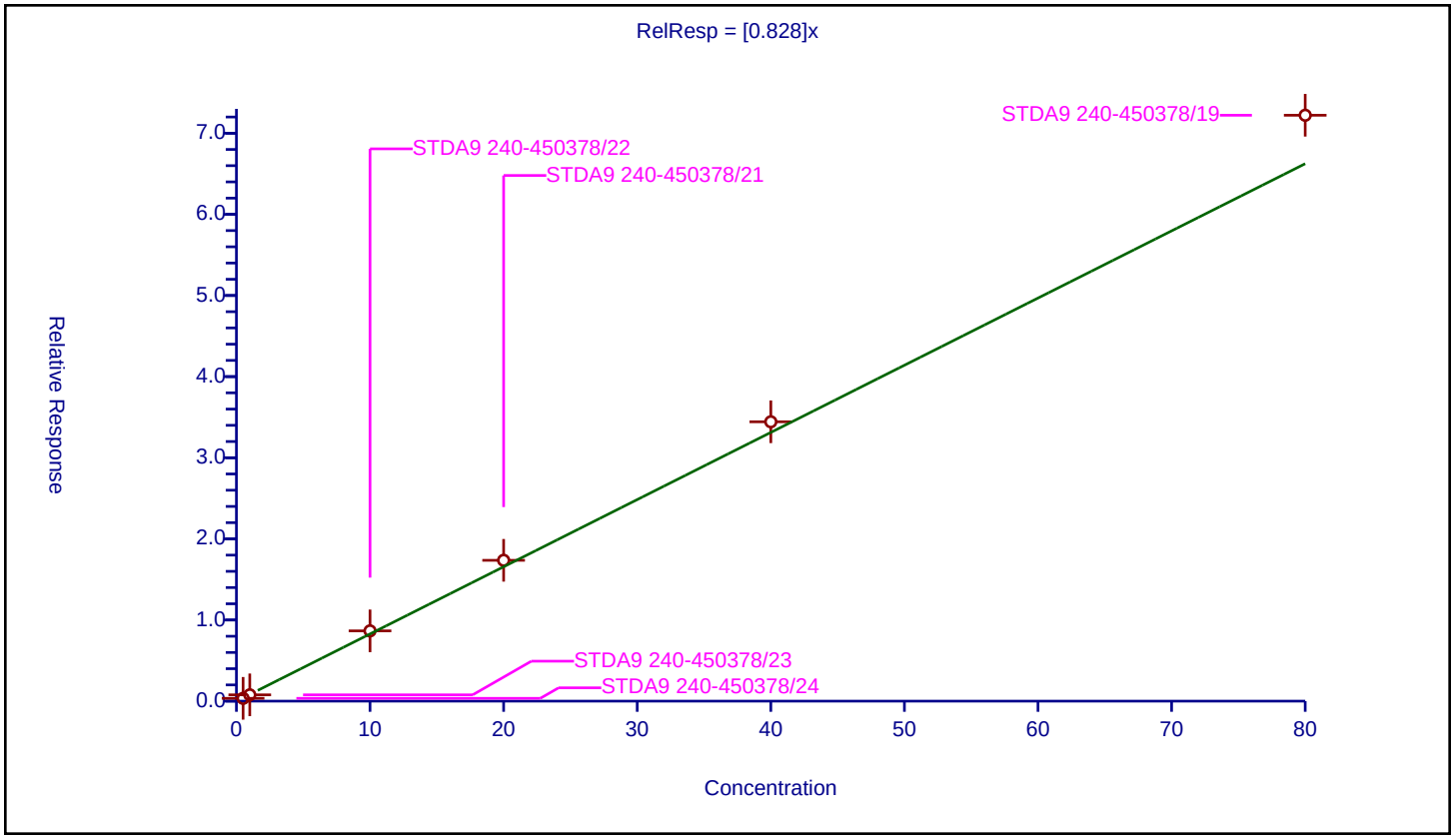
Curve Coefficients

Intercept:	0
Slope:	0.828

Error Coefficients

Standard Error:	775000
Relative Standard Error:	9.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	0.5	0.34699	20.0	374881.0	0.69398	Y
2	STDA9 240-450378/23	1.0	0.77667	20.0	375681.0	0.77667	Y
3	STDA9 240-450378/22	10.0	8.661301	20.0	384067.0	0.86613	Y
4	STDA9 240-450378/21	20.0	17.359384	20.0	396256.0	0.867969	Y
5	STDA9 240-450378/20	40.0	34.433214	20.0	417997.0	0.86083	Y
6	STDA9 240-450378/19	80.0	72.216703	20.0	423399.0	0.902709	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

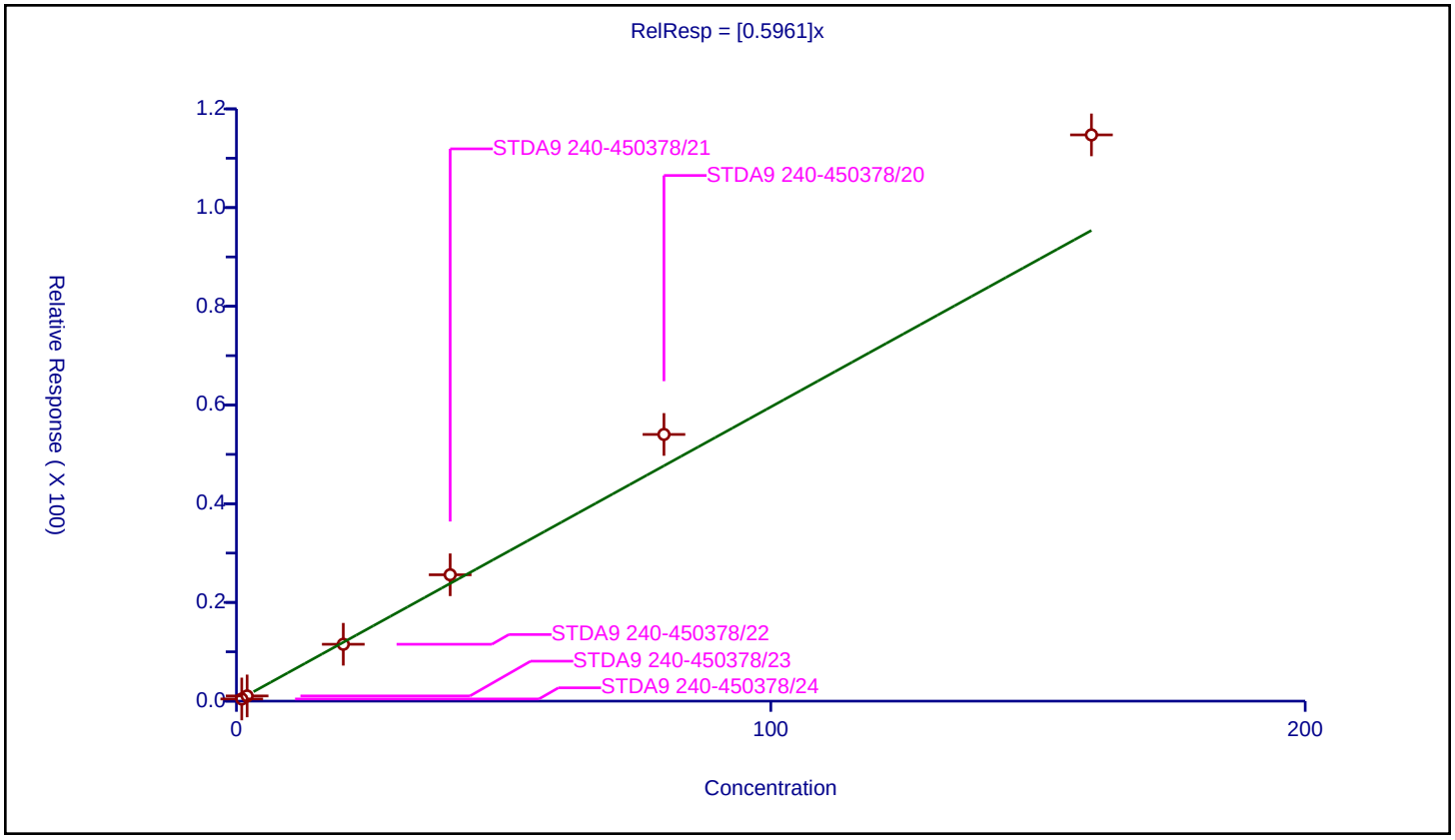
Curve Coefficients

Intercept:	0
Slope:	0.5961

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	17.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	1.0	0.441367	20.0	374881.0	0.441367	Y
2	STDA9 240-450378/23	2.0	1.052915	20.0	375681.0	0.526457	Y
3	STDA9 240-450378/22	20.0	11.522521	20.0	384067.0	0.576126	Y
4	STDA9 240-450378/21	40.0	25.602944	20.0	396256.0	0.640074	Y
5	STDA9 240-450378/20	80.0	54.036943	20.0	417997.0	0.675462	Y
6	STDA9 240-450378/19	160.0	114.735321	20.0	423399.0	0.717096	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

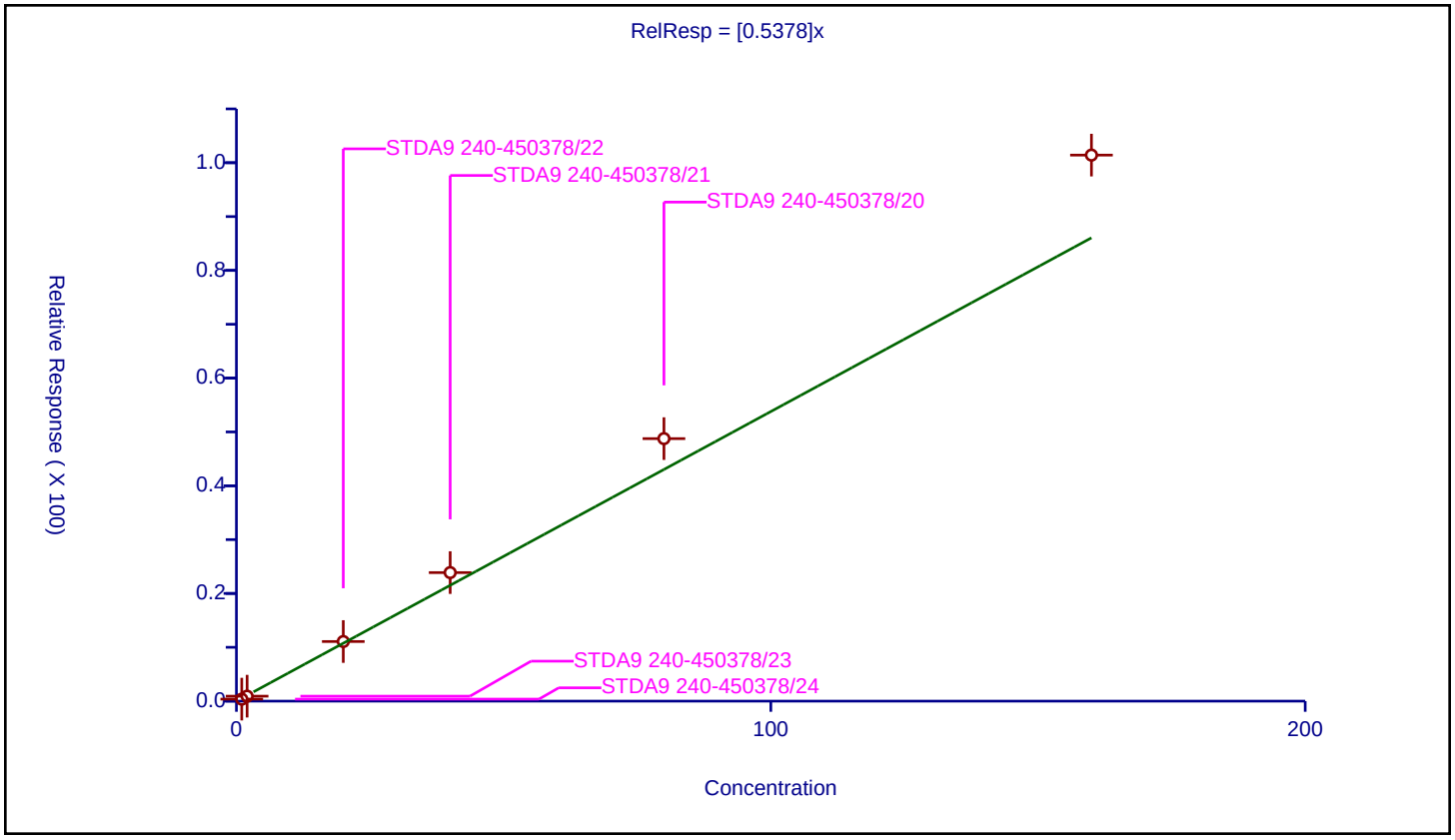
Curve Coefficients

Intercept:	0
Slope:	0.5378

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	18.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-450378/24	1.0	0.371905	20.0	374881.0	0.371905	Y
2	STDA9 240-450378/23	2.0	0.922165	20.0	375681.0	0.461083	Y
3	STDA9 240-450378/22	20.0	11.073589	20.0	384067.0	0.553679	Y
4	STDA9 240-450378/21	40.0	23.877695	20.0	396256.0	0.596942	Y
5	STDA9 240-450378/20	80.0	48.759537	20.0	417997.0	0.609494	Y
6	STDA9 240-450378/19	160.0	101.417764	20.0	423399.0	0.633861	Y



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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 337917

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:24 Calibration End Date: 07/25/2018 15:15 Calibration ID: 46243

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-337917/13	U1900807.d
Level 2	STDA9 240-337917/12	U1900806.d
Level 3	STDA9 240-337917/11	U1900805.d
Level 4	STDA9 240-337917/10	U1900804.d
Level 5	STDA9 240-337917/9	U1900803.d
Level 6	STDA9 240-337917/8	U1900802.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								
Acetonitrile	0.0267 0.0420	0.0243	0.0339	0.0383	0.0393	Lin1	-0.123	0.0406				15.8			0.9970		0.9900
Diisopropyl ether	0.2480 0.2295	0.2266	0.2186	0.2314	0.2335	Ave		0.2313				4.2		20.0			
2-Chloro-1,3-butadiene	0.4103 0.4183	0.3468	0.3861	0.4073	0.4185	Ave		0.3979				7.0		20.0			
Ethyl-t-butyl ether (ETBE)	0.6986 0.7570	0.7116	0.6979	0.7473	0.7423	Ave		0.7258				3.6		20.0			
Ethyl acetate	0.3112 0.3333	0.2920	0.2787	0.2931	0.2963	Ave		0.3007				6.3		20.0			
Propionitrile	0.0310 0.0489	0.0345	0.0381	0.0469	0.0451	Ave		0.0408				17.8		20.0			
Methacrylonitrile	0.1725 0.1953	0.1825	0.1747	0.1831	0.1889	Ave		0.1828				4.7		20.0			
Tert-amyl-methyl ether (TAME)	0.7358 0.8075	0.7777	0.7365	0.7842	0.7786	Ave		0.7700				3.7		20.0			
n-Butanol	0.0093 0.0103	0.0088	0.0085	0.0096	0.0096	Ave		0.0094				7.2		20.0			
Ethyl acrylate	0.3503 0.4100	0.3368	0.3674	0.3811	0.3761	Ave		0.3703				6.9		20.0			
Methyl methacrylate	0.2597 0.2591	0.2305	0.2383	0.2454	0.2423	Ave		0.2459				4.7		20.0			
2-Nitropropane	0.0701 0.0817	0.0670	0.0681	0.0750	0.0735	Ave		0.0726				7.5		20.0			
n-Butyl acetate	0.5119 0.5820	0.5042	0.5279	0.5447	0.5478	Ave		0.5364				5.3		20.0			
1-Chlorohexane	0.5172 0.4745	0.4432	0.4302	0.4451	0.4558	Ave		0.4610				6.8		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 337917

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:24 Calibration End Date: 07/25/2018 15:15 Calibration ID: 46243

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								
Cyclohexanone	0.0133 0.0157	0.0130	0.0126	0.0136	0.0138	Ave		0.0137				7.9		20.0			
Pentachloroethane	0.3347 0.3690	0.3068	0.3632	0.3574	0.3461	Ave		0.3462				6.6		20.0			
1,2,3-Trimethylbenzene	2.1501 2.3751	2.2616	2.2092	2.3745	2.2840	Ave		2.2757				3.9		20.0			
Benzyl chloride	1.0405 1.5547	1.1450	1.1839	1.3693	1.4244	Ave		1.2863				15.1		20.0			
1,3,5-Trichlorobenzene	1.0658 1.0430	1.1076	0.9448	1.0009	0.9668	Ave		1.0215				6.1		20.0			
2-Methylnaphthalene	1.2994 1.8015	1.3689	1.2543	1.3185	1.5534	Ave		1.4327				14.6		20.0			
1-Chloro-1-fluoroethane TIC	0.2622 0.2664	0.2640	0.2502	0.2645	0.2646	Ave		0.2620				2.3		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 337917

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:24 Calibration End Date: 07/25/2018 15:15 Calibration ID: 46243

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-337917/13	U1900807.d
Level 2	STDA9 240-337917/12	U1900806.d
Level 3	STDA9 240-337917/11	U1900805.d
Level 4	STDA9 240-337917/10	U1900804.d
Level 5	STDA9 240-337917/9	U1900803.d
Level 6	STDA9 240-337917/8	U1900802.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Lin1	6053 1541995	10939	154933	344974	710013	5.00 800	10.0	100	200	400
Diisopropyl ether	FB	Ave	5629 842560	10198	100050	208654	422081	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	9314 1535298	15609	176705	367286	756317	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	15860 2778668	32026	319412	673922	1341567	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl acetate	FB	Ave	14128 2446844	26280	255115	528543	1070993	1.00 160	2.00	20.0	40.0	80.0
Propionitrile	FB	Ave	7042 1793207	15532	174314	423266	816037	5.00 800	10.0	100	200	400
Methacrylonitrile	FB	Ave	39164 7168171	82133	799457	1651014	3414371	5.00 800	10.0	100	200	400
Tert-amyl-methyl ether (TAME)	FB	Ave	16704 2963984	35001	337094	707156	1407333	0.500 80.0	1.00	10.0	20.0	40.0
n-Butanol	FB	Ave	5296 949589	9875	96861	216043	435974	12.5 2000	25.0	250	500	1000
Ethyl acrylate	FB	Ave	7952 1504928	15158	168159	343646	679802	0.500 80.0	1.00	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	11793 1902368	20747	218113	442524	875995	1.00 160	2.00	20.0	40.0	80.0
2-Nitropropane	FB	Ave	3185 599949	6028	62364	135288	265523	1.00 160	2.00	20.0	40.0	80.0
n-Butyl acetate	CBNZ d5	Ave	9641 1740666	17906	199107	397090	794623	0.500 80.0	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 337917

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:24 Calibration End Date: 07/25/2018 15:15 Calibration ID: 46243

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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-Chlorohexane	CBNZ d5	Ave	9741 1419019	15739	162266	324476	661168	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexanone	CBNZ d5	Ave	2498 468992	4617	47625	99504	200187	5.00 800	10.0	100	200	400
Pentachloroethane	DCBd 4	Ave	7164 1229564	12769	154980	304359	585743	1.00 160	2.00	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	23009 3957298	47067	471355	1010948	1932917	0.500 80.0	1.00	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Ave	11135 2590360	23829	252607	582984	1205410	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	11406 1737829	23051	201583	426143	818176	0.500 80.0	1.00	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	27811 6003075	56979	535247	1122673	2629143	1.00 160	2.00	20.0	40.0	80.0
1-Chloro-1-fluoroethane TIC	FB	Ave	5953 977727	11883	114539	238507	478166	0.500 80.0	1.00	10.0	20.0	40.0

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 337917

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2018 13:24 Calibration End Date: 07/25/2018 15:15 Calibration ID: 46243

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-337917/13	U1900807.d
Level 2	STDA9 240-337917/12	U1900806.d
Level 3	STDA9 240-337917/11	U1900805.d
Level 4	STDA9 240-337917/10	U1900804.d
Level 5	STDA9 240-337917/9	U1900803.d
Level 6	STDA9 240-337917/8	U1900802.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Acetonitrile	26.1						50					

Report Date: 25-Jul-2018 16:29:56 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900802.d
Lims ID: stdA9 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 25-Jul-2018 13:24:03 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078311-008
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub3

Method: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 16:29:55 Calib Date: 25-Jul-2018 15:15:13
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900807.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 14:10:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	99	917631	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	66	747699	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	69	416540	20.0	20.0	
165 1-Chloro-1-fluoroethane TI	47	2.215	2.226	-0.011	93	977727	80.0	81.3	
25 Acetonitrile	41	3.329	3.329	0.000	99	1541995	800.0	831.3	
36 Isopropyl ether	87	4.171	4.171	0.000	94	842560	80.0	79.4	
37 2-Chloro-1,3-butadiene	53	4.195	4.195	0.000	87	1535298	80.0	84.1	
38 Tert-butyl ethyl ether	59	4.491	4.491	0.000	96	2778668	80.0	83.4	
42 Ethyl acetate	43	4.681	4.681	0.000	97	2446844	160.0	177.3	
43 Propionitrile	54	4.681	4.681	0.000	59	1793207	800.0	958.9	
44 Methacrylonitrile	41	4.823	4.823	0.000	91	7168171	800.0	854.5	
55 Tert-amyl methyl ether	73	5.499	5.499	0.000	90	2963984	80.0	83.9	
57 n-Butanol	56	5.891	5.891	0.000	85	949589	2000.0	2211.5	
59 Ethyl acrylate	55	6.057	6.057	0.000	99	1504928	80.0	88.6	
62 Methyl methacrylate	41	6.270	6.270	0.000	91	1902368	160.0	168.6	
66 2-Nitropropane	41	6.638	6.638	0.000	95	599949	160.0	180.2	
78 n-Butyl acetate	43	7.883	7.883	0.000	99	1740666	80.0	86.8	
81 1-Chlorohexane	91	8.488	8.488	0.000	96	1419019	80.0	82.3	
90 Cyclohexanone	55	9.614	9.614	0.000	92	468992	800.0	917.7	
100 Pentachloroethane	167	10.492	10.492	0.000	88	1229564	160.0	170.5	
106 1,2,3-Trimethylbenzene	105	10.966	10.966	0.000	96	3957298	80.0	83.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 Benzyl chloride	91	11.049	11.049	0.000	97	2590360	80.0	96.7	
111 1,3,5-Trichlorobenzene	180	12.354	12.354	0.000	97	1737829	80.0	81.7	
116 2-Methylnaphthalene	142	14.619	14.619	0.000	89	6003075	160.0	201.2	

Reagents:

vm50is_stk_A_00001	Amount Added: 2.00	Units: uL
vmra9w_00259	Amount Added: 64.00	Units: uL

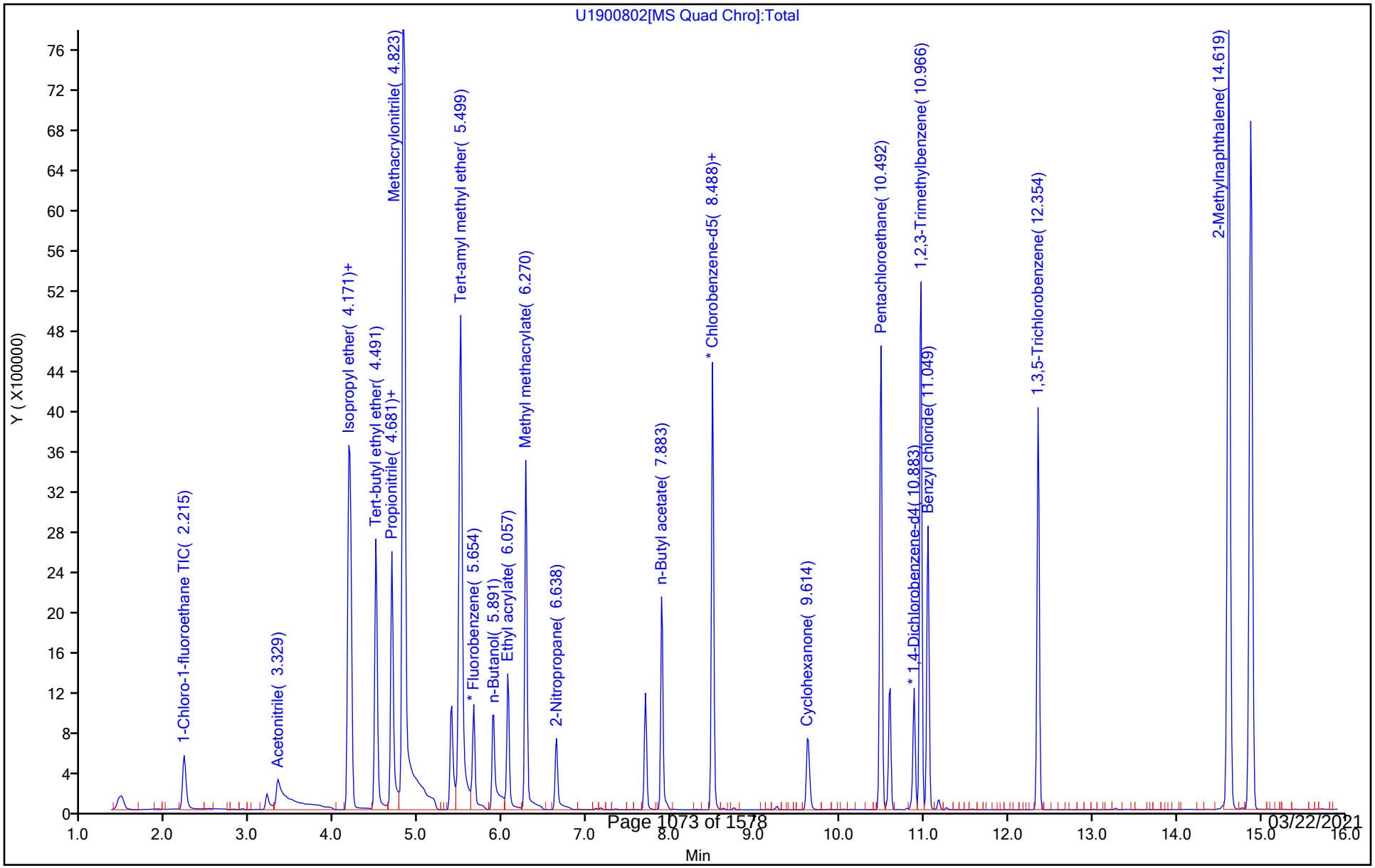
Report Date: 25-Jul-2018 16:29:56 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900802.d

Injection Date:	25-Jul-2018 13:24:03	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	stdA9 L6			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 25-Jul-2018 16:29:59 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900803.d
Lims ID: stdA9 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Jul-2018 13:46:28 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078311-009
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub3

Method: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 16:29:58 Calib Date: 25-Jul-2018 15:15:13
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900807.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 14:11:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	99	903705	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	81	725276	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	74	423134	20.0	20.0	
165 1-Chloro-1-fluoroethane TI	47	2.227	2.226	0.001	94	478166	40.0	40.4	
25 Acetonitrile	41	3.329	3.329	0.000	99	710013	400.0	390.3	
36 Isopropyl ether	87	4.171	4.171	0.000	94	422081	40.0	40.4	
37 2-Chloro-1,3-butadiene	53	4.195	4.195	0.000	87	756317	40.0	42.1	
38 Tert-butyl ethyl ether	59	4.492	4.491	0.001	87	1341567	40.0	40.9	
43 Propionitrile	54	4.681	4.681	0.000	62	816037	400.0	443.1	
42 Ethyl acetate	43	4.681	4.681	0.000	97	1070993	80.0	78.8	
44 Methacrylonitrile	41	4.824	4.823	0.001	91	3414371	400.0	413.3	
55 Tert-amyl methyl ether	73	5.511	5.499	0.012	92	1407333	40.0	40.4	
57 n-Butanol	56	5.891	5.891	0.000	85	435974	1000.0	1031.0	
59 Ethyl acrylate	55	6.057	6.057	0.000	93	679802	40.0	40.6	
62 Methyl methacrylate	41	6.270	6.270	0.000	92	875995	80.0	78.8	
66 2-Nitropropane	41	6.638	6.638	0.000	96	265523	80.0	81.0	
78 n-Butyl acetate	43	7.883	7.883	0.000	99	794623	40.0	40.8	
81 1-Chlorohexane	91	8.488	8.488	0.000	96	661168	40.0	39.6	
90 Cyclohexanone	55	9.615	9.614	0.001	91	200187	400.0	403.8	
100 Pentachloroethane	167	10.492	10.492	0.000	87	585743	80.0	80.0	
106 1,2,3-Trimethylbenzene	105	10.966	10.966	0.000	94	1932917	40.0	40.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 Benzyl chloride	91	11.049	11.049	0.000	97	1205410	40.0	44.3	
111 1,3,5-Trichlorobenzene	180	12.354	12.354	0.000	97	818176	40.0	37.9	
116 2-Methylnaphthalene	142	14.619	14.619	0.000	90	2629143	80.0	86.7	

Reagents:

vm50is_stk_A_00001	Amount Added: 2.00	Units: uL
vmra9w_00259	Amount Added: 32.00	Units: uL

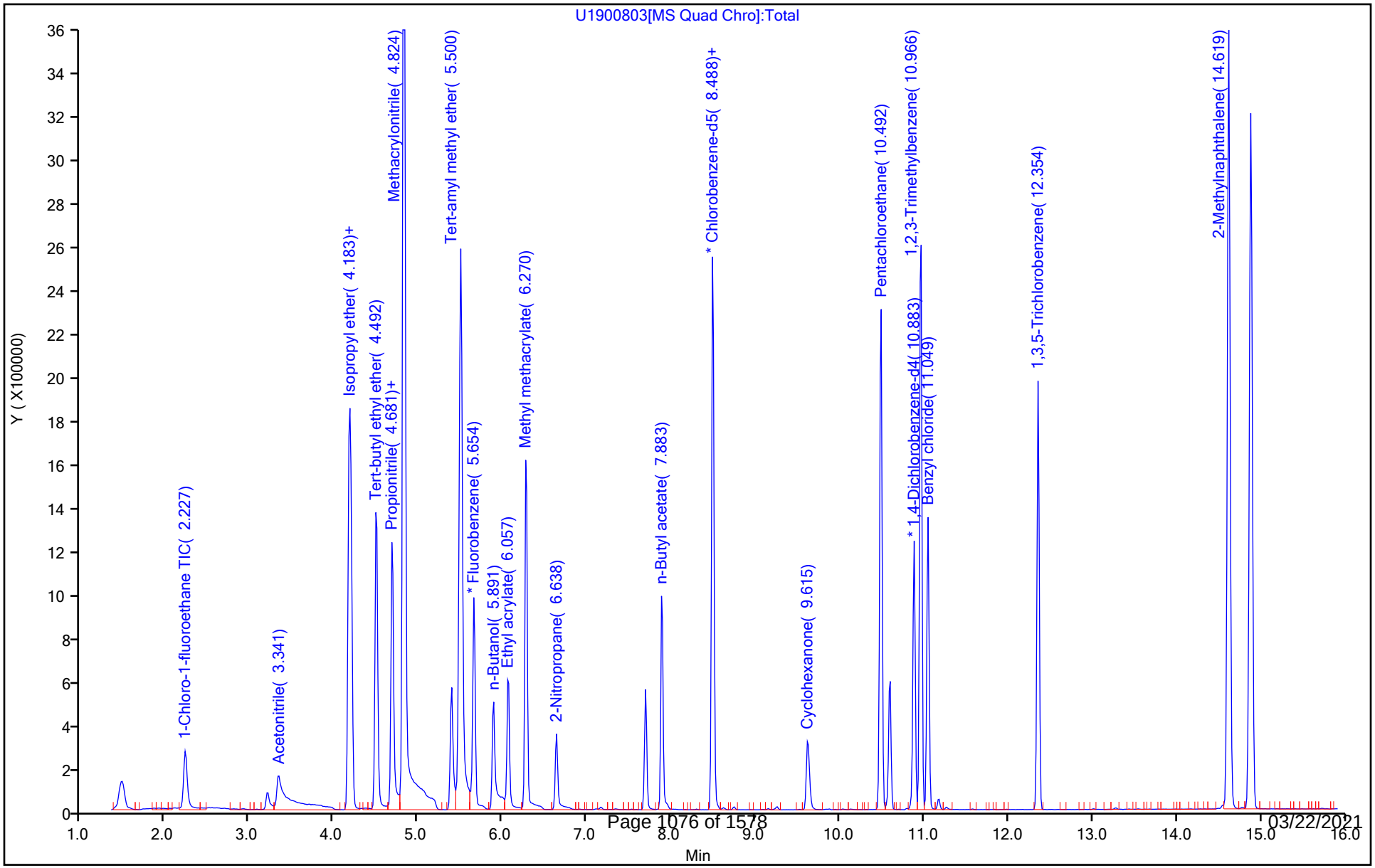
Report Date: 25-Jul-2018 16:29:59 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900803.d

Injection Date:	25-Jul-2018 13:46:28	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	stdA9 L5			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900804.d
Lims ID: stdA9 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 25-Jul-2018 14:08:31 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078311-010
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub3

Method: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 16:30:08 Calib Date: 25-Jul-2018 15:15:13
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900807.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 14:50:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	99	901786	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	82	728980	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	83	425754	20.0	20.0	
165 1-Chloro-1-fluoroethane TI	47	2.226	2.226	0.000	93	238507	20.0	20.2	
25 Acetonitrile	41	3.329	3.329	0.000	99	344974	200.0	191.6	
36 Isopropyl ether	87	4.171	4.171	0.000	94	208654	20.0	20.0	
37 2-Chloro-1,3-butadiene	53	4.195	4.195	0.000	90	367286	20.0	20.5	
38 Tert-butyl ethyl ether	59	4.491	4.491	0.000	98	673922	20.0	20.6	
42 Ethyl acetate	43	4.681	4.681	0.000	96	528543	40.0	39.0	
43 Propionitrile	54	4.681	4.681	0.000	66	423266	200.0	230.3	
44 Methacrylonitrile	41	4.823	4.823	0.000	91	1651014	200.0	200.3	
55 Tert-amyl methyl ether	73	5.499	5.499	0.000	90	707156	20.0	20.4	
57 n-Butanol	56	5.891	5.891	0.000	85	216043	500.0	512.0	
59 Ethyl acrylate	55	6.057	6.057	0.000	92	343646	20.0	20.6	
62 Methyl methacrylate	41	6.270	6.270	0.000	92	442524	40.0	39.9	
66 2-Nitropropane	41	6.638	6.638	0.000	98	135288	40.0	41.3	
78 n-Butyl acetate	43	7.883	7.883	0.000	99	397090	20.0	20.3	
81 1-Chlorohexane	91	8.488	8.488	0.000	74	324476	20.0	19.3	
90 Cyclohexanone	55	9.614	9.614	0.000	91	99504	200.0	199.7	
100 Pentachloroethane	167	10.492	10.492	0.000	86	304359	40.0	41.3	
106 1,2,3-Trimethylbenzene	105	10.966	10.966	0.000	86	1010948	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 Benzyl chloride	91	11.049	11.049	0.000	97	582984	20.0	21.3	
111 1,3,5-Trichlorobenzene	180	12.354	12.354	0.000	97	426143	20.0	19.6	
116 2-Methylnaphthalene	142	14.619	14.619	0.000	89	1122673	40.0	36.8	

Reagents:

vm50is_stk_A_00001	Amount Added: 2.00	Units: uL
vmra9w_00259	Amount Added: 16.00	Units: uL

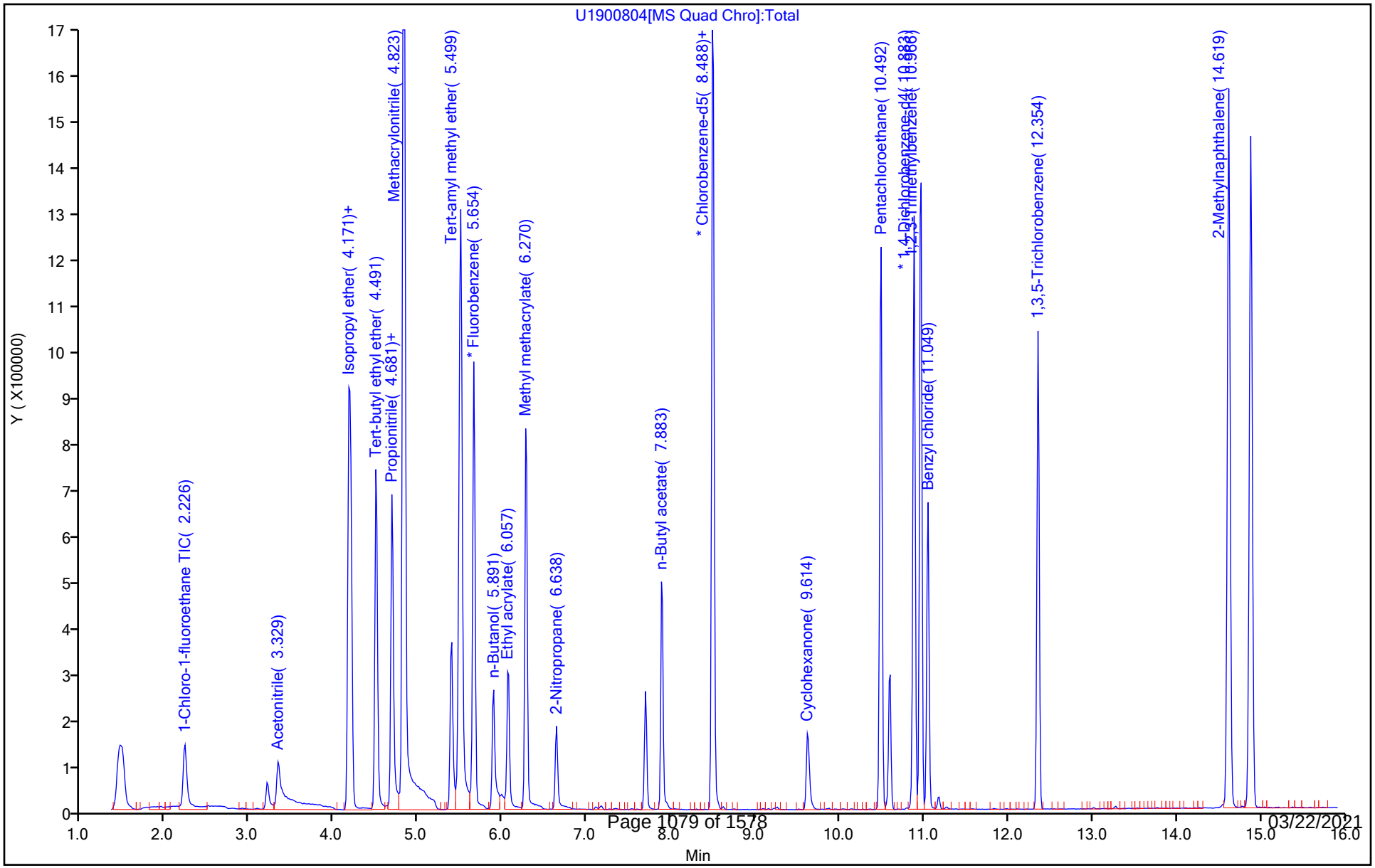
Report Date: 25-Jul-2018 16:30:10 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900804.d

Injection Date:	25-Jul-2018 14:08:31	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	stdA9 L4			Worklist Smp#:	10
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900805.d
Lims ID: stdA9 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 25-Jul-2018 14:30:45 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078311-011
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub3

Method: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 16:30:13 Calib Date: 25-Jul-2018 15:15:13
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900807.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 14:49:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	99	915400	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	82	754374	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	85	426728	20.0	20.0	
165 1-Chloro-1-fluoroethane TI	47	2.215	2.226	-0.011	93	114539	10.0	9.55	
25 Acetonitrile	41	3.329	3.329	0.000	98	154933	100.0	86.5	
36 Isopropyl ether	87	4.171	4.171	0.000	93	100050	10.0	9.45	
37 2-Chloro-1,3-butadiene	53	4.195	4.195	0.000	87	176705	10.0	9.70	
38 Tert-butyl ethyl ether	59	4.491	4.491	0.000	83	319412	10.0	9.62	
43 Propionitrile	54	4.681	4.681	0.000	52	174314	100.0	93.4	
42 Ethyl acetate	43	4.681	4.681	0.000	96	255115	20.0	18.5	
44 Methacrylonitrile	41	4.823	4.823	0.000	91	799457	100.0	95.5	
55 Tert-amyl methyl ether	73	5.499	5.499	0.000	89	337094	10.0	9.56	
57 n-Butanol	56	5.891	5.891	0.000	85	96861	250.0	226.1	
59 Ethyl acrylate	55	6.057	6.057	0.000	99	168159	10.0	9.92	
62 Methyl methacrylate	41	6.270	6.270	0.000	90	218113	20.0	19.4	
66 2-Nitropropane	41	6.638	6.638	0.000	96	62364	20.0	18.8	
78 n-Butyl acetate	43	7.883	7.883	0.000	99	199107	10.0	9.84	
81 1-Chlorohexane	91	8.488	8.488	0.000	54	162266	10.0	9.33	
90 Cyclohexanone	55	9.614	9.614	0.000	90	47625	100.0	92.4	
100 Pentachloroethane	167	10.492	10.492	0.000	86	154980	20.0	21.0	
106 1,2,3-Trimethylbenzene	105	10.966	10.966	0.000	72	471355	10.0	9.71	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 Benzyl chloride	91	11.049	11.049	0.000	97	252607	10.0	9.20	
111 1,3,5-Trichlorobenzene	180	12.354	12.354	0.000	97	201583	10.0	9.25	
116 2-Methylnaphthalene	142	14.619	14.619	0.000	90	535247	20.0	17.5	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmra9w_00259	Amount Added:	8.00	Units: uL

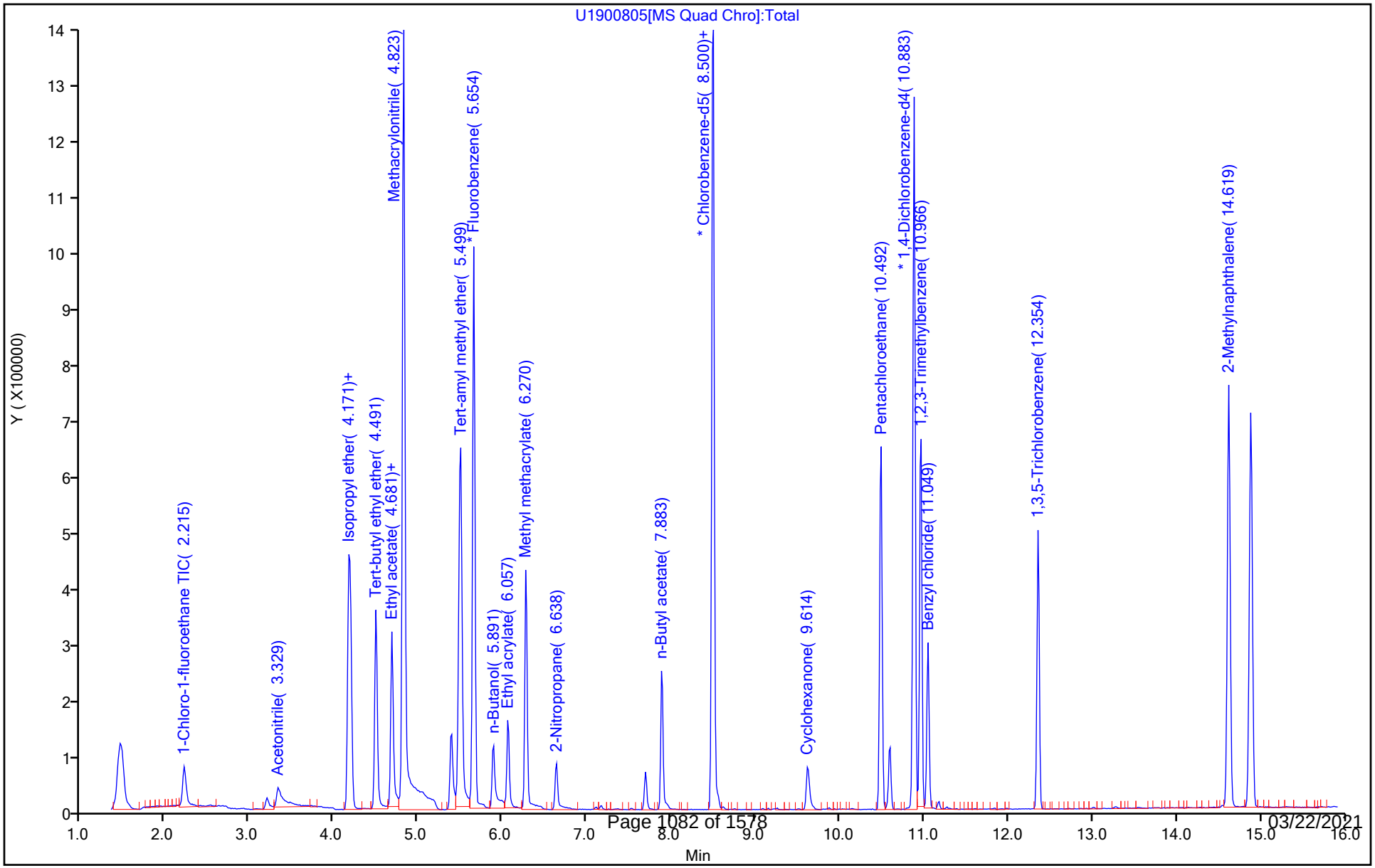
Report Date: 25-Jul-2018 16:30:14 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900805.d

Injection Date:	25-Jul-2018 14:30:45	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	stdA9 L3			Worklist Smp#:	11
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900806.d
Lims ID: stdA9 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 25-Jul-2018 14:52:59 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078311-012
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub3

Method: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 16:30:17 Calib Date: 25-Jul-2018 15:15:13
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900807.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 15:15:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	99	900144	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	82	710298	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	92	416233	20.0	20.0	
165 1-Chloro-1-fluoroethane TI	47	2.227	2.226	0.001	86	11883	1.00	1.01	
25 Acetonitrile	41	3.341	3.329	0.012	88	10939	10.0	9.01	
36 Isopropyl ether	87	4.183	4.171	0.012	93	10198	1.00	0.9798	
37 2-Chloro-1,3-butadiene	53	4.195	4.195	0.000	82	15609	1.00	0.8717	
38 Tert-butyl ethyl ether	59	4.503	4.491	0.012	96	32026	1.00	0.9804	
42 Ethyl acetate	43	4.693	4.681	0.012	95	26280	2.00	1.94	
43 Propionitrile	54	4.693	4.681	0.012	62	15532	10.0	8.47	
44 Methacrylonitrile	41	4.824	4.823	0.001	92	82133	10.0	9.98	
55 Tert-amyl methyl ether	73	5.511	5.499	0.012	88	35001	1.00	1.01	
57 n-Butanol	56	5.891	5.891	0.000	65	9875	25.0	23.4	
59 Ethyl acrylate	55	6.069	6.057	0.012	85	15158	1.00	0.9096	
62 Methyl methacrylate	41	6.270	6.270	0.000	88	20747	2.00	1.87	
66 2-Nitropropane	41	6.638	6.638	0.000	82	6028	2.00	1.85	
78 n-Butyl acetate	43	7.883	7.883	0.000	90	17906	1.00	0.9399	
81 1-Chlorohexane	91	8.488	8.488	0.000	33	15739	1.00	0.9613	
90 Cyclohexanone	55	9.614	9.614	0.000	63	4617	10.0	9.51	
100 Pentachloroethane	167	10.492	10.492	0.000	76	12769	2.00	1.77	
106 1,2,3-Trimethylbenzene	105	10.966	10.966	0.000	67	47067	1.00	0.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 Benzyl chloride	91	11.049	11.049	0.000	84	23829	1.00	0.8901	
111 1,3,5-Trichlorobenzene	180	12.354	12.354	0.000	91	23051	1.00	1.08	
116 2-Methylnaphthalene	142	14.619	14.619	0.000	90	56979	2.00	1.91	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmra9w_00259	Amount Added:	0.80	Units: uL

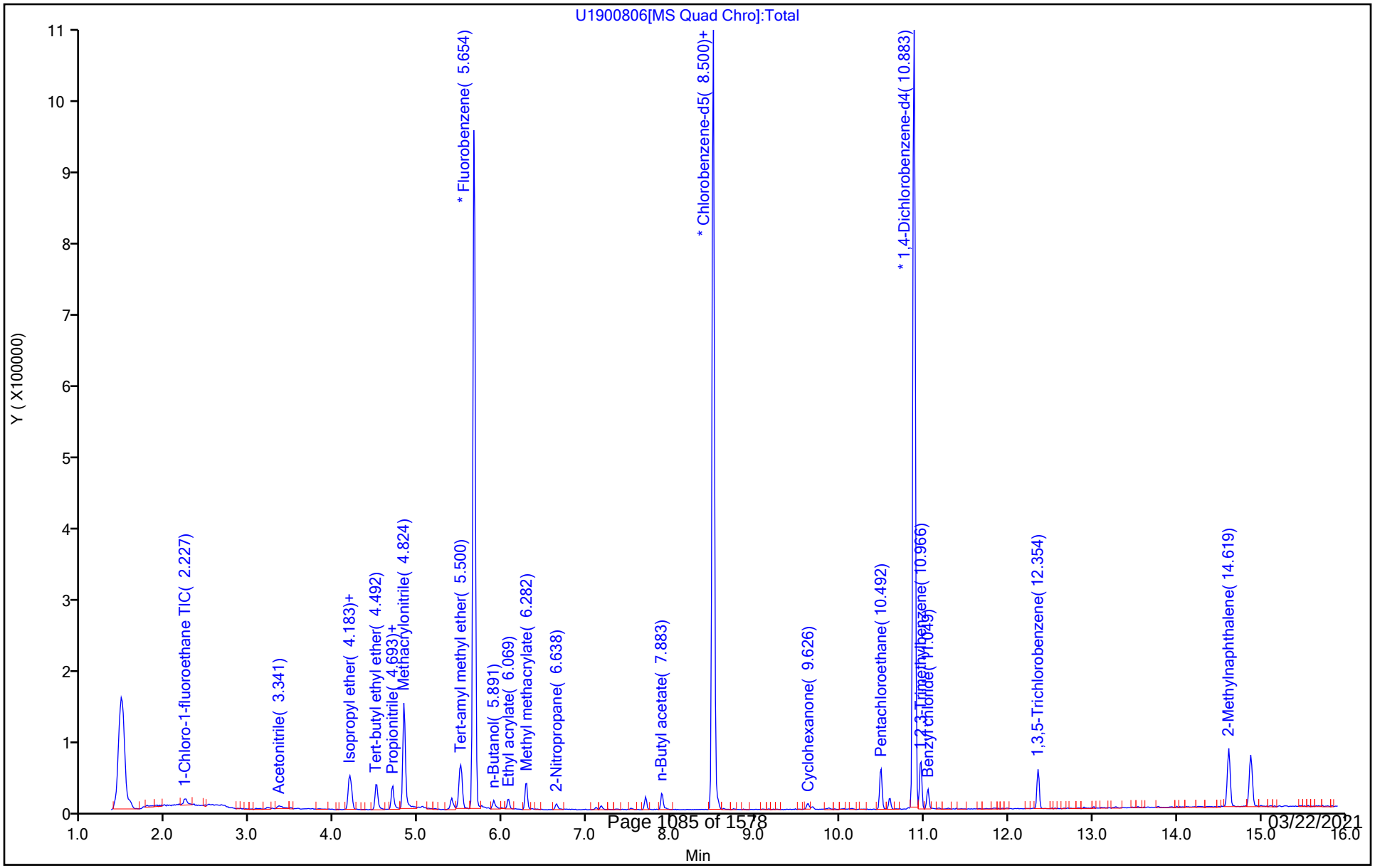
Report Date: 25-Jul-2018 16:30:18 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900806.d

Injection Date:	25-Jul-2018 14:52:59	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	stdA9 L2			Worklist Smp#:	12
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900807.d
Lims ID: stdA9 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 25-Jul-2018 15:15:13 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078311-013
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub3

Method: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 16:30:24 Calib Date: 25-Jul-2018 15:15:13
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900807.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 15:46:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	99	908077	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	753378	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	92	428059	20.0	20.0	
165 1-Chloro-1-fluoroethane TI	47	2.226	2.226	0.000	78	5953	0.5000	0.5005	
25 Acetonitrile	41	3.341	3.329	0.012	88	6053	5.00	6.31	
36 Isopropyl ether	87	4.171	4.171	0.000	86	5629	0.5000	0.5361	
37 2-Chloro-1,3-butadiene	53	4.195	4.195	0.000	71	9314	0.5000	0.5156	
38 Tert-butyl ethyl ether	59	4.491	4.491	0.000	92	15860	0.5000	0.4813	
43 Propionitrile	54	4.681	4.681	0.000	58	7042	5.00	3.81	
42 Ethyl acetate	43	4.681	4.681	0.000	90	14128	1.00	1.03	
44 Methacrylonitrile	41	4.823	4.823	0.000	89	39164	5.00	4.72	
55 Tert-amyl methyl ether	73	5.511	5.499	0.012	90	16704	0.5000	0.4778	
57 n-Butanol	56	5.891	5.891	0.000	79	5296	12.5	12.5	
59 Ethyl acrylate	55	6.069	6.057	0.012	84	7952	0.5000	0.4730	
62 Methyl methacrylate	41	6.270	6.270	0.000	84	11793	1.00	1.06	
66 2-Nitropropane	41	6.638	6.638	0.000	74	3185	1.00	0.9666	
78 n-Butyl acetate	43	7.895	7.883	0.012	86	9641	0.5000	0.4771	
81 1-Chlorohexane	91	8.488	8.488	0.000	32	9741	0.5000	0.5610	
90 Cyclohexanone	55	9.626	9.614	0.012	50	2498	5.00	4.85	
100 Pentachloroethane	167	10.492	10.492	0.000	68	7164	1.00	0.9669	
106 1,2,3-Trimethylbenzene	105	10.966	10.966	0.000	62	23009	0.5000	0.4724	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 Benzyl chloride	91	11.049	11.049	0.000	72	11135	0.5000	0.4045	
111 1,3,5-Trichlorobenzene	180	12.354	12.354	0.000	67	11406	0.5000	0.5217	
116 2-Methylnaphthalene	142	14.619	14.619	0.000	81	27811	1.00	0.9070	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmra9w_00259	Amount Added:	0.40	Units: uL

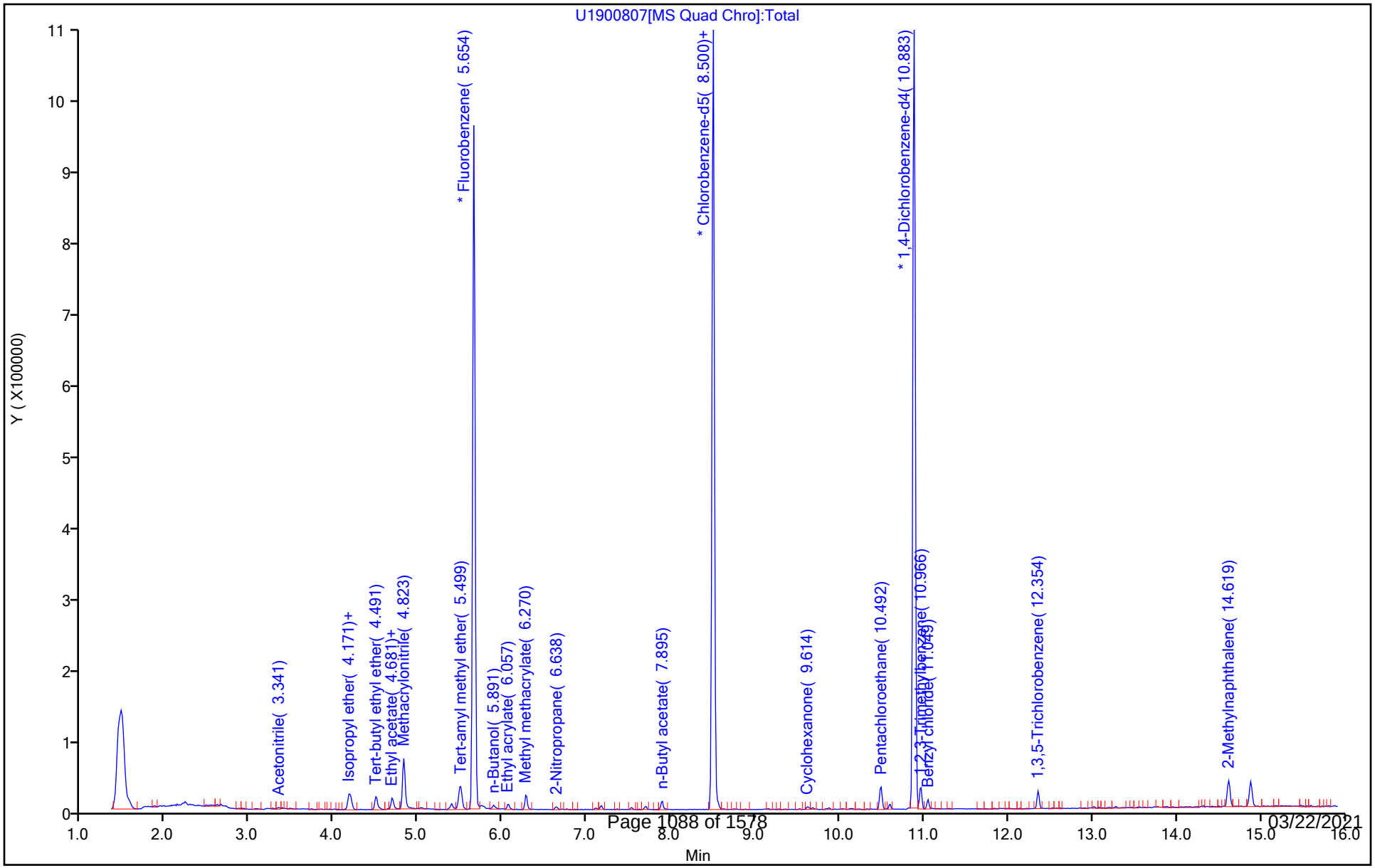
Report Date: 25-Jul-2018 16:30:25 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900807.d

Injection Date:	25-Jul-2018 15:15:13	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	stdA9 L1			Worklist Smp#:	13
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-342719/13	U1901329.d
Level 2	STD8260 240-342719/12	U1901328.d
Level 3	STD8260 240-342719/11	U1901327.d
Level 4	ICIS 240-342719/10	U1901326.d
Level 5	STD8260 240-342719/9	U1901325.d
Level 6	STD8260 240-342719/8	U1901324.d
Level 7	STD8260 240-342719/7	U1901323.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								
Dichlorodifluoromethane	0.3252 0.4073	0.3858 0.4041	0.3902	0.3772	0.4052	Ave		0.3850			0.1000	7.5		20.0			
Chloromethane	0.3476 0.2860	0.2731 0.2757	0.2817	0.2748	0.2796	Ave		0.2883			0.1000	9.2		20.0			
Butadiene	0.2863 0.2923	0.2971 0.2827	0.2967	0.2831	0.2826	Ave		0.2887				2.3		20.0			
Vinyl chloride	0.2799 0.3039	0.3000 0.2955	0.3102	0.2950	0.3013	Ave		0.2980			0.1000	3.2		20.0			
Bromomethane	0.2530 0.2308	0.2391 0.2251	0.2340	0.2259	0.2264	Ave		0.2335			0.0500	4.3		20.0			
Chloroethane	0.2052 0.1842	0.1766 0.1812	0.1882	0.1779	0.1807	Ave		0.1848			0.0500	5.3		20.0			
Dichlorofluoromethane	0.4944 0.4514	0.4567 0.4411	0.4677	0.4468	0.4490	Ave		0.4581				3.9		20.0			
Trichlorofluoromethane	0.4941 0.5030	0.4893 0.4931	0.5122	0.4967	0.5003	Ave		0.4984			0.1000	1.5		20.0			
Ethyl ether	0.1731 0.1798	0.1898 0.1760	0.1849	0.1771	0.1791	Ave		0.1800				3.1		20.0			
Acrolein	0.0495 0.0430	0.0446 0.0441	0.0420	0.0454	0.0427	Ave		0.0445				5.6		20.0			
1,1-Dichloroethene	0.3476 0.3661	0.3473 0.3597	0.3727	0.3582	0.3610	Ave		0.3589			0.1000	2.6		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.2493 0.2658	0.2366 0.2616	0.2651	0.2563	0.2622	Ave		0.2567			0.0500	4.1		20.0			
Acetone	+++++ 0.0747	0.0941 0.0735	0.0766	0.0752	0.0764	Ave		0.0784			0.0100	9.9		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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								
Iodomethane	0.4872 0.4597	0.4730 0.4538	0.4730	0.4575	0.4539	Ave		0.4655				2.7		20.0			
Carbon disulfide	0.8746 0.7168	0.8257 0.7023	0.7362	0.7031	0.7015	Ave		0.7515			0.1000	9.3		20.0			
3-Chloro-1-propene	0.3735 0.3489	0.3837 0.3396	0.3586	0.3361	0.3385	Ave		0.3541				5.3		20.0			
Methyl acetate	0.2638 0.2201	0.2366 0.2157	0.2398	0.2267	0.2267	Ave		0.2328			0.1000	6.9		20.0			
Methylene Chloride	+++++ 0.2751	0.3184 0.2694	0.2925	0.2792	0.2733	Ave		0.2846			0.1000	6.5		20.0			
tert-Butyl alcohol	0.0302 0.0245	0.0277 0.0251	0.0284	0.0260	0.0277	Ave		0.0271				7.4		20.0			
Acrylonitrile	0.1006 0.0983	0.1046 0.0951	0.1079	0.0977	0.0997	Ave		0.1006				4.3		20.0			
trans-1,2-Dichloroethene	0.3568 0.3338	0.3540 0.3216	0.3508	0.3269	0.3267	Ave		0.3387			0.1000	4.4		20.0			
Methyl tert-butyl ether	0.6459 0.7174	0.6970 0.7172	0.7178	0.6715	0.6899	Ave		0.6938			0.1000	3.9		20.0			
Hexane	0.3287 0.3643	0.3216 0.3693	0.3652	0.3577	0.3600	Ave		0.3524				5.4		20.0			
1,1-Dichloroethane	0.3877 0.4112	0.4141 0.3990	0.4182	0.3989	0.4043	Ave		0.4048			0.2000	2.6		20.0			
Vinyl acetate	0.4652 0.4557	0.4582 0.4625	0.4853	0.4584	0.4619	Ave		0.4639				2.1		20.0			
cis-1,2-Dichloroethene	0.3057 0.2869	0.2992 0.2782	0.2948	0.2801	0.2786	Ave		0.2891			0.1000	3.8		20.0			
2,2-Dichloropropane	0.2469 0.2502	0.2497 0.2458	0.2443	0.2181	0.2515	Ave		0.2438				4.8		20.0			
2-Butanone	0.0487 0.0444	0.0481 0.0466	0.0506	0.0457	0.0465	Ave		0.0472			0.0100	4.3		20.0			
Bromochloromethane	0.2347 0.1831	0.2161 0.1713	0.1973	0.1804	0.1790	Ave		0.1945				11.9		20.0			
Tetrahydrofuran	+++++ 0.0978	0.2111 0.0981	0.1202	0.1027	0.1037	Lin1	0.2460	0.0976				7.4			0.9990		0.9900
Chloroform	0.4336 0.4423	0.4430 0.4326	0.4702	0.4398	0.4415	Ave		0.4433			0.2000	2.8		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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								
1,1,1-Trichloroethane	0.3739 0.4296	0.4106 0.4262	0.4442	0.4096	0.4275	Ave		0.4174			0.1000	5.4		20.0			
Cyclohexane	0.3499 0.3999	0.3515 0.3986	0.3944	0.3825	0.3967	Ave		0.3819			0.1000	5.8		20.0			
1,1-Dichloropropene	0.3411 0.3565	0.3509 0.3499	0.3664	0.3469	0.3516	Ave		0.3519				2.3		20.0			
Carbon tetrachloride	0.3818 0.4136	0.3781 0.4121	0.4219	0.3956	0.4130	Ave		0.4023			0.1000	4.3		20.0			
Isobutyl alcohol	0.0122 0.0101	0.0118 0.0103	0.0107	0.0108	0.0111	Ave		0.0110				7.0		20.0			
Benzene	0.9270 0.9480	0.9546 0.9366	1.0106	0.9431	0.9423	Ave		0.9518			0.5000	2.9		20.0			
1,2-Dichloroethane	0.3794 0.3459	0.3845 0.3369	0.3743	0.3513	0.3479	Ave		0.3600			0.1000	5.2		20.0			
n-Heptane	+++++ 0.1978	0.8214 0.1912	0.2589	0.2169	0.2053	Lin1	0.6437	0.1861				3.4			1.0000		0.9900
Trichloroethene	0.3334 0.3137	0.3081 0.3106	0.3277	0.3076	0.3109	Ave		0.3160			0.1500	3.3		20.0			
Methylcyclohexane	0.4282 0.4825	0.4267 0.4698	0.4724	0.4580	0.4751	Ave		0.4590			0.1000	5.0		20.0			
1,2-Dichloropropane	0.2171 0.2187	0.2141 0.2164	0.2362	0.2209	0.2218	Ave		0.2208			0.1000	3.3		20.0			
Dibromomethane	0.2410 0.2204	0.2408 0.2155	0.2336	0.2191	0.2191	Ave		0.2271				4.9		20.0			
1,4-Dioxane	+++++ 0.0025	0.0016 0.0027	0.0021	0.0026	0.0028	Ave		0.0024				17.9		20.0			
Bromodichloromethane	0.3399 0.3440	0.3630 0.3379	0.3620	0.3462	0.3426	Ave		0.3479			0.1500	3.0		20.0			
2-Chloroethyl vinyl ether	0.1593 0.1741	0.1654 0.1828	0.1943	0.1818	0.1815	Ave		0.1770				6.6		20.0			
cis-1,3-Dichloropropene	0.3743 0.3841	0.3867 0.3870	0.4032	0.3827	0.3872	Ave		0.3865			0.1500	2.2		20.0			
4-Methyl-2-pentanone	0.3150 0.3064	0.3110 0.3144	0.3487	0.3229	0.3240	Ave		0.3203			0.0500	4.4		20.0			
Toluene	1.3762 1.3312	1.3706 1.3223	1.4018	1.3282	1.3309	Ave		1.3516			0.4000	2.3		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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								
trans-1,3-Dichloropropene	0.4999 0.4712	0.5033 0.4805	0.4835	0.4641	0.4704	Ave		0.4818			0.1000	3.1		20.0			
Ethyl methacrylate	0.3824 0.4408	0.4001 0.4600	0.4577	0.4462	0.4540	Ave		0.4344				7.1		20.0			
1,1,2-Trichloroethane	0.2808 0.2823	0.2821 0.2821	0.2973	0.2798	0.2847	Ave		0.2842			0.1000	2.1		20.0			
Tetrachloroethene	0.4234 0.4375	0.4194 0.4317	0.4508	0.4248	0.4314	Ave		0.4313			0.1500	2.4		20.0			
1,3-Dichloropropane	0.4988 0.4724	0.4733 0.4772	0.5009	0.4686	0.4705	Ave		0.4802				2.8		20.0			
2-Hexanone	0.2781 0.3092	0.3020 0.3219	0.3438	0.3247	0.3245	Ave		0.3149			0.0500	6.6		20.0			
Dibromochloromethane	0.3308 0.3663	0.3497 0.3646	0.3736	0.3604	0.3630	Ave		0.3583				3.9		20.0			
1,2-Dibromoethane	0.3770 0.3214	0.3321 0.3219	0.3422	0.3286	0.3194	Ave		0.3346				6.1		20.0			
Chlorobenzene	0.9370 0.9055	0.9832 0.8914	0.9544	0.9002	0.9056	Ave		0.9253			0.3000	3.7		20.0			
1,1,1,2-Tetrachloroethane	0.3225 0.3380	0.3313 0.3315	0.3490	0.3282	0.3347	Ave		0.3336				2.5		20.0			
Ethylbenzene	0.4566 0.4899	0.4640 0.4838	0.5159	0.4863	0.4886	Ave		0.4836				4.0		20.0			
m-Xylene & p-Xylene	0.5709 0.5980	0.5535 0.5943	0.6142	0.5959	0.5965	Ave		0.5890				3.4		20.0			
o-Xylene	0.5188 0.5706	0.5578 0.5579	0.5806	0.5638	0.5683	Ave		0.5597				3.5		20.0			
Styrene	0.8915 0.9829	0.9056 0.9730	1.0088	0.9699	0.9794	Ave		0.9588			0.3000	4.5		20.0			
Bromoform	0.2892 0.2933	0.2907 0.2979	0.3020	0.2847	0.2951	Ave		0.2933			0.1000	2.0		20.0			
Isopropylbenzene	1.3694 1.5447	1.4922 1.4942	1.5808	1.5060	1.5314	Ave		1.5027			0.1000	4.4		20.0			
1,1,2,2-Tetrachloroethane	0.7123 0.7674	0.7872 0.7661	0.8261	0.7624	0.7730	Ave		0.7706			0.3000	4.4		20.0			
Bromobenzene	0.7562 0.7639	0.7920 0.7473	0.8125	0.7532	0.7575	Ave		0.7690				3.1		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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								
1,2,3-Trichloropropane	0.2805 0.2866	0.2903 0.2882	0.3178	0.2884	0.2929	Ave		0.2921				4.1		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2667	0.2763 0.2751	0.2902	0.2665	0.2675	Ave		0.2737				3.3		20.0			
n-Propylbenzene	0.7009 0.7973	0.7492 0.7772	0.8251	0.7710	0.7894	Ave		0.7729				5.1		20.0			
2-Chlorotoluene	0.6131 0.6732	0.6212 0.6509	0.7079	0.6539	0.6587	Ave		0.6541				4.9		20.0			
1,3,5-Trimethylbenzene	2.1099 2.2883	2.1099 2.2183	2.3988	2.1936	2.2594	Ave		2.2255				4.6		20.0			
4-Chlorotoluene	0.7307 0.7048	0.6944 0.6840	0.7470	0.7010	0.6888	Ave		0.7072				3.3		20.0			
tert-Butylbenzene	1.9093 2.2037	2.0260 2.1009	2.2785	2.0983	2.1715	Ave		2.1126				5.7		20.0			
1,2,4-Trimethylbenzene	2.0996 2.3002	2.2590 2.2368	2.3762	2.2406	2.2826	Ave		2.2564				3.7		20.0			
sec-Butylbenzene	2.5921 3.0046	2.6994 2.8685	2.9965	2.8235	2.9285	Ave		2.8447				5.4		20.0			
1,3-Dichlorobenzene	1.4791 1.3933	1.5035 1.3394	1.4385	1.3676	1.3647	Ave		1.4123			0.6000	4.4		20.0			
p-Isopropyltoluene	2.2955 2.5970	2.3910 2.5362	2.6099	2.4625	2.5496	Ave		2.4917				4.6		20.0			
1,4-Dichlorobenzene	1.6054 1.4113	1.5675 1.3669	1.4816	1.3825	1.3984	Ave		1.4591			0.5000	6.5		20.0			
n-Butylbenzene	1.8944 2.1259	2.0232 2.0712	2.1091	2.0276	2.0953	Ave		2.0495				3.8		20.0			
1,2-Dichlorobenzene	1.3437 1.2534	1.3687 1.2318	1.3105	1.2348	1.2330	Ave		1.2823			0.4000	4.5		20.0			
1,2-Dibromo-3-Chloropropane	0.2630 0.2491	0.2219 0.2547	0.2430	0.2371	0.2465	Ave		0.2450			0.0500	5.4		20.0			
1,2,4-Trichlorobenzene	0.9409 0.8412	0.9494 0.8737	0.8099	0.7792	0.7909	Ave		0.8550			0.2000	8.1		20.0			
Hexachlorobutadiene	0.4751 0.4459	0.4859 0.4196	0.4201	0.4076	0.4202	Ave		0.4392				7.0		20.0			
Naphthalene	+++++ 2.4081	2.5248 2.5673	2.2519	2.1428	2.2829	Ave		2.3630				7.0		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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								
1,2,3-Trichlorobenzene	0.7893 0.7724	0.8277 0.8517	0.7383	0.6846	0.7103	Ave		0.7677				7.9		20.0			
Dibromofluoromethane (Surr)	0.2950 0.2630	0.2820 0.2531	0.2707	0.2587	0.2619	Ave		0.2692				5.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3515 0.2903	0.3408 0.2779	0.3137	0.2940	0.2963	Ave		0.3092				8.9		20.0			
Toluene-d8 (Surr)	1.2799 1.1805	1.2018 1.1653	1.2236	1.1594	1.1844	Ave		1.1993				3.5		20.0			
4-Bromofluorobenzene (Surr)	0.5295 0.4325	0.4716 0.4172	0.4467	0.4309	0.4307	Ave		0.4513				8.5		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-342719/13	U1901329.d
Level 2	STD8260 240-342719/12	U1901328.d
Level 3	STD8260 240-342719/11	U1901327.d
Level 4	ICIS 240-342719/10	U1901326.d
Level 5	STD8260 240-342719/9	U1901325.d
Level 6	STD8260 240-342719/8	U1901324.d
Level 7	STD8260 240-342719/7	U1901323.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
Dichlorodifluoromethane	FB	Ave	7625 1180992	18328 1552738	186223	366772	792590	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloromethane	FB	Ave	8152 829233	12972 1059365	134420	267203	546909	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Butadiene	FB	Ave	6713 847603	14115 1086231	141609	275330	552757	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl chloride	FB	Ave	6564 881108	14250 1135494	148037	286894	589426	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromomethane	FB	Ave	5934 669257	11360 864872	111689	219651	442826	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloroethane	FB	Ave	4812 533953	8387 696179	89838	172968	353502	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	11593 1308784	21694 1694878	223205	434465	878380	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	11587 1458414	23241 1894654	244417	483006	978643	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl ether	FB	Ave	4060 521372	9015 676475	88252	172224	350377	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acrolein	FB	Ave	5804 622965	10600 846753	100203	220720	417769	2.50 300	5.00 400	50.0	100	200
1,1-Dichloroethene	FB	Ave	8152 1061526	16498 1382045	177882	348307	706289	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	5847 770733	11240 1005400	126531	249289	512861	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acetone	FB	Ave	+++++ 433055	8941 564923	73077	146204	298968	+++++ 120	2.00 160	20.0	40.0	80.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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
Iodomethane	FB	Ave	11424 1332936	22471 1743886	225726	444884	888035	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon disulfide	FB	Ave	20511 2078244	39223 2698750	351356	683722	1372316	0.500 60.0	1.00 80.0	10.0	20.0	40.0
3-Chloro-1-propene	FB	Ave	8759 1011692	18227 1304832	171118	326833	662138	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl acetate	FB	Ave	12374 1276471	22480 1658043	228841	440913	886871	1.00 120	2.00 160	20.0	40.0	80.0
Methylene Chloride	FB	Ave	+++++ 797526	15126 1035294	139613	271471	534613	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
tert-Butyl alcohol	FB	Ave	7089 709594	13140 963916	135517	252801	542388	5.00 600	10.0 800	100	200	400
Acrylonitrile	FB	Ave	23600 2849701	49680 3654042	514757	950386	1951040	5.00 600	10.0 800	100	200	400
trans-1,2-Dichloroethene	FB	Ave	8368 967924	16818 1235776	167419	317885	639131	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl tert-butyl ether	FB	Ave	15146 2079947	33109 2755910	342568	653045	1349603	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexane	FB	Ave	7709 1056328	15276 1419117	174299	347875	704185	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	9092 1192355	19673 1533220	199597	387941	790957	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl acetate	FB	Ave	10910 1321142	21765 1777280	231586	445770	903595	0.500 60.0	1.00 80.0	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	7168 831715	14212 1069027	140685	272438	545012	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	5791 725393	11860 944363	116583	212094	491954	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Butanone	FB	Ave	2283 257675	4567 358198	48290	88909	181887	1.00 120	2.00 160	20.0	40.0	80.0
Bromochloromethane	FB	Ave	5503 530825	10266 658069	94139	175479	350082	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrahydrofuran	FB	Lin1	+++++ 566965	20056 753652	114720	199816	405539	+++++ 120	2.00 160	20.0	40.0	80.0
Chloroform	FB	Ave	10169 1282514	21044 1662428	224371	427697	863672	0.500 60.0	1.00 80.0	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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
1,1,1-Trichloroethane	FB	Ave	8767 1245609	19503 1637723	211997	398309	836381	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Cyclohexane	FB	Ave	8206 1159393	16696 1531667	188221	372006	776128	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	7998 1033663	16667 1344377	174842	337392	687882	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	8954 1199313	17959 1583649	201366	384700	807965	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	7140 731439	14010 985172	127213	263438	540692	12.5 1500	25.0 2000	250	500	1000
Benzene	FB	Ave	21738 2748682	45349 3599104	482300	917150	1843426	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	8896 1002994	18266 1294416	178638	341638	680627	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Heptane	FB	Lin1	+++++ 573367	39021 734621	123554	210893	401639	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Trichloroethene	FB	Ave	7819 909646	14636 1193487	156409	299123	608172	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	10042 1399000	20268 1805108	225444	445411	929492	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	5092 634222	10172 831616	112735	214790	433884	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromomethane	FB	Ave	5652 638964	11437 828119	111478	213090	428543	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 147508	1560 204613	20257	50489	108387	+++++ 1200	20.0 1600	200	400	800
Bromodichloromethane	FB	Ave	7972 997303	17242 1298324	172767	336655	670319	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	7473 1009556	15714 1404589	185460	353595	710198	1.00 120	2.00 160	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	8778 1113655	18371 1486992	192411	372198	757475	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Methyl-2-pentanone	FB	Ave	14774 1776570	29549 2416341	332777	627983	1267570	1.00 120	2.00 160	20.0	40.0	80.0
Toluene	CBNZ d5	Ave	25413	50838	544474	1040131	2085055	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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
			3039879	4036837				60.0	80.0			
trans-1,3-Dichloropropene	CBNZ d5	Ave	9232 1076004	18668 1466824	187797	363416	737016	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl methacrylate	CBNZ d5	Ave	7062 1006534	14839 1404401	177753	349427	711262	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloroethane	CBNZ d5	Ave	5186 644677	10462 861140	115489	219105	445968	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	7818 999011	15556 1317893	175104	332664	675866	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichloropropane	CBNZ d5	Ave	9211 1078694	17554 1456758	194537	366944	737142	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Hexanone	CBNZ d5	Ave	10272 1411899	22402 1965782	267096	508487	1016835	1.00 120	2.00 160	20.0	40.0	80.0
Dibromochloromethane	CBNZ d5	Ave	6108 836499	12969 1113195	145120	282195	568645	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromoethane	CBNZ d5	Ave	6962 733806	12317 982631	132926	257341	500324	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chlorobenzene	CBNZ d5	Ave	17303 2067581	36469 2721351	370702	704913	1418747	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	5956 771705	12290 1012040	135561	257026	524311	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethylbenzene	CBNZ d5	Ave	8431 1118678	17209 1476959	200390	380861	765441	0.500 60.0	1.00 80.0	10.0	20.0	40.0
m-Xylene & p-Xylene	CBNZ d5	Ave	10542	20530	238543	466651	934583	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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
			1365436	1814431				60.0	80.0			
o-Xylene	CBNZ d5	Ave	9580	20689	225509	441487	890297	0.500	1.00	10.0	20.0	40.0
			1302937	1703380				60.0	80.0			
Styrene	CBNZ d5	Ave	16463	33591	391834	759556	1534422	0.500	1.00	10.0	20.0	40.0
			2244503	2970527				60.0	80.0			
Bromoform	CBNZ d5	Ave	5340	10783	117306	222929	462320	0.500	1.00	10.0	20.0	40.0
			669771	909465				60.0	80.0			
Isopropylbenzene	CBNZ d5	Ave	25288	55346	613985	1179370	2399226	0.500	1.00	10.0	20.0	40.0
			3527221	4561888				60.0	80.0			
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	7218	16261	172140	328526	660294	0.500	1.00	10.0	20.0	40.0
			951258	1271933				60.0	80.0			
Bromobenzene	DCBd 4	Ave	7663	16361	169316	324573	647055	0.500	1.00	10.0	20.0	40.0
			946835	1240722				60.0	80.0			
1,2,3-Trichloropropane	DCBd 4	Ave	2842	5997	66218	124262	250203	0.500	1.00	10.0	20.0	40.0
			355186	478494				60.0	80.0			
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++	5707	60466	114842	228469	+++++	1.00	10.0	20.0	40.0
			330637	456736				60.0	80.0			
n-Propylbenzene	DCBd 4	Ave	7103	15476	171938	332244	674293	0.500	1.00	10.0	20.0	40.0
			988262	1290307				60.0	80.0			
2-Chlorotoluene	DCBd 4	Ave	6213	12831	147510	281753	562614	0.500	1.00	10.0	20.0	40.0
			834423	1080636				60.0	80.0			
1,3,5-Trimethylbenzene	DCBd 4	Ave	21381	43584	499875	945225	1929863	0.500	1.00	10.0	20.0	40.0
			2836427	3682951				60.0	80.0			
4-Chlorotoluene	DCBd 4	Ave	7405	14345	155656	302046	588358	0.500	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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
			873575	1135643				60.0	80.0			
tert-Butylbenzene	DCBd 4	Ave	19348 2731529	41850 3487952	474813	904165	1854784	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	21277 2851175	46663 3713592	495166	965487	1949684	0.500 60.0	1.00 80.0	10.0	20.0	40.0
sec-Butylbenzene	DCBd 4	Ave	26267 3724288	55760 4762339	624437	1216655	2501406	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichlorobenzene	DCBd 4	Ave	14989 1726981	31057 2223773	299776	589299	1165661	0.500 60.0	1.00 80.0	10.0	20.0	40.0
p-Isopropyltoluene	DCBd 4	Ave	23262 3219084	49391 4210777	543873	1061108	2177763	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dichlorobenzene	DCBd 4	Ave	16269 1749380	32379 2269476	308743	595729	1194426	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Butylbenzene	DCBd 4	Ave	19197 2635155	41792 3438646	439518	873706	1789693	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichlorobenzene	DCBd 4	Ave	13617 1553579	28272 2045057	273092	532075	1053180	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	2665 308798	4583 422865	50642	102189	210526	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	9535 1042664	19612 1450610	168774	335760	675526	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexachlorobutadiene	DCBd 4	Ave	4814 552719	10037 696652	87534	175651	358938	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Naphthalene	DCBd 4	Ave	+++++	52154	469280	923339	1949946	+++++	1.00	10.0	20.0	40.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

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
			2984863	4262332				60.0	80.0			
1,2,3-Trichlorobenzene	DCBd 4	Ave	7998 957428	17097 1414051	153843	295011	606712	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	6919 762443	13395 972724	129168	251584	512374	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	8242 841615	16187 1067780	149716	285917	579615	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Toluene-d8 (Surr)	CBNZ d5	Ave	23636 2695636	44577 3557725	475254	907923	1855495	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	9778 987516	17494 1273707	173480	337411	674745	0.500 60.0	1.00 80.0	10.0	20.0	40.0

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 342719

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2018 17:09 Calibration End Date: 08/27/2018 19:23 Calibration ID: 46687

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-342719/13	U1901329.d
Level 2	STD8260 240-342719/12	U1901328.d
Level 3	STD8260 240-342719/11	U1901327.d
Level 4	ICIS 240-342719/10	U1901326.d
Level 5	STD8260 240-342719/9	U1901325.d
Level 6	STD8260 240-342719/8	U1901324.d
Level 7	STD8260 240-342719/7	U1901323.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Tetrahydrofuran	+++++	-9.7						50				
n-Heptane	+++++	-4.5						50				

TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901323.d
Lims ID: std8260 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Aug-2018 17:09:10 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0079307-003
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 27-Aug-2018 21:27:48 Calib Date: 27-Aug-2018 19:23:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 27-Aug-2018 17:37:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	92	960659	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	82	763247	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	68	415062	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	63	972724	80.0	75.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.345	5.345	0.000	100	1067780	80.0	71.9	
$ 6 Toluene-d8 (Surr)	98	7.100	7.101	0.000	93	3557725	80.0	77.7	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	90	1273707	80.0	74.0	
9 Dichlorodifluoromethane	85	1.598	1.610	-0.012	88	1552738	80.0	84.0	
10 Chloromethane	50	1.811	1.812	-0.001	78	1059365	80.0	76.5	
12 Butadiene	54	1.894	1.906	-0.012	89	1086231	80.0	78.3	
11 Vinyl chloride	62	1.918	1.918	0.000	82	1135494	80.0	79.3	
13 Bromomethane	94	2.215	2.227	-0.013	84	864872	80.0	77.1	
14 Chloroethane	64	2.286	2.298	-0.012	86	696179	80.0	78.4	
15 Dichlorofluoromethane	67	2.499	2.499	0.000	83	1694878	80.0	77.0	
16 Trichlorofluoromethane	101	2.570	2.582	-0.012	87	1894654	80.0	79.1	
17 Ethyl ether	59	2.807	2.808	-0.001	88	676475	80.0	78.2	
18 Acrolein	56	2.926	2.926	0.000	91	846753	400.0	396.4	
21 1,1-Dichloroethene	61	3.033	3.045	-0.012	90	1382045	80.0	80.2	
20 1,1,2-Trichloro-1,2,2-trif	101	3.045	3.057	-0.012	78	1005400	80.0	81.5	
22 Acetone	43	3.068	3.069	-0.001	79	564923	160.0	150.0	
23 Iodomethane	142	3.187	3.199	-0.012	99	1743886	80.0	78.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Carbon disulfide	76	3.258	3.258	0.000	89	2698750	80.0	74.8	
26 3-Chloro-1-propene	41	3.353	3.365	-0.012	81	1304832	80.0	76.7	
27 Methyl acetate	43	3.377	3.377	0.000	96	1658043	160.0	148.3	
28 Methylene Chloride	49	3.483	3.495	-0.012	52	1035294	80.0	75.7	
29 2-Methyl-2-propanol	59	3.578	3.567	0.011	69	963916	800.0	741.0	
30 Acrylonitrile	53	3.685	3.685	0.000	98	3654042	800.0	756.5	
32 trans-1,2-Dichloroethene	61	3.721	3.721	0.000	79	1235776	80.0	76.0	
31 Methyl tert-butyl ether	73	3.732	3.733	-0.001	89	2755910	80.0	82.7	
33 Hexane	57	3.970	3.982	-0.012	93	1419117	80.0	83.8	
34 1,1-Dichloroethane	63	4.100	4.112	-0.012	85	1533220	80.0	78.9	
35 Vinyl acetate	43	4.147	4.148	-0.001	97	1777280	80.0	79.8	
40 cis-1,2-Dichloroethene	96	4.622	4.622	0.000	63	1069027	80.0	77.0	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	66	944363	80.0	80.7	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	96	358198	160.0	157.9	
45 Chlorobromomethane	49	4.835	4.836	-0.001	81	658069	80.0	70.4	
46 Tetrahydrofuran	42	4.883	4.883	0.000	83	753652	160.0	158.3	
47 Chloroform	83	4.906	4.907	-0.001	70	1662428	80.0	78.1	
48 1,1,1-Trichloroethane	97	5.084	5.085	-0.001	91	1637723	80.0	81.7	
49 Cyclohexane	84	5.144	5.144	0.000	75	1531667	80.0	83.5	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	89	1344377	80.0	79.5	
51 Carbon tetrachloride	117	5.238	5.239	-0.001	71	1583649	80.0	82.0	
52 Isobutyl alcohol	41	5.298	5.298	0.000	88	985172	2000.0	1867.6	
53 Benzene	78	5.404	5.417	-0.013	95	3599104	80.0	78.7	
54 1,2-Dichloroethane	62	5.416	5.417	-0.001	51	1294416	80.0	74.9	
56 n-Heptane	57	5.642	5.642	0.000	86	734621	80.0	78.7	
58 Trichloroethene	130	5.986	5.986	0.000	88	1193487	80.0	78.6	
60 Methylcyclohexane	83	6.175	6.176	-0.001	89	1805108	80.0	81.9	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	81	831616	80.0	78.4	
63 Dibromomethane	174	6.294	6.294	0.000	85	828119	80.0	75.9	
64 1,4-Dioxane	88	6.306	6.306	0.000	33	204613	1600.0	1782.8	
65 Dichlorobromomethane	83	6.424	6.436	-0.012	93	1298324	80.0	77.7	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	92	1404589	160.0	165.2	
68 cis-1,3-Dichloropropene	75	6.839	6.840	-0.001	91	1486992	80.0	80.1	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	83	2416341	160.0	157.0	
70 Toluene	91	7.171	7.172	-0.001	94	4036837	80.0	78.3	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	83	1466824	80.0	79.8	
72 Ethyl methacrylate	69	7.432	7.433	-0.001	87	1404401	80.0	84.7	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	84	861140	80.0	79.4	
75 Tetrachloroethene	166	7.693	7.693	0.000	93	1317893	80.0	80.1	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	89	1456758	80.0	79.5	
77 2-Hexanone	43	7.764	7.765	-0.001	79	1965782	160.0	163.6	
79 Chlorodibromomethane	129	7.930	7.919	0.011	87	1113195	80.0	81.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 Ethylene Dibromide	107	8.049	8.049	0.000	98	982631	80.0	76.9	
82 Chlorobenzene	112	8.523	8.524	-0.001	92	2721351	80.0	77.1	
83 1,1,1,2-Tetrachloroethane	131	8.606	8.607	-0.001	88	1012040	80.0	79.5	
84 Ethylbenzene	106	8.630	8.630	0.000	98	1476959	80.0	80.0	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	1814431	80.0	80.7	
86 o-Xylene	106	9.152	9.152	0.000	87	1703380	80.0	79.8	
87 Styrene	104	9.164	9.164	0.000	93	2970527	80.0	81.2	
88 Bromoform	173	9.353	9.354	-0.001	98	909465	80.0	81.3	
89 Isopropylbenzene	105	9.519	9.520	-0.001	95	4561888	80.0	79.6	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	84	1271933	80.0	79.5	
92 Bromobenzene	156	9.840	9.840	0.000	81	1240722	80.0	77.7	
93 1,2,3-Trichloropropane	110	9.863	9.864	-0.001	65	478494	80.0	78.9	
94 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	62	456736	80.0	80.4	
95 N-Propylbenzene	120	9.946	9.947	-0.001	92	1290307	80.0	80.4	
96 2-Chlorotoluene	126	10.041	10.041	0.000	97	1080636	80.0	79.6	
97 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	93	3682951	80.0	79.7	
98 4-Chlorotoluene	126	10.148	10.148	0.000	98	1135643	80.0	77.4	
99 tert-Butylbenzene	119	10.468	10.468	0.000	77	3487952	80.0	79.6	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	71	3713592	80.0	79.3	
102 sec-Butylbenzene	105	10.693	10.694	-0.001	94	4762339	80.0	80.7	
103 1,3-Dichlorobenzene	146	10.824	10.812	0.012	95	2223773	80.0	75.9	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	90	4210777	80.0	81.4	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	94	2269476	80.0	74.9	
108 n-Butylbenzene	91	11.286	11.287	-0.001	96	3438646	80.0	80.8	
109 1,2-Dichlorobenzene	146	11.310	11.298	0.012	98	2045057	80.0	76.9	
110 1,2-Dibromo-3-Chloropropan	157	12.128	12.129	-0.001	92	422865	80.0	83.2	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	93	1450610	80.0	81.7	
113 Hexachlorobutadiene	225	13.207	13.208	-0.001	88	696652	80.0	76.4	
114 Naphthalene	128	13.279	13.279	0.000	97	4262332	80.0	86.9	
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	94	1414051	80.0	88.7	
S 127 Trihalomethanes, Total	1				0		320.0	318.4	
S 164 Total BTEX	1				0		400.0	397.5	
S 124 1,2-Dichloroethene, Total	96				0			153.0	
S 125 1,3-Dichloropropene, Total	75				0			159.9	
S 126 Xylenes, Total	106				0		160.0	160.5	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmrgas_00259	Amount Added:	64.00	Units: uL
vmarolistdw_00260	Amount Added:	64.00	Units: uL
vmrprimw_00297	Amount Added:	64.00	Units: uL
vm50ss_00333	Amount Added:	64.00	Units: uL

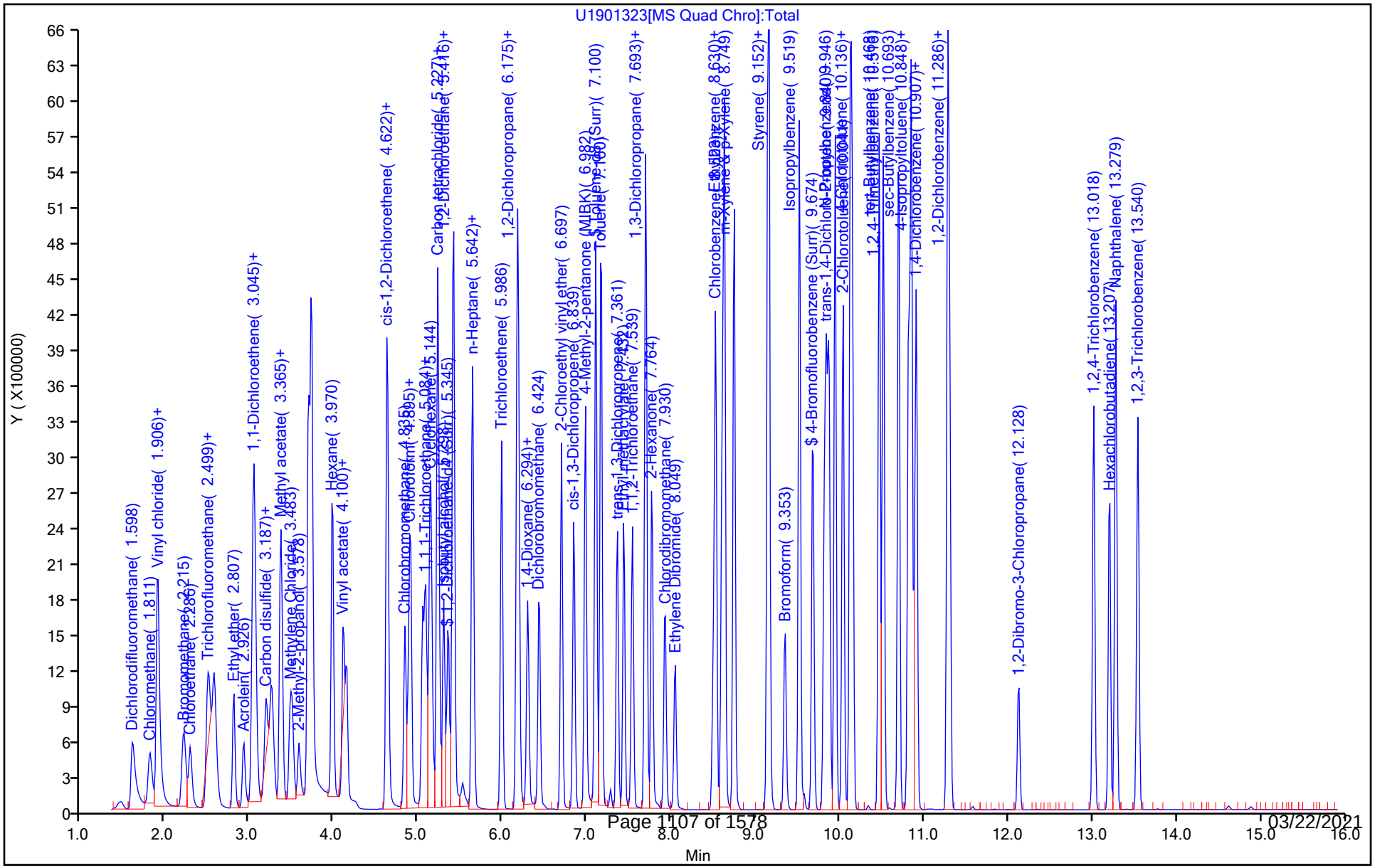
Report Date: 27-Aug-2018 21:27:50 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901323.d

Injection Date:	27-Aug-2018 17:09:10	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	std8260 L7			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901324.d
Lims ID: std8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Aug-2018 17:31:36 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0079307-004
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 27-Aug-2018 21:27:54 Calib Date: 27-Aug-2018 19:23:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 27-Aug-2018 18:08:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	92	966455	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	83	761160	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	74	413175	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	59	762443	60.0	58.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.345	0.012	99	841615	60.0	56.3	
$ 6 Toluene-d8 (Surr)	98	7.100	7.101	0.000	86	2695636	60.0	59.1	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	90	987516	60.0	57.5	
9 Dichlorodifluoromethane	85	1.610	1.610	0.000	80	1180992	60.0	63.5	
10 Chloromethane	50	1.823	1.812	0.011	77	829233	60.0	59.5	
12 Butadiene	54	1.906	1.906	0.000	88	847603	60.0	60.8	
11 Vinyl chloride	62	1.930	1.918	0.012	81	881108	60.0	61.2	
13 Bromomethane	94	2.226	2.227	-0.001	89	669257	60.0	59.3	
14 Chloroethane	64	2.298	2.298	0.000	94	533953	60.0	59.8	
15 Dichlorofluoromethane	67	2.511	2.499	0.012	82	1308784	60.0	59.1	
16 Trichlorofluoromethane	101	2.582	2.582	0.000	88	1458414	60.0	60.6	
17 Ethyl ether	59	2.807	2.808	-0.001	90	521372	60.0	59.9	
18 Acrolein	56	2.926	2.926	0.000	95	622965	300.0	289.9	
21 1,1-Dichloroethene	61	3.045	3.045	0.000	89	1061526	60.0	61.2	
20 1,1,2-Trichloro-1,2,2-trif	101	3.057	3.057	0.000	79	770733	60.0	62.1	
22 Acetone	43	3.068	3.069	-0.001	64	433055	120.0	114.3	
23 Iodomethane	142	3.199	3.199	0.000	99	1332936	60.0	59.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Carbon disulfide	76	3.258	3.258	0.000	99	2078244	60.0	57.2	
26 3-Chloro-1-propene	41	3.365	3.365	0.000	74	1011692	60.0	59.1	
27 Methyl acetate	43	3.377	3.377	0.000	96	1276471	120.0	113.5	
28 Methylene Chloride	49	3.483	3.495	-0.012	53	797526	60.0	58.0	
29 2-Methyl-2-propanol	59	3.578	3.567	0.011	86	709594	600.0	542.2	
30 Acrylonitrile	53	3.697	3.685	0.012	98	2849701	600.0	586.4	
32 trans-1,2-Dichloroethene	61	3.732	3.721	0.011	69	967924	60.0	59.1	
31 Methyl tert-butyl ether	73	3.732	3.733	-0.001	89	2079947	60.0	62.0	
33 Hexane	57	3.982	3.982	0.000	89	1056328	60.0	62.0	
34 1,1-Dichloroethane	63	4.112	4.112	0.000	85	1192355	60.0	61.0	
35 Vinyl acetate	43	4.148	4.148	0.000	97	1321142	60.0	58.9	
40 cis-1,2-Dichloroethene	96	4.622	4.622	0.000	63	831715	60.0	59.5	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	90	257675	120.0	112.9	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	62	725393	60.0	61.6	
45 Chlorobromomethane	49	4.835	4.836	-0.001	68	530825	60.0	56.5	
46 Tetrahydrofuran	42	4.883	4.883	0.000	85	566965	120.0	117.7	
47 Chloroform	83	4.906	4.907	-0.001	70	1282514	60.0	59.9	
48 1,1,1-Trichloroethane	97	5.084	5.085	-0.001	89	1245609	60.0	61.8	
49 Cyclohexane	84	5.144	5.144	0.000	85	1159393	60.0	62.8	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	91	1033663	60.0	60.8	
51 Carbon tetrachloride	117	5.239	5.239	0.000	70	1199313	60.0	61.7	
52 Isobutyl alcohol	41	5.298	5.298	0.000	82	731439	1500.0	1378.3	
54 1,2-Dichloroethane	62	5.416	5.417	-0.001	49	1002994	60.0	57.7	
53 Benzene	78	5.416	5.417	-0.001	94	2748682	60.0	59.8	
56 n-Heptane	57	5.642	5.642	0.000	87	573367	60.0	60.3	
58 Trichloroethene	130	5.986	5.986	0.000	93	909646	60.0	59.6	
60 Methylcyclohexane	83	6.175	6.176	-0.001	89	1399000	60.0	63.1	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	79	634222	60.0	59.5	
63 Dibromomethane	174	6.294	6.294	0.000	86	638964	60.0	58.2	
64 1,4-Dioxane	88	6.306	6.306	0.000	32	147508	1200.0	1277.5	
65 Dichlorobromomethane	83	6.436	6.436	0.000	94	997303	60.0	59.3	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	92	1009556	120.0	118.0	
68 cis-1,3-Dichloropropene	75	6.839	6.840	-0.001	93	1113655	60.0	59.6	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	82	1776570	120.0	114.8	
70 Toluene	91	7.171	7.172	-0.001	94	3039879	60.0	59.1	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	87	1076004	60.0	58.7	
72 Ethyl methacrylate	69	7.432	7.433	-0.001	88	1006534	60.0	60.9	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	84	644677	60.0	59.6	
75 Tetrachloroethene	166	7.693	7.693	0.000	93	999011	60.0	60.9	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	89	1078694	60.0	59.0	
77 2-Hexanone	43	7.764	7.765	-0.001	79	1411899	120.0	117.8	
79 Chlorodibromomethane	129	7.930	7.919	0.011	87	836499	60.0	61.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 Ethylene Dibromide	107	8.049	8.049	0.000	99	733806	60.0	57.6	
82 Chlorobenzene	112	8.523	8.524	-0.001	95	2067581	60.0	58.7	
83 1,1,1,2-Tetrachloroethane	131	8.606	8.607	-0.001	88	771705	60.0	60.8	
84 Ethylbenzene	106	8.630	8.630	0.000	98	1118678	60.0	60.8	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	1365436	60.0	60.9	
86 o-Xylene	106	9.152	9.152	0.000	87	1302937	60.0	61.2	
87 Styrene	104	9.152	9.164	-0.012	88	2244503	60.0	61.5	
88 Bromoform	173	9.353	9.354	-0.001	98	669771	60.0	60.0	
89 Isopropylbenzene	105	9.519	9.520	-0.001	95	3527221	60.0	61.7	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	84	951258	60.0	59.8	
92 Bromobenzene	156	9.840	9.840	0.000	87	946835	60.0	59.6	
93 1,2,3-Trichloropropane	110	9.863	9.864	-0.001	63	355186	60.0	58.9	
94 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	61	330637	60.0	58.5	
95 N-Propylbenzene	120	9.946	9.947	-0.001	91	988262	60.0	61.9	
96 2-Chlorotoluene	126	10.041	10.041	0.000	97	834423	60.0	61.7	
97 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	93	2836427	60.0	61.7	
98 4-Chlorotoluene	126	10.148	10.148	0.000	98	873575	60.0	59.8	
99 tert-Butylbenzene	119	10.468	10.468	0.000	77	2731529	60.0	62.6	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	70	2851175	60.0	61.2	
102 sec-Butylbenzene	105	10.693	10.694	-0.001	94	3724288	60.0	63.4	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	90	1726981	60.0	59.2	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	90	3219084	60.0	62.5	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	94	1749380	60.0	58.0	
108 n-Butylbenzene	91	11.275	11.287	-0.012	98	2635155	60.0	62.2	
109 1,2-Dichlorobenzene	146	11.298	11.298	0.000	97	1553579	60.0	58.6	
110 1,2-Dibromo-3-Chloropropan	157	12.128	12.129	-0.001	91	308798	60.0	61.0	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	92	1042664	60.0	59.0	
113 Hexachlorobutadiene	225	13.208	13.208	0.000	88	552719	60.0	60.9	
114 Naphthalene	128	13.279	13.279	0.000	96	2984863	60.0	61.1	
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	94	957428	60.0	60.4	
S 164 Total BTEX	1				0		300.0	301.7	
S 127 Trihalomethanes, Total	1				0		240.0	240.5	
S 124 1,2-Dichloroethene, Total	96				0			118.7	
S 125 1,3-Dichloropropene, Total	75				0			118.3	
S 126 Xylenes, Total	106				0		120.0	122.1	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmrgas_00259	Amount Added:	48.00	Units: uL
vmarolistdw_00260	Amount Added:	48.00	Units: uL
vmrprimw_00297	Amount Added:	48.00	Units: uL
vm50ss_00333	Amount Added:	48.00	Units: uL

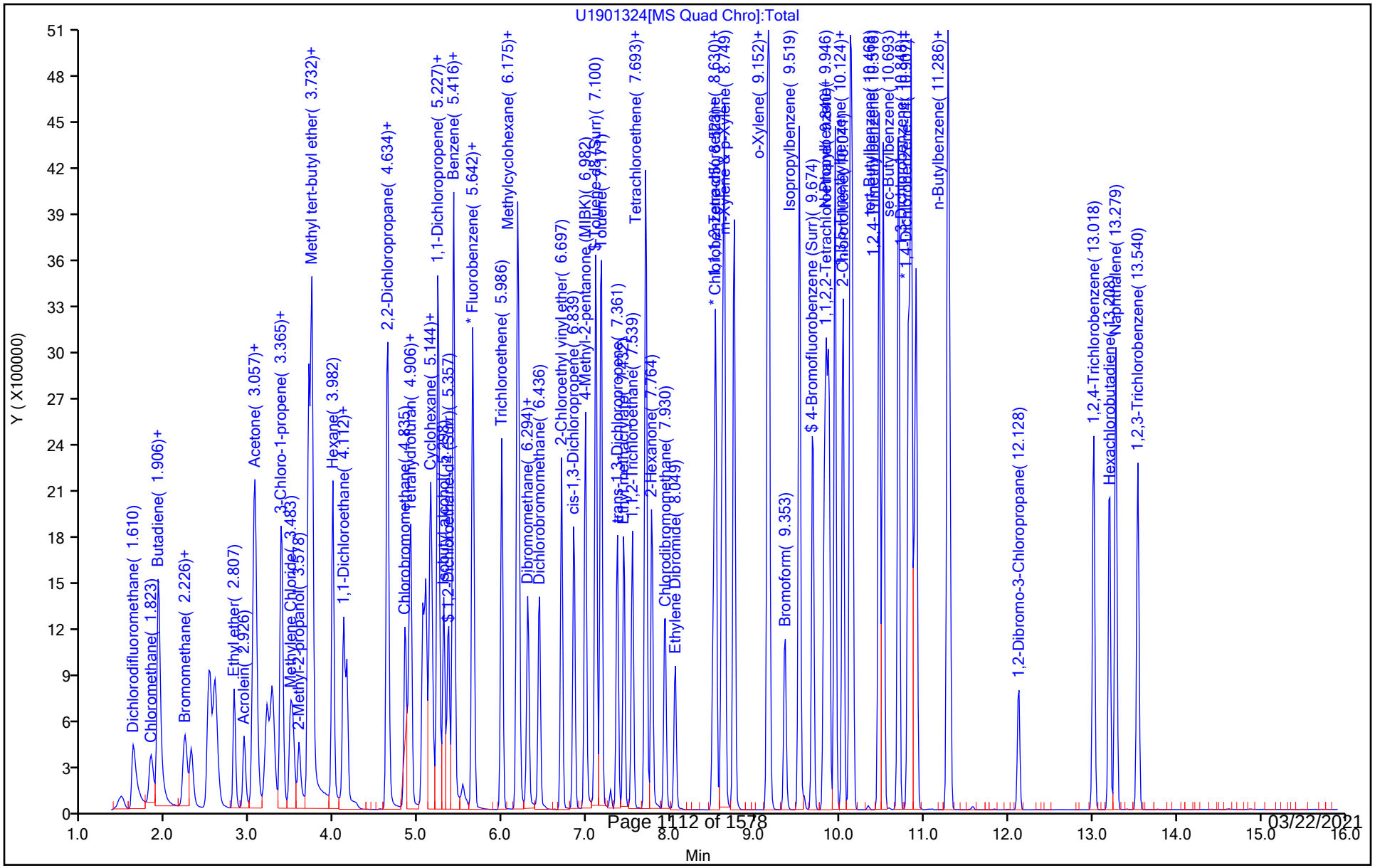
Report Date: 27-Aug-2018 21:27:59 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901324.d

Injection Date:	27-Aug-2018 17:31:36	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	std8260 L6			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901325.d
Lims ID: std8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Aug-2018 17:53:51 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0079307-009
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 27-Aug-2018 21:28:08 Calib Date: 27-Aug-2018 19:23:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 27-Aug-2018 18:49:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	95	978140	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	82	783329	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	75	427081	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	60	512374	40.0	38.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.345	5.345	0.000	100	579615	40.0	38.3	
$ 6 Toluene-d8 (Surr)	98	7.101	7.101	0.000	86	1855495	40.0	39.5	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	89	674745	40.0	38.2	
9 Dichlorodifluoromethane	85	1.598	1.610	-0.012	88	792590	40.0	42.1	
10 Chloromethane	50	1.812	1.812	0.000	78	546909	40.0	38.8	
12 Butadiene	54	1.895	1.906	-0.011	89	552757	40.0	39.2	
11 Vinyl chloride	62	1.918	1.918	0.000	83	589426	40.0	40.4	
13 Bromomethane	94	2.215	2.227	-0.012	85	442826	40.0	38.8	
14 Chloroethane	64	2.298	2.298	0.000	82	353502	40.0	39.1	
15 Dichlorofluoromethane	67	2.499	2.499	0.000	83	878380	40.0	39.2	
16 Trichlorofluoromethane	101	2.571	2.582	-0.012	87	978643	40.0	40.2	
17 Ethyl ether	59	2.808	2.808	0.000	88	350377	40.0	39.8	
18 Acrolein	56	2.926	2.926	0.000	95	417769	200.0	192.1	
21 1,1-Dichloroethene	61	3.033	3.045	-0.012	90	706289	40.0	40.2	
20 1,1,2-Trichloro-1,2,2-trif	101	3.045	3.057	-0.012	72	512861	40.0	40.8	
22 Acetone	43	3.069	3.069	0.000	82	298968	80.0	78.0	
23 Iodomethane	142	3.187	3.199	-0.012	99	888035	40.0	39.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Carbon disulfide	76	3.258	3.258	0.000	89	1372316	40.0	37.3	
26 3-Chloro-1-propene	41	3.353	3.365	-0.012	73	662138	40.0	38.2	
27 Methyl acetate	43	3.377	3.377	0.000	96	886871	80.0	77.9	
28 Methylene Chloride	49	3.484	3.495	-0.011	51	534613	40.0	38.4	
29 2-Methyl-2-propanol	59	3.578	3.567	0.011	69	542388	400.0	409.5	
30 Acrylonitrile	53	3.685	3.685	0.000	97	1951040	400.0	396.7	
32 trans-1,2-Dichloroethene	61	3.721	3.721	0.000	74	639131	40.0	38.6	
31 Methyl tert-butyl ether	73	3.733	3.733	0.000	87	1349603	40.0	39.8	
33 Hexane	57	3.982	3.982	0.000	92	704185	40.0	40.9	
34 1,1-Dichloroethane	63	4.100	4.112	-0.012	85	790957	40.0	40.0	
35 Vinyl acetate	43	4.148	4.148	0.000	97	903595	40.0	39.8	
40 cis-1,2-Dichloroethene	96	4.622	4.622	0.000	69	545012	40.0	38.6	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	66	491954	40.0	41.3	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	96	181887	80.0	78.7	
45 Chlorobromomethane	49	4.836	4.836	0.000	80	350082	40.0	36.8	
46 Tetrahydrofuran	42	4.883	4.883	0.000	84	405539	80.0	82.5	
47 Chloroform	83	4.907	4.907	0.000	68	863672	40.0	39.8	
48 1,1,1-Trichloroethane	97	5.085	5.085	0.000	90	836381	40.0	41.0	
49 Cyclohexane	84	5.144	5.144	0.000	75	776128	40.0	41.6	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	89	687882	40.0	40.0	
51 Carbon tetrachloride	117	5.239	5.239	0.000	70	807965	40.0	41.1	
52 Isobutyl alcohol	41	5.298	5.298	0.000	88	540692	1000.0	1006.7	
53 Benzene	78	5.405	5.417	-0.012	95	1843426	40.0	39.6	
54 1,2-Dichloroethane	62	5.417	5.417	0.000	51	680627	40.0	38.7	
56 n-Heptane	57	5.642	5.642	0.000	84	401639	40.0	40.7	
58 Trichloroethene	130	5.986	5.986	0.000	92	608172	40.0	39.4	
60 Methylcyclohexane	83	6.176	6.176	0.000	88	929492	40.0	41.4	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	80	433884	40.0	40.2	
63 Dibromomethane	174	6.294	6.294	0.000	86	428543	40.0	38.6	
64 1,4-Dioxane	88	6.306	6.306	0.000	35	108387	800.0	927.5	
65 Dichlorobromomethane	83	6.436	6.436	0.000	93	670319	40.0	39.4	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	92	710198	80.0	82.0	
68 cis-1,3-Dichloropropene	75	6.840	6.840	0.000	92	757475	40.0	40.1	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	82	1267570	80.0	80.9	
70 Toluene	91	7.172	7.172	0.000	95	2085055	40.0	39.4	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	83	737016	40.0	39.1	
72 Ethyl methacrylate	69	7.433	7.433	0.000	88	711262	40.0	41.8	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	84	445968	40.0	40.1	
75 Tetrachloroethene	166	7.693	7.693	0.000	92	675866	40.0	40.0	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	89	737142	40.0	39.2	
77 2-Hexanone	43	7.765	7.765	0.000	79	1016835	80.0	82.4	
79 Chlorodibromomethane	129	7.931	7.919	0.012	87	568645	40.0	40.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 Ethylene Dibromide	107	8.049	8.049	0.000	99	500324	40.0	38.2	
82 Chlorobenzene	112	8.524	8.524	0.000	97	1418747	40.0	39.1	
83 1,1,1,2-Tetrachloroethane	131	8.607	8.607	0.000	87	524311	40.0	40.1	
84 Ethylbenzene	106	8.630	8.630	0.000	98	765441	40.0	40.4	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	934583	40.0	40.5	
86 o-Xylene	106	9.152	9.152	0.000	87	890297	40.0	40.6	
87 Styrene	104	9.164	9.164	0.000	93	1534422	40.0	40.9	
88 Bromoform	173	9.354	9.354	0.000	98	462320	40.0	40.2	
89 Isopropylbenzene	105	9.520	9.520	0.000	96	2399226	40.0	40.8	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	88	660294	40.0	40.1	
92 Bromobenzene	156	9.840	9.840	0.000	81	647055	40.0	39.4	
93 1,2,3-Trichloropropane	110	9.864	9.864	0.000	70	250203	40.0	40.1	
94 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	61	228469	40.0	39.1	
95 N-Propylbenzene	120	9.947	9.947	0.000	91	674293	40.0	40.9	
96 2-Chlorotoluene	126	10.041	10.041	0.000	97	562614	40.0	40.3	
97 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	93	1929863	40.0	40.6	
98 4-Chlorotoluene	126	10.148	10.148	0.000	98	588358	40.0	39.0	
99 tert-Butylbenzene	119	10.468	10.468	0.000	77	1854784	40.0	41.1	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	70	1949684	40.0	40.5	
102 sec-Butylbenzene	105	10.694	10.694	0.000	94	2501406	40.0	41.2	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	90	1165661	40.0	38.7	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	91	2177763	40.0	40.9	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	94	1194426	40.0	38.3	
108 n-Butylbenzene	91	11.287	11.287	0.000	97	1789693	40.0	40.9	
109 1,2-Dichlorobenzene	146	11.298	11.298	0.000	96	1053180	40.0	38.5	
110 1,2-Dibromo-3-Chloropropan	157	12.129	12.129	0.000	92	210526	40.0	40.2	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	91	675526	40.0	37.0	
113 Hexachlorobutadiene	225	13.208	13.208	0.000	88	358938	40.0	38.3	
114 Naphthalene	128	13.279	13.279	0.000	96	1949946	40.0	38.6	
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	93	606712	40.0	37.0	
S 127 Trihalomethanes, Total	1				0		160.0	160.0	
S 164 Total BTEX	1				0		200.0	200.5	
S 124 1,2-Dichloroethene, Total	96				0			77.1	
S 125 1,3-Dichloropropene, Total	75				0			79.1	
S 126 Xylenes, Total	106				0		80.0	81.1	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmrgas_00259	Amount Added:	32.00	Units: uL
vmarolistdw_00260	Amount Added:	32.00	Units: uL
vmrprimw_00297	Amount Added:	32.00	Units: uL
vm50ss_00333	Amount Added:	32.00	Units: uL

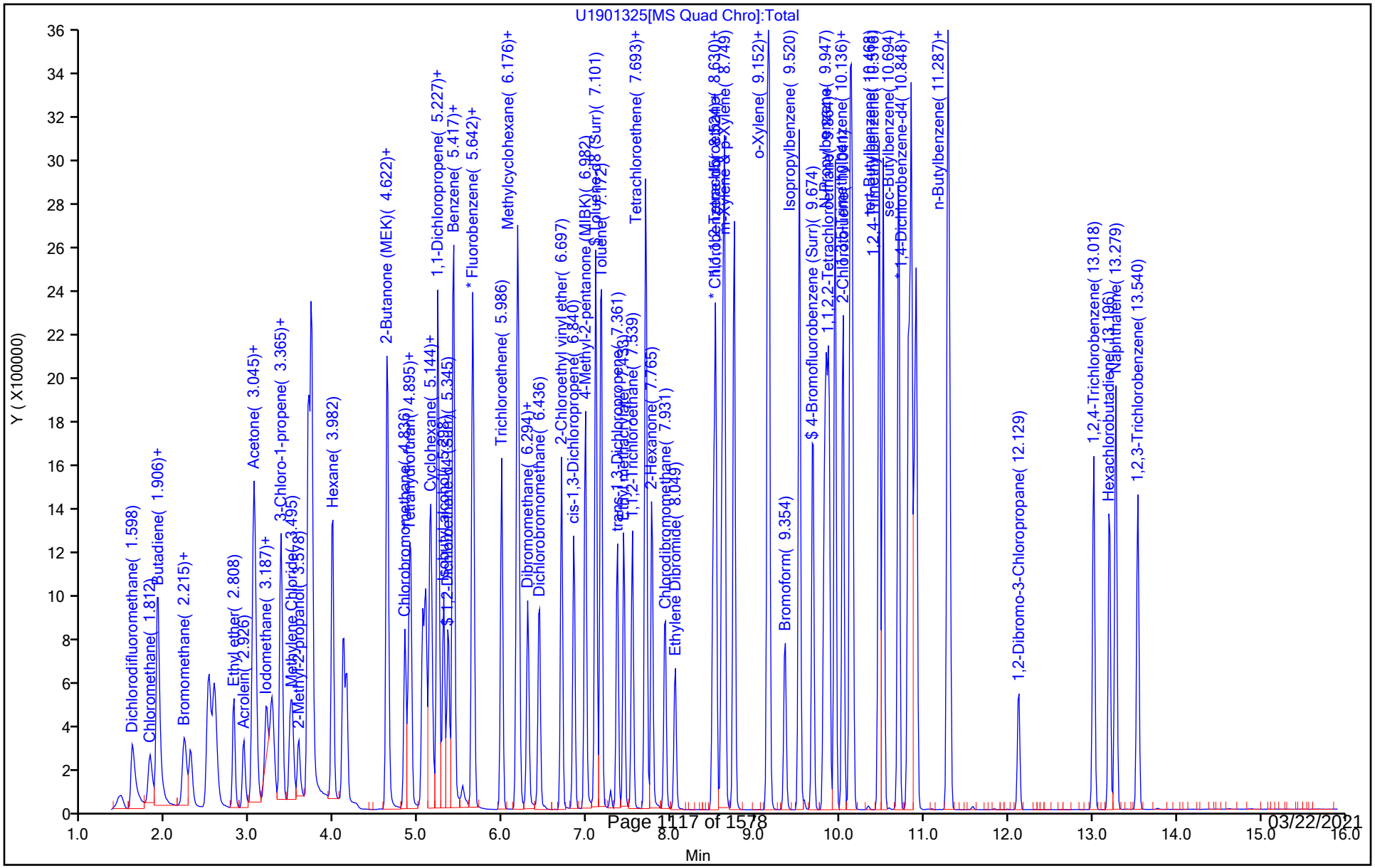
Report Date: 27-Aug-2018 21:28:11 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901325.d

Injection Date:	27-Aug-2018 17:53:51	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	std8260 L5			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901326.d
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 27-Aug-2018 18:16:31 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0079307-010
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 27-Aug-2018 21:28:20 Calib Date: 27-Aug-2018 19:23:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 27-Aug-2018 18:47:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	97	972482	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	83	783101	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	86	430906	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	59	251584	20.0	19.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.345	5.345	0.000	99	285917	20.0	19.0	
$ 6 Toluene-d8 (Surr)	98	7.101	7.101	0.000	86	907923	20.0	19.3	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	90	337411	20.0	19.1	
9 Dichlorodifluoromethane	85	1.610	1.610	0.000	66	366772	20.0	19.6	
10 Chloromethane	50	1.812	1.812	0.000	77	267203	20.0	19.1	
12 Butadiene	54	1.906	1.906	0.000	88	275330	20.0	19.6	
11 Vinyl chloride	62	1.918	1.918	0.000	70	286894	20.0	19.8	
13 Bromomethane	94	2.227	2.227	0.000	90	219651	20.0	19.3	
14 Chloroethane	64	2.298	2.298	0.000	95	172968	20.0	19.2	
15 Dichlorofluoromethane	67	2.499	2.499	0.000	83	434465	20.0	19.5	
16 Trichlorofluoromethane	101	2.582	2.582	0.000	86	483006	20.0	19.9	
17 Ethyl ether	59	2.808	2.808	0.000	88	172224	20.0	19.7	
18 Acrolein	56	2.926	2.926	0.000	95	220720	100.0	102.1	
21 1,1-Dichloroethene	61	3.045	3.045	0.000	89	348307	20.0	20.0	
20 1,1,2-Trichloro-1,2,2-trif	101	3.057	3.057	0.000	80	249289	20.0	20.0	
22 Acetone	43	3.069	3.069	0.000	68	146204	40.0	38.3	
23 Iodomethane	142	3.199	3.199	0.000	99	444884	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Carbon disulfide	76	3.258	3.258	0.000	99	683722	20.0	18.7	
26 3-Chloro-1-propene	41	3.365	3.365	0.000	80	326833	20.0	19.0	
27 Methyl acetate	43	3.377	3.377	0.000	96	440913	40.0	39.0	
28 Methylene Chloride	49	3.495	3.495	0.000	55	271471	20.0	19.6	
29 2-Methyl-2-propanol	59	3.567	3.567	0.000	51	252801	200.0	192.0	
30 Acrylonitrile	53	3.685	3.685	0.000	98	950386	200.0	194.4	
32 trans-1,2-Dichloroethene	61	3.721	3.721	0.000	72	317885	20.0	19.3	
31 Methyl tert-butyl ether	73	3.733	3.733	0.000	78	653045	20.0	19.4	
33 Hexane	57	3.982	3.982	0.000	91	347875	20.0	20.3	
34 1,1-Dichloroethane	63	4.112	4.112	0.000	85	387941	20.0	19.7	
35 Vinyl acetate	43	4.148	4.148	0.000	97	445770	20.0	19.8	
40 cis-1,2-Dichloroethene	96	4.622	4.622	0.000	69	272438	20.0	19.4	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	95	88909	40.0	38.7	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	63	212094	20.0	17.9	
45 Chlorobromomethane	49	4.836	4.836	0.000	81	175479	20.0	18.6	
46 Tetrahydrofuran	42	4.883	4.883	0.000	84	199816	40.0	39.6	
47 Chloroform	83	4.907	4.907	0.000	70	427697	20.0	19.8	
48 1,1,1-Trichloroethane	97	5.085	5.085	0.000	89	398309	20.0	19.6	
49 Cyclohexane	84	5.144	5.144	0.000	75	372006	20.0	20.0	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	90	337392	20.0	19.7	
51 Carbon tetrachloride	117	5.239	5.239	0.000	70	384700	20.0	19.7	
52 Isobutyl alcohol	41	5.298	5.298	0.000	88	263438	500.0	493.3	
54 1,2-Dichloroethane	62	5.417	5.417	0.000	51	341638	20.0	19.5	
53 Benzene	78	5.417	5.417	0.000	94	917150	20.0	19.8	
56 n-Heptane	57	5.642	5.642	0.000	76	210893	20.0	19.9	
58 Trichloroethene	130	5.986	5.986	0.000	92	299123	20.0	19.5	
60 Methylcyclohexane	83	6.176	6.176	0.000	88	445411	20.0	20.0	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	81	214790	20.0	20.0	
63 Dibromomethane	174	6.294	6.294	0.000	87	213090	20.0	19.3	
64 1,4-Dioxane	88	6.306	6.306	0.000	35	50489	400.0	434.6	
65 Dichlorobromomethane	83	6.436	6.436	0.000	93	336655	20.0	19.9	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	93	353595	40.0	41.1	
68 cis-1,3-Dichloropropene	75	6.840	6.840	0.000	92	372198	20.0	19.8	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	83	627983	40.0	40.3	
70 Toluene	91	7.172	7.172	0.000	94	1040131	20.0	19.7	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	85	363416	20.0	19.3	
72 Ethyl methacrylate	69	7.433	7.433	0.000	88	349427	20.0	20.5	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	86	219105	20.0	19.7	
75 Tetrachloroethene	166	7.693	7.693	0.000	92	332664	20.0	19.7	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	82	366944	20.0	19.5	
77 2-Hexanone	43	7.765	7.765	0.000	80	508487	40.0	41.2	
79 Chlorodibromomethane	129	7.919	7.919	0.000	89	282195	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 Ethylene Dibromide	107	8.049	8.049	0.000	98	257341	20.0	19.6	
82 Chlorobenzene	112	8.524	8.524	0.000	97	704913	20.0	19.5	
83 1,1,1,2-Tetrachloroethane	131	8.607	8.607	0.000	87	257026	20.0	19.7	
84 Ethylbenzene	106	8.630	8.630	0.000	98	380861	20.0	20.1	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	466651	20.0	20.2	
86 o-Xylene	106	9.152	9.152	0.000	87	441487	20.0	20.1	
87 Styrene	104	9.164	9.164	0.000	93	759556	20.0	20.2	
88 Bromoform	173	9.354	9.354	0.000	98	222929	20.0	19.4	
89 Isopropylbenzene	105	9.520	9.520	0.000	95	1179370	20.0	20.0	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	88	328526	20.0	19.8	
92 Bromobenzene	156	9.840	9.840	0.000	88	324573	20.0	19.6	
93 1,2,3-Trichloropropane	110	9.864	9.864	0.000	71	124262	20.0	19.7	
94 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	65	114842	20.0	19.5	
95 N-Propylbenzene	120	9.947	9.947	0.000	96	332244	20.0	20.0	
96 2-Chlorotoluene	126	10.041	10.041	0.000	96	281753	20.0	20.0	
97 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	93	945225	20.0	19.7	
98 4-Chlorotoluene	126	10.148	10.148	0.000	98	302046	20.0	19.8	
99 tert-Butylbenzene	119	10.468	10.468	0.000	78	904165	20.0	19.9	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	72	965487	20.0	19.9	
102 sec-Butylbenzene	105	10.694	10.694	0.000	94	1216655	20.0	19.9	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	84	589299	20.0	19.4	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	90	1061108	20.0	19.8	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	92	595729	20.0	19.0	
108 n-Butylbenzene	91	11.287	11.287	0.000	96	873706	20.0	19.8	
109 1,2-Dichlorobenzene	146	11.298	11.298	0.000	97	532075	20.0	19.3	
110 1,2-Dibromo-3-Chloropropan	157	12.129	12.129	0.000	91	102189	20.0	19.4	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	92	335760	20.0	18.2	
113 Hexachlorobutadiene	225	13.208	13.208	0.000	88	175651	20.0	18.6	
114 Naphthalene	128	13.279	13.279	0.000	96	923339	20.0	18.1	
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	92	295011	20.0	17.8	
S 164 Total BTEX	1				0		100.0	100.0	
S 127 Trihalomethanes, Total	1				0		80.0	79.3	
S 126 Xylenes, Total	106				0		40.0	40.4	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmrgas_00259	Amount Added:	16.00	Units: uL
vmarolistdw_00260	Amount Added:	16.00	Units: uL
vmrprimw_00297	Amount Added:	16.00	Units: uL
vm50ss_00333	Amount Added:	16.00	Units: uL

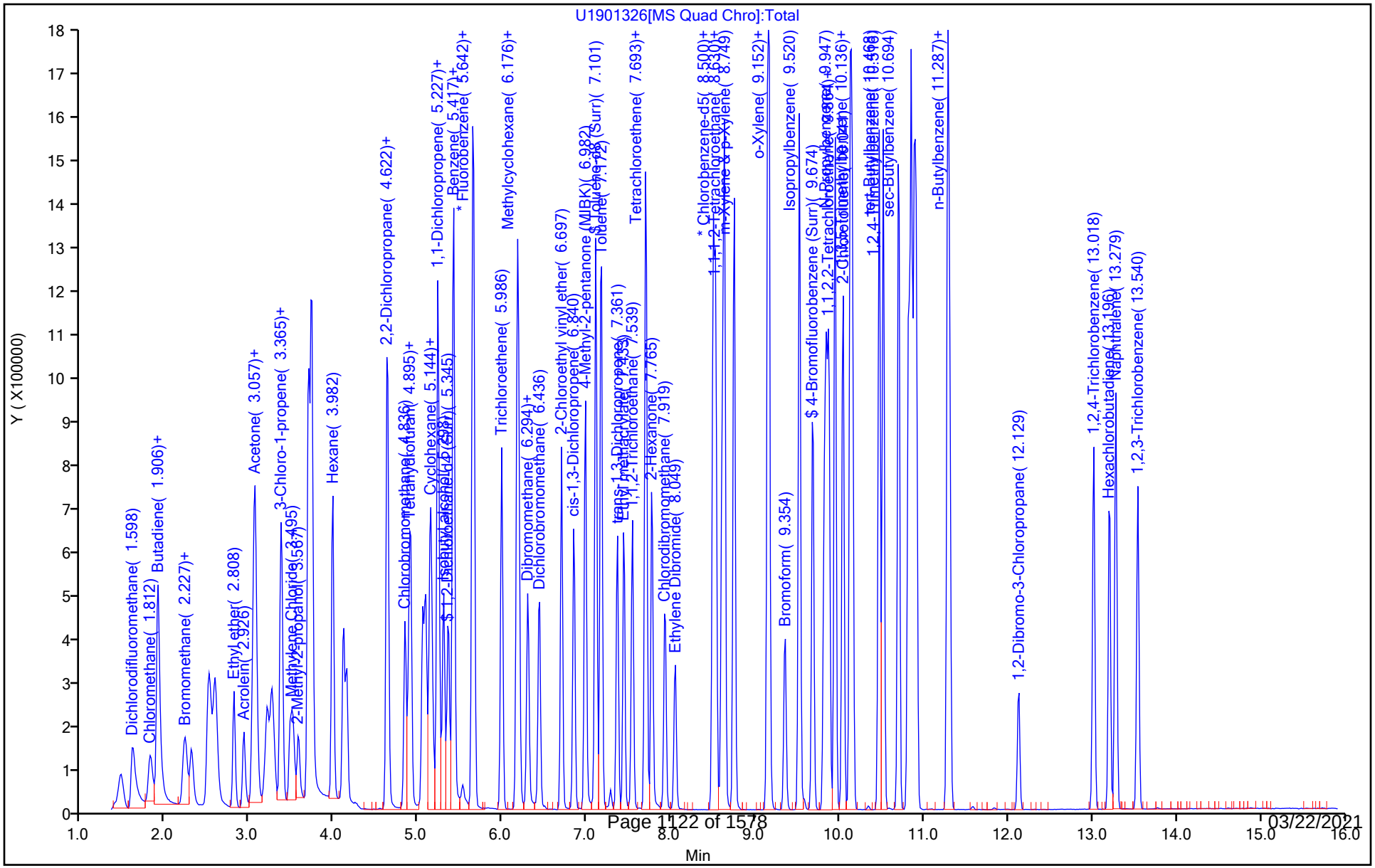
Report Date: 27-Aug-2018 21:28:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901326.d

Injection Date:	27-Aug-2018 18:16:31	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	ICIS L4			Worklist Smp#:	10
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901327.d
Lims ID: std8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Aug-2018 18:38:57 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 27-Aug-2018 21:28:30 Calib Date: 27-Aug-2018 19:23:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 27-Aug-2018 19:29:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	97	954461	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	83	776799	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	92	416777	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	59	129168	10.0	10.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.345	0.012	99	149716	10.0	10.1	
$ 6 Toluene-d8 (Surr)	98	7.101	7.101	0.001	86	475254	10.0	10.2	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	89	173480	10.0	9.90	
9 Dichlorodifluoromethane	85	1.610	1.610	0.000	66	186223	10.0	10.1	
10 Chloromethane	50	1.823	1.812	0.011	81	134420	10.0	9.77	
12 Butadiene	54	1.906	1.906	0.000	90	141609	10.0	10.3	
11 Vinyl chloride	62	1.930	1.918	0.012	82	148037	10.0	10.4	
13 Bromomethane	94	2.227	2.227	0.000	90	111689	10.0	10.0	
14 Chloroethane	64	2.310	2.298	0.012	94	89838	10.0	10.2	
15 Dichlorofluoromethane	67	2.511	2.499	0.012	83	223205	10.0	10.2	
16 Trichlorofluoromethane	101	2.582	2.582	0.000	86	244417	10.0	10.3	
17 Ethyl ether	59	2.808	2.808	0.000	90	88252	10.0	10.3	
18 Acrolein	56	2.926	2.926	0.000	96	100203	50.0	47.2	
21 1,1-Dichloroethene	61	3.045	3.045	0.000	90	177882	10.0	10.4	
20 1,1,2-Trichloro-1,2,2-trif	101	3.057	3.057	0.000	78	126531	10.0	10.3	
22 Acetone	43	3.069	3.069	0.000	71	73077	20.0	19.5	
23 Iodomethane	142	3.199	3.199	0.000	99	225726	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Carbon disulfide	76	3.270	3.258	0.012	98	351356	10.0	9.80	
26 3-Chloro-1-propene	41	3.365	3.365	0.000	76	171118	10.0	10.1	
27 Methyl acetate	43	3.377	3.377	0.000	95	228841	20.0	20.6	
28 Methylene Chloride	49	3.484	3.495	-0.011	73	139613	10.0	10.3	
29 2-Methyl-2-propanol	59	3.579	3.567	0.012	89	135517	100.0	104.9	
30 Acrylonitrile	53	3.697	3.685	0.012	98	514757	100.0	107.3	
32 trans-1,2-Dichloroethene	61	3.733	3.721	0.012	68	167419	10.0	10.4	
31 Methyl tert-butyl ether	73	3.733	3.733	0.000	89	342568	10.0	10.3	
33 Hexane	57	3.982	3.982	0.000	93	174299	10.0	10.4	
34 1,1-Dichloroethane	63	4.112	4.112	0.000	85	199597	10.0	10.3	
35 Vinyl acetate	43	4.148	4.148	0.000	97	231586	10.0	10.5	
40 cis-1,2-Dichloroethene	96	4.634	4.622	0.012	68	140685	10.0	10.2	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	61	116583	10.0	10.0	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	92	48290	20.0	21.4	
45 Chlorobromomethane	49	4.836	4.836	0.000	68	94139	10.0	10.1	
46 Tetrahydrofuran	42	4.883	4.883	0.000	84	114720	20.0	22.1	
47 Chloroform	83	4.907	4.907	0.000	71	224371	10.0	10.6	
48 1,1,1-Trichloroethane	97	5.085	5.085	0.000	90	211997	10.0	10.6	
49 Cyclohexane	84	5.144	5.144	0.000	86	188221	10.0	10.3	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	92	174842	10.0	10.4	
51 Carbon tetrachloride	117	5.239	5.239	0.000	70	201366	10.0	10.5	
52 Isobutyl alcohol	41	5.298	5.298	0.000	68	127213	250.0	242.7	
53 Benzene	78	5.417	5.417	0.000	94	482300	10.0	10.6	
54 1,2-Dichloroethane	62	5.417	5.417	0.000	48	178638	10.0	10.4	
56 n-Heptane	57	5.642	5.642	0.000	64	123554	10.0	10.5	
58 Trichloroethene	130	5.986	5.986	0.000	92	156409	10.0	10.4	
60 Methylcyclohexane	83	6.176	6.176	0.000	87	225444	10.0	10.3	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	78	112735	10.0	10.7	
63 Dibromomethane	174	6.306	6.294	0.012	81	111478	10.0	10.3	
64 1,4-Dioxane	88	6.306	6.306	0.000	24	20257	200.0	177.6	
65 Dichlorobromomethane	83	6.436	6.436	0.000	93	172767	10.0	10.4	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	93	185460	20.0	22.0	
68 cis-1,3-Dichloropropene	75	6.840	6.840	0.000	93	192411	10.0	10.4	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	83	332777	20.0	21.8	
70 Toluene	91	7.172	7.172	0.000	95	544474	10.0	10.4	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	80	187797	10.0	10.0	
72 Ethyl methacrylate	69	7.433	7.433	0.000	88	177753	10.0	10.5	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	87	115489	10.0	10.5	
75 Tetrachloroethene	166	7.693	7.693	0.000	91	175104	10.0	10.5	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	89	194537	10.0	10.4	
77 2-Hexanone	43	7.765	7.765	0.000	79	267096	20.0	21.8	
79 Chlorodibromomethane	129	7.931	7.919	0.012	88	145120	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 Ethylene Dibromide	107	8.049	8.049	0.000	97	132926	10.0	10.2	
82 Chlorobenzene	112	8.524	8.524	0.000	96	370702	10.0	10.3	
83 1,1,1,2-Tetrachloroethane	131	8.607	8.607	0.000	88	135561	10.0	10.5	
84 Ethylbenzene	106	8.630	8.630	0.000	98	200390	10.0	10.7	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	238543	10.0	10.4	
86 o-Xylene	106	9.152	9.152	0.000	88	225509	10.0	10.4	
87 Styrene	104	9.164	9.164	0.000	93	391834	10.0	10.5	
88 Bromoform	173	9.354	9.354	0.000	98	117306	10.0	10.3	
89 Isopropylbenzene	105	9.520	9.520	0.000	96	613985	10.0	10.5	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	90	172140	10.0	10.7	
92 Bromobenzene	156	9.840	9.840	0.000	88	169316	10.0	10.6	
93 1,2,3-Trichloropropane	110	9.864	9.864	0.000	71	66218	10.0	10.9	
94 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	63	60466	10.0	10.6	
95 N-Propylbenzene	120	9.947	9.947	0.000	90	171938	10.0	10.7	
96 2-Chlorotoluene	126	10.042	10.041	0.001	97	147510	10.0	10.8	
97 1,3,5-Trimethylbenzene	105	10.125	10.124	0.000	93	499875	10.0	10.8	
98 4-Chlorotoluene	126	10.148	10.148	0.000	98	155656	10.0	10.6	
99 tert-Butylbenzene	119	10.468	10.468	0.000	78	474813	10.0	10.8	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	72	495166	10.0	10.5	
102 sec-Butylbenzene	105	10.694	10.694	0.000	94	624437	10.0	10.5	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	83	299776	10.0	10.2	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	90	543873	10.0	10.5	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	90	308743	10.0	10.2	
108 n-Butylbenzene	91	11.287	11.287	0.000	96	439518	10.0	10.3	
109 1,2-Dichlorobenzene	146	11.299	11.298	0.001	97	273092	10.0	10.2	
110 1,2-Dibromo-3-Chloropropan	157	12.129	12.129	0.000	89	50642	10.0	9.92	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	93	168774	10.0	9.47	
113 Hexachlorobutadiene	225	13.208	13.208	0.000	90	87534	10.0	9.56	
114 Naphthalene	128	13.279	13.279	0.000	97	469280	10.0	9.53	
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	95	153843	10.0	9.62	
S 127 Trihalomethanes, Total	1				0		40.0	41.7	
S 164 Total BTEX	1				0		50.0	52.5	
S 124 1,2-Dichloroethene, Total	96				0			20.6	
S 125 1,3-Dichloropropene, Total	75				0			20.5	
S 126 Xylenes, Total	106				0		20.0	20.8	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmrgas_00259	Amount Added:	8.00	Units: uL
vmarolistdw_00260	Amount Added:	8.00	Units: uL
vmrprimw_00297	Amount Added:	8.00	Units: uL
vm50ss_00333	Amount Added:	8.00	Units: uL

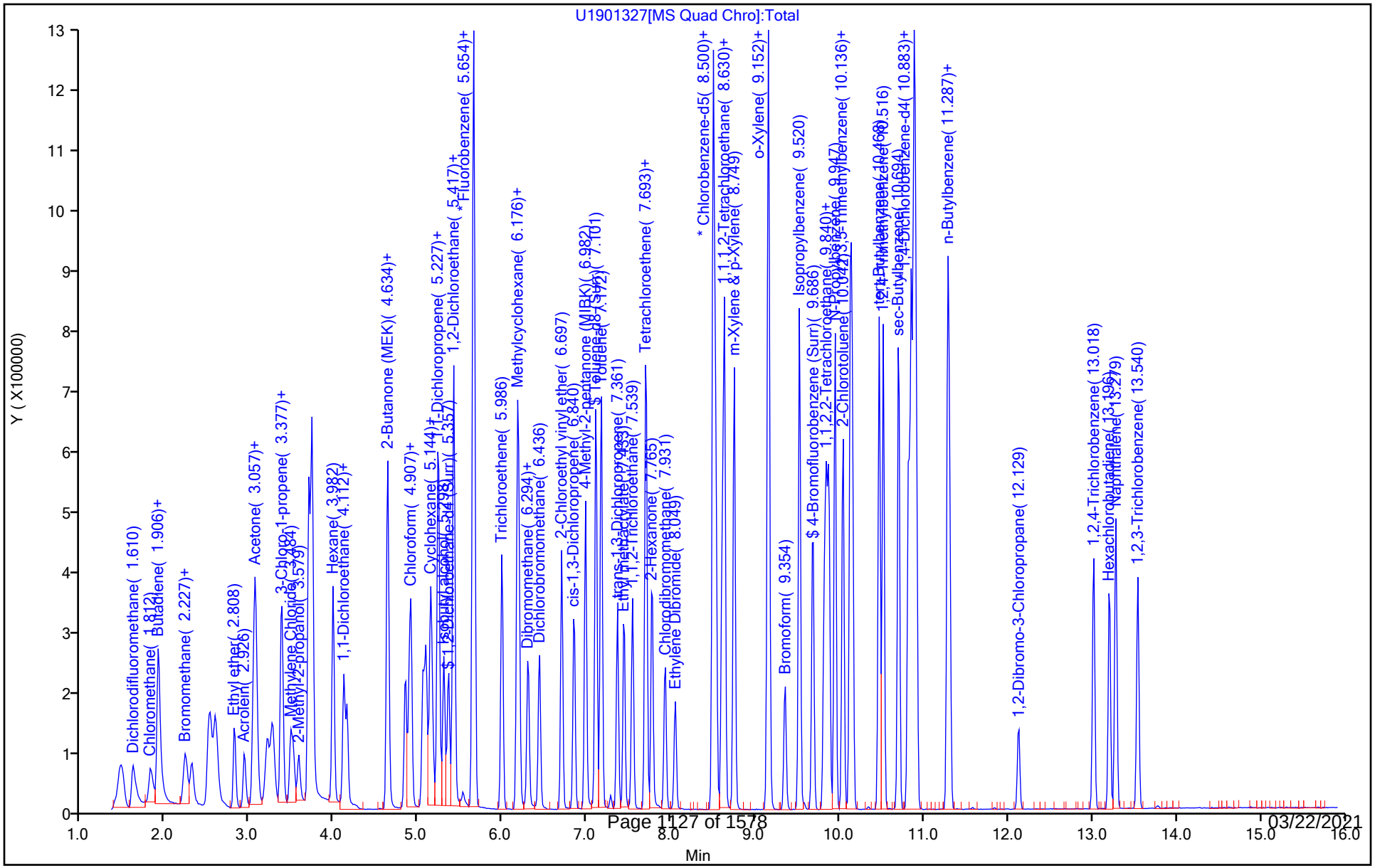
Report Date: 27-Aug-2018 21:28:34 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901327.d

Injection Date:	27-Aug-2018 18:38:57	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	std8260 L3			Worklist Smp#:	11
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901328.d
Lims ID: std8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Aug-2018 19:01:13 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 27-Aug-2018 21:28:42 Calib Date: 27-Aug-2018 19:23:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 27-Aug-2018 19:32:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.653	5.654	-0.001	99	950066	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	83	741822	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	93	413134	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	60	13395	1.00	1.05	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.345	5.345	0.000	98	16187	1.00	1.10	
$ 6 Toluene-d8 (Surr)	98	7.100	7.101	0.000	84	44577	1.00	1.00	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	85	17494	1.00	1.05	
9 Dichlorodifluoromethane	85	1.598	1.610	-0.012	61	18328	1.00	1.00	
10 Chloromethane	50	1.811	1.812	-0.001	83	12972	1.00	0.9471	
12 Butadiene	54	1.894	1.906	-0.012	89	14115	1.00	1.03	
11 Vinyl chloride	62	1.918	1.918	0.000	47	14250	1.00	1.01	
13 Bromomethane	94	2.238	2.227	0.011	86	11360	1.00	1.02	
14 Chloroethane	64	2.297	2.298	-0.001	81	8387	1.00	0.9552	
15 Dichlorofluoromethane	67	2.511	2.499	0.012	76	21694	1.00	1.00	
16 Trichlorofluoromethane	101	2.582	2.582	0.000	84	23241	1.00	0.9817	
17 Ethyl ether	59	2.807	2.808	-0.001	83	9015	1.00	1.05	
18 Acrolein	56	2.926	2.926	0.000	86	10600	5.00	5.02	
21 1,1-Dichloroethene	61	3.045	3.045	0.000	86	16498	1.00	0.9676	
20 1,1,2-Trichloro-1,2,2-trif	101	3.045	3.057	-0.012	67	11240	1.00	0.9217	
22 Acetone	43	3.068	3.069	-0.001	90	8941	2.00	2.40	
23 Iodomethane	142	3.187	3.199	-0.012	96	22471	1.00	1.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Carbon disulfide	76	3.258	3.258	0.000	97	39223	1.00	1.10	
26 3-Chloro-1-propene	41	3.365	3.365	0.000	76	18227	1.00	1.08	
27 Methyl acetate	43	3.377	3.377	0.000	96	22480	2.00	2.03	
28 Methylene Chloride	49	3.483	3.495	-0.012	78	15126	1.00	1.12	
29 2-Methyl-2-propanol	59	3.566	3.567	-0.001	88	13140	10.0	10.2	
30 Acrylonitrile	53	3.697	3.685	0.012	99	49680	10.0	10.4	
32 trans-1,2-Dichloroethene	61	3.732	3.721	0.011	72	16818	1.00	1.05	
31 Methyl tert-butyl ether	73	3.732	3.733	-0.001	89	33109	1.00	1.00	
33 Hexane	57	3.981	3.982	-0.001	93	15276	1.00	0.9125	
34 1,1-Dichloroethane	63	4.112	4.112	0.000	76	19673	1.00	1.02	
35 Vinyl acetate	43	4.147	4.148	-0.001	96	21765	1.00	0.9877	
40 cis-1,2-Dichloroethene	96	4.622	4.622	0.000	70	14212	1.00	1.03	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	91	4567	2.00	2.04	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	58	11860	1.00	1.02	
45 Chlorobromomethane	49	4.835	4.836	-0.001	64	10266	1.00	1.11	
46 Tetrahydrofuran	42	4.883	4.883	0.000	85	20056	2.00	1.81	
47 Chloroform	83	4.906	4.907	-0.001	67	21044	1.00	1.00	
48 1,1,1-Trichloroethane	97	5.084	5.085	-0.001	84	19503	1.00	0.9837	
49 Cyclohexane	84	5.144	5.144	0.000	85	16696	1.00	0.9202	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	88	16667	1.00	1.00	
51 Carbon tetrachloride	117	5.238	5.239	-0.001	77	17959	1.00	0.9397	
52 Isobutyl alcohol	41	5.298	5.298	0.000	78	14010	25.0	26.9	
54 1,2-Dichloroethane	62	5.416	5.417	-0.001	52	18266	1.00	1.07	
53 Benzene	78	5.416	5.417	-0.001	95	45349	1.00	1.00	
56 n-Heptane	57	5.653	5.642	0.011	38	39021	1.00	0.9553	
58 Trichloroethene	130	5.985	5.986	-0.001	90	14636	1.00	0.9750	
60 Methylcyclohexane	83	6.175	6.176	-0.001	87	20268	1.00	0.9296	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	78	10172	1.00	0.9700	
63 Dibromomethane	174	6.294	6.294	0.000	83	11437	1.00	1.06	
64 1,4-Dioxane	88	6.306	6.306	0.000	1	1560	20.0	13.7	
65 Dichlorobromomethane	83	6.424	6.436	-0.012	86	17242	1.00	1.04	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	90	15714	2.00	1.87	
68 cis-1,3-Dichloropropene	75	6.839	6.840	-0.001	72	18371	1.00	1.00	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	81	29549	2.00	1.94	
70 Toluene	91	7.171	7.172	-0.001	86	50838	1.00	1.01	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	79	18668	1.00	1.04	
72 Ethyl methacrylate	69	7.432	7.433	-0.001	70	14839	1.00	0.9209	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	87	10462	1.00	0.99	
75 Tetrachloroethene	166	7.693	7.693	0.000	95	15556	1.00	0.9725	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	79	17554	1.00	0.9855	
77 2-Hexanone	43	7.764	7.765	-0.001	94	22402	2.00	1.92	
79 Chlorodibromomethane	129	7.930	7.919	0.011	80	12969	1.00	0.9758	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 Ethylene Dibromide	107	8.049	8.049	0.000	85	12317	1.00	0.99	
82 Chlorobenzene	112	8.523	8.524	-0.001	60	36469	1.00	1.06	
83 1,1,1,2-Tetrachloroethane	131	8.606	8.607	-0.001	75	12290	1.00	0.99	
84 Ethylbenzene	106	8.630	8.630	0.000	97	17209	1.00	0.9594	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	20530	1.00	0.9397	
86 o-Xylene	106	9.152	9.152	0.000	87	20689	1.00	1.00	
87 Styrene	104	9.164	9.164	0.000	92	33591	1.00	0.9446	
88 Bromoform	173	9.353	9.354	-0.001	89	10783	1.00	0.99	
89 Isopropylbenzene	105	9.519	9.520	-0.001	93	55346	1.00	0.99	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	75	16261	1.00	1.02	
92 Bromobenzene	156	9.840	9.840	0.000	89	16361	1.00	1.03	
93 1,2,3-Trichloropropane	110	9.863	9.864	-0.001	66	5997	1.00	0.99	
94 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	38	5707	1.00	1.01	
95 N-Propylbenzene	120	9.946	9.947	-0.001	95	15476	1.00	0.9694	
96 2-Chlorotoluene	126	10.041	10.041	0.000	92	12831	1.00	0.9496	
97 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	91	43584	1.00	0.9481	
98 4-Chlorotoluene	126	10.148	10.148	0.000	97	14345	1.00	0.9819	
99 tert-Butylbenzene	119	10.468	10.468	0.000	73	41850	1.00	0.9590	
101 1,2,4-Trimethylbenzene	105	10.515	10.516	-0.001	67	46663	1.00	1.00	
102 sec-Butylbenzene	105	10.693	10.694	-0.001	92	55760	1.00	0.9489	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	11	31057	1.00	1.06	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	77	49391	1.00	0.9596	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	49	32379	1.00	1.07	
108 n-Butylbenzene	91	11.286	11.287	-0.001	95	41792	1.00	0.9871	
109 1,2-Dichlorobenzene	146	11.310	11.298	0.012	93	28272	1.00	1.07	
110 1,2-Dibromo-3-Chloropropan	157	12.128	12.129	-0.001	57	4583	1.00	0.9054	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	83	19612	1.00	1.11	
113 Hexachlorobutadiene	225	13.207	13.208	-0.001	72	10037	1.00	1.11	
114 Naphthalene	128	13.279	13.279	0.000	94	52154	1.00	1.07	
115 1,2,3-Trichlorobenzene	180	13.539	13.540	-0.001	86	17097	1.00	1.08	
S 164 Total BTEX	1				0		5.00	4.91	
S 127 Trihalomethanes, Total	1				0		4.00	4.01	
S 124 1,2-Dichloroethene, Total	96				0			2.08	
S 125 1,3-Dichloropropene, Total	75				0			2.05	
S 126 Xylenes, Total	106				0		2.00	1.94	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmrgas_00259	Amount Added:	0.80	Units: uL
vmarolistdw_00260	Amount Added:	0.80	Units: uL
vmrprimw_00297	Amount Added:	0.80	Units: uL
vm50ss_00333	Amount Added:	0.80	Units: uL

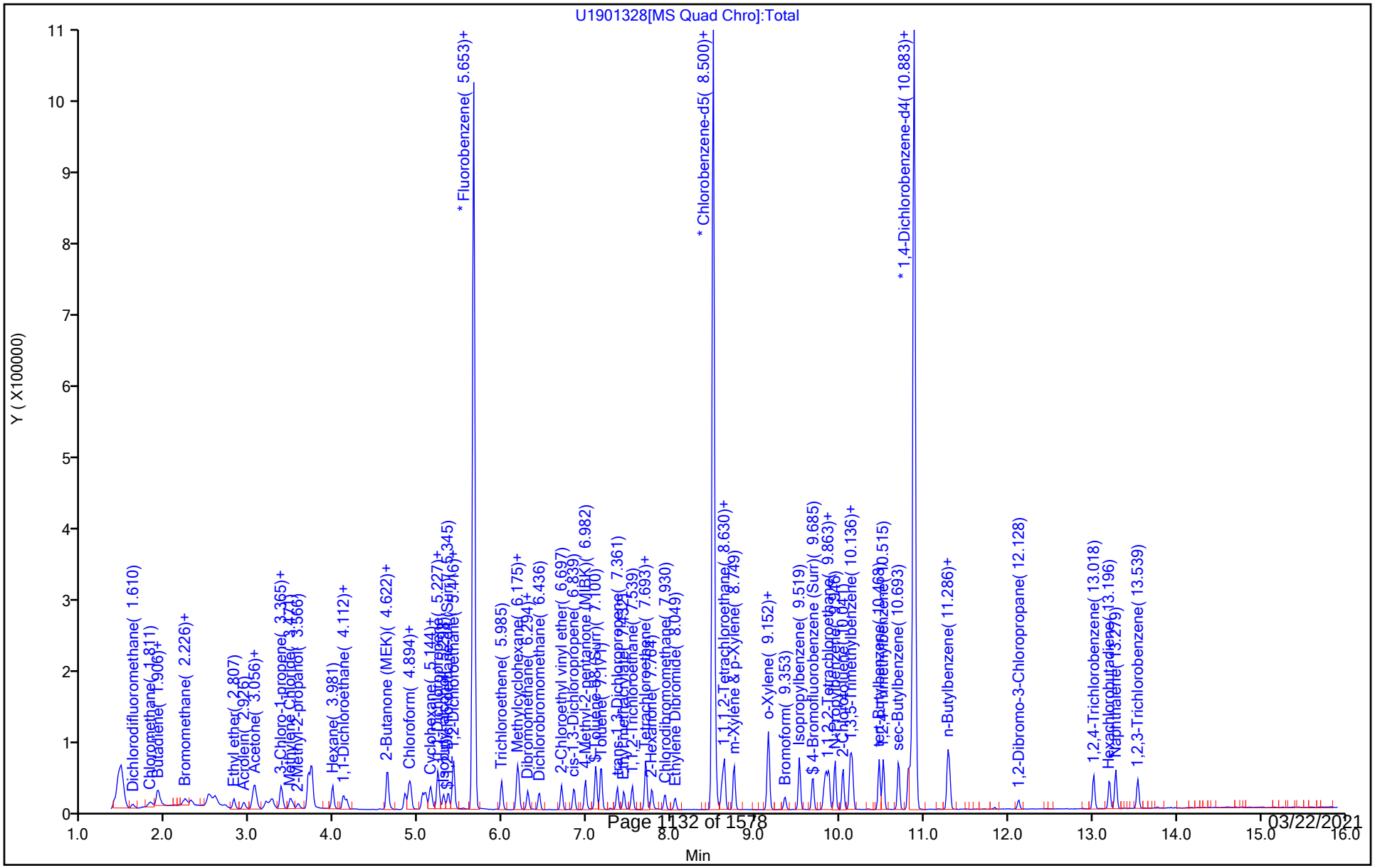
Report Date: 27-Aug-2018 21:28:46 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901328.d

Injection Date:	27-Aug-2018 19:01:13	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	std8260 L2			Worklist Smp#:	12
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d
Lims ID: std8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Aug-2018 19:23:28 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 27-Aug-2018 21:28:54 Calib Date: 27-Aug-2018 19:23:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: laveyt Date: 27-Aug-2018 19:52:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	99	938021	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	83	738667	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	93	405345	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	56	6919	0.5000	0.5480	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.345	0.012	94	8242	0.5000	0.5683	
$ 6 Toluene-d8 (Surr)	98	7.100	7.101	0.000	74	23636	0.5000	0.5336	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	82	9778	0.5000	0.5866	
9 Dichlorodifluoromethane	85	1.622	1.610	0.012	56	7625	0.5000	0.4223	
10 Chloromethane	50	1.812	1.812	0.000	70	8152	0.5000	0.6028	
12 Butadiene	54	1.906	1.906	0.000	92	6713	0.5000	0.4958	
11 Vinyl chloride	62	1.942	1.918	0.024	39	6564	0.5000	0.4697	
13 Bromomethane	94	2.227	2.227	0.000	83	5934	0.5000	0.5419	
14 Chloroethane	64	2.310	2.298	0.012	73	4812	0.5000	0.5551	
15 Dichlorofluoromethane	67	2.511	2.499	0.012	55	11593	0.5000	0.5395	
16 Trichlorofluoromethane	101	2.582	2.582	0.000	76	11587	0.5000	0.4957	
17 Ethyl ether	59	2.808	2.808	0.000	84	4060	0.5000	0.4810	
18 Acrolein	56	2.938	2.926	0.012	73	5804	2.50	2.78	
21 1,1-Dichloroethene	61	3.045	3.045	0.000	72	8152	0.5000	0.4842	
20 1,1,2-Trichloro-1,2,2-trif	101	3.057	3.057	0.000	55	5847	0.5000	0.4856	
22 Acetone	43		3.069				ND	ND	U
23 Iodomethane	142	3.199	3.199	0.000	93	11424	0.5000	0.5233	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Carbon disulfide	76	3.258	3.258	0.000	95	20511	0.5000	0.5820	
26 3-Chloro-1-propene	41	3.365	3.365	0.000	70	8759	0.5000	0.5274	
27 Methyl acetate	43	3.389	3.377	0.012	94	12374	1.00	1.13	
28 Methylene Chloride	49		3.495				ND	ND	U
29 2-Methyl-2-propanol	59	3.578	3.567	0.011	76	7089	5.00	5.58	
30 Acrylonitrile	53	3.697	3.685	0.012	98	23600	5.00	5.00	
32 trans-1,2-Dichloroethene	61	3.733	3.721	0.012	68	8368	0.5000	0.5268	
31 Methyl tert-butyl ether	73	3.733	3.733	0.000	83	15146	0.5000	0.4655	
33 Hexane	57	3.982	3.982	0.000	81	7709	0.5000	0.4664	
34 1,1-Dichloroethane	63	4.112	4.112	0.000	57	9092	0.5000	0.4789	
35 Vinyl acetate	43	4.148	4.148	0.000	96	10910	0.5000	0.5015	
40 cis-1,2-Dichloroethene	96	4.634	4.622	0.012	63	7168	0.5000	0.5287	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	48	5791	0.5000	0.5065	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	82	2283	1.00	1.03	
45 Chlorobromomethane	49	4.847	4.836	0.011	57	5503	0.5000	0.6031	
46 Tetrahydrofuran	42		4.883				ND	ND	U
47 Chloroform	83	4.907	4.907	0.000	71	10169	0.5000	0.4891	
48 1,1,1-Trichloroethane	97	5.085	5.085	0.000	78	8767	0.5000	0.4479	
49 Cyclohexane	84	5.144	5.144	0.000	85	8206	0.5000	0.4581	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	80	7998	0.5000	0.4846	
51 Carbon tetrachloride	117	5.239	5.239	0.000	77	8954	0.5000	0.4745	
52 Isobutyl alcohol	41	5.298	5.298	0.000	52	7140	12.5	13.9	
53 Benzene	78	5.417	5.417	0.000	95	21738	0.5000	0.4870	
54 1,2-Dichloroethane	62	5.428	5.417	0.011	58	8896	0.5000	0.5268	
56 n-Heptane	57		5.642				ND	ND	U
58 Trichloroethene	130	5.986	5.986	0.000	77	7819	0.5000	0.5276	
60 Methylcyclohexane	83	6.176	6.176	0.000	85	10042	0.5000	0.4665	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	64	5092	0.5000	0.4918	
63 Dibromomethane	174	6.306	6.294	0.012	66	5652	0.5000	0.5307	
64 1,4-Dioxane	88		6.306				ND	ND	U
65 Dichlorobromomethane	83	6.436	6.436	0.000	75	7972	0.5000	0.4885	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	83	7473	1.00	0.9000	
68 cis-1,3-Dichloropropene	75	6.840	6.840	0.000	60	8778	0.5000	0.4843	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	90	14774	1.00	0.9834	
70 Toluene	91	7.172	7.172	0.000	94	25413	0.5000	0.5091	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	76	9232	0.5000	0.5188	
72 Ethyl methacrylate	69	7.433	7.433	0.000	70	7062	0.5000	0.4401	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	79	5186	0.5000	0.4942	
75 Tetrachloroethene	166	7.693	7.693	0.000	86	7818	0.5000	0.4908	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	72	9211	0.5000	0.5193	
77 2-Hexanone	43	7.765	7.765	0.000	88	10272	1.00	0.8832	
79 Chlorodibromomethane	129	7.931	7.919	0.012	54	6108	0.5000	0.4615	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 Ethylene Dibromide	107	8.049	8.049	0.000	74	6962	0.5000	0.5633	
82 Chlorobenzene	112	8.524	8.524	0.000	45	17303	0.5000	0.5063	
83 1,1,1,2-Tetrachloroethane	131	8.607	8.607	0.000	55	5956	0.5000	0.4834	
84 Ethylbenzene	106	8.630	8.630	0.000	94	8431	0.5000	0.4721	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	96	10542	0.5000	0.4846	
86 o-Xylene	106	9.140	9.152	-0.012	88	9580	0.5000	0.4635	
87 Styrene	104	9.164	9.164	0.000	83	16463	0.5000	0.4649	
88 Bromoform	173	9.354	9.354	0.000	77	5340	0.5000	0.4930	
89 Isopropylbenzene	105	9.520	9.520	0.000	90	25288	0.5000	0.4556	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	62	7218	0.5000	0.4621	
92 Bromobenzene	156	9.840	9.840	0.000	88	7663	0.5000	0.4917	
93 1,2,3-Trichloropropane	110	9.864	9.864	0.000	66	2842	0.5000	0.4801	
94 trans-1,4-Dichloro-2-buten	53		9.875				ND	ND	U
95 N-Propylbenzene	120	9.947	9.947	0.000	91	7103	0.5000	0.4535	
96 2-Chlorotoluene	126	10.041	10.041	0.000	82	6213	0.5000	0.4687	
97 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	91	21381	0.5000	0.4740	
98 4-Chlorotoluene	126	10.148	10.148	0.000	91	7405	0.5000	0.5166	
99 tert-Butylbenzene	119	10.468	10.468	0.000	70	19348	0.5000	0.4519	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	63	21277	0.5000	0.4653	
102 sec-Butylbenzene	105	10.694	10.694	0.000	88	26267	0.5000	0.4556	
103 1,3-Dichlorobenzene	146	10.824	10.812	0.012	1	14989	0.5000	0.5237	a
104 4-Isopropyltoluene	119	10.848	10.848	0.000	68	23262	0.5000	0.4606	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	39	16269	0.5000	0.5502	
108 n-Butylbenzene	91	11.287	11.287	0.000	91	19197	0.5000	0.4622	
109 1,2-Dichlorobenzene	146	11.298	11.298	0.000	87	13617	0.5000	0.5240	
110 1,2-Dibromo-3-Chloropropan	157	12.129	12.129	0.000	31	2665	0.5000	0.5366	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	63	9535	0.5000	0.5502	
113 Hexachlorobutadiene	225	13.208	13.208	0.000	55	4814	0.5000	0.5408	
114 Naphthalene	128		13.279				ND	ND	U
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	72	7998	0.5000	0.5140	
S 127 Trihalomethanes, Total	1				0		2.00	1.93	
S 164 Total BTEX	1				0		2.50	2.42	
S 124 1,2-Dichloroethene, Total	96				0			1.06	
S 125 1,3-Dichloropropene, Total	75				0			1.00	
S 126 Xylenes, Total	106				0		1.00	0.9480	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmrgas_00259	Amount Added:	0.40	Units: uL
vmarolistdw_00260	Amount Added:	0.40	Units: uL
vmrprimw_00297	Amount Added:	0.40	Units: uL
vm50ss_00333	Amount Added:	0.40	Units: uL

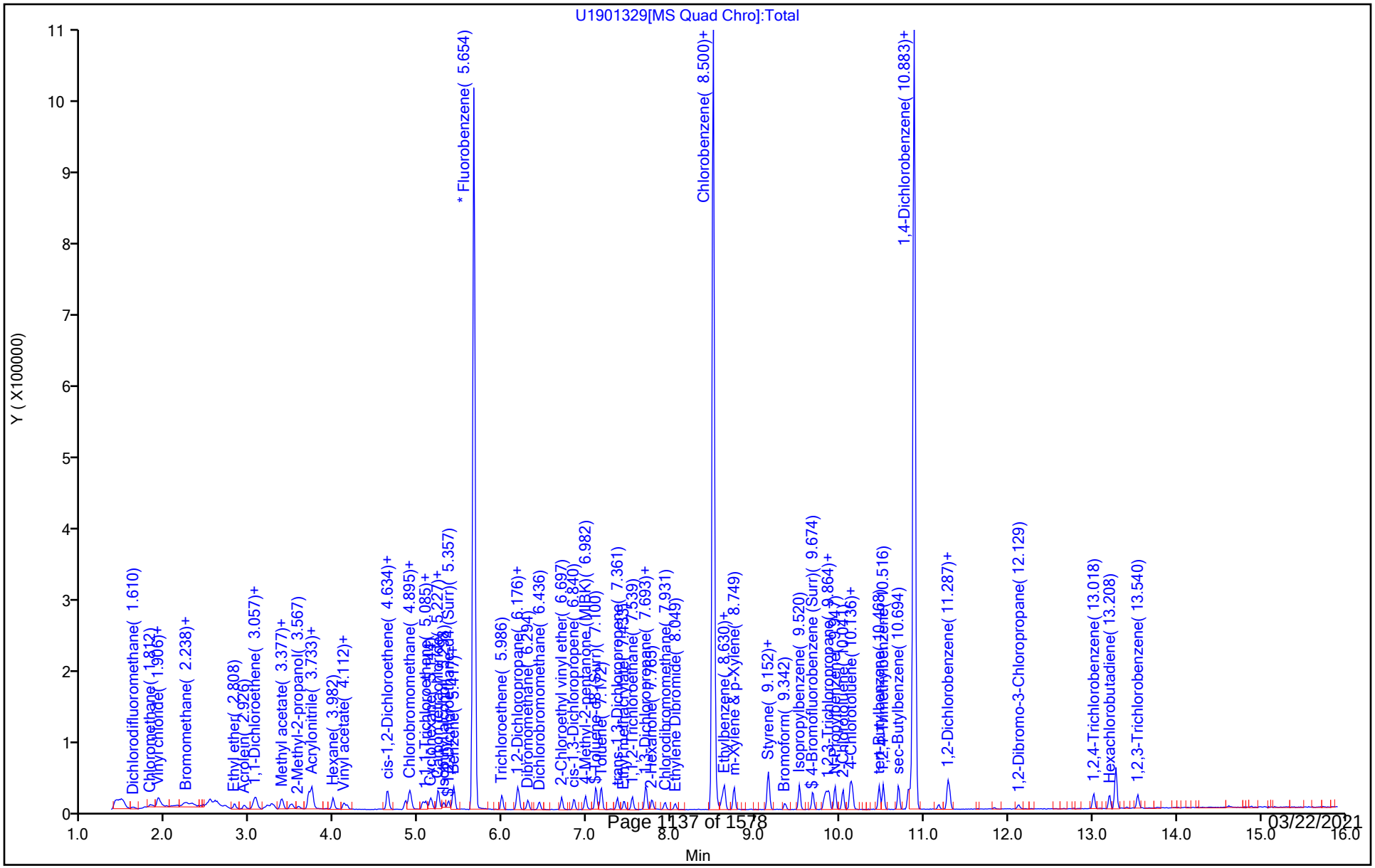
Report Date: 27-Aug-2018 21:29:03 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Injection Date:	27-Aug-2018 19:23:28	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	std8260 L1			Worklist Smp#:	13
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Canton

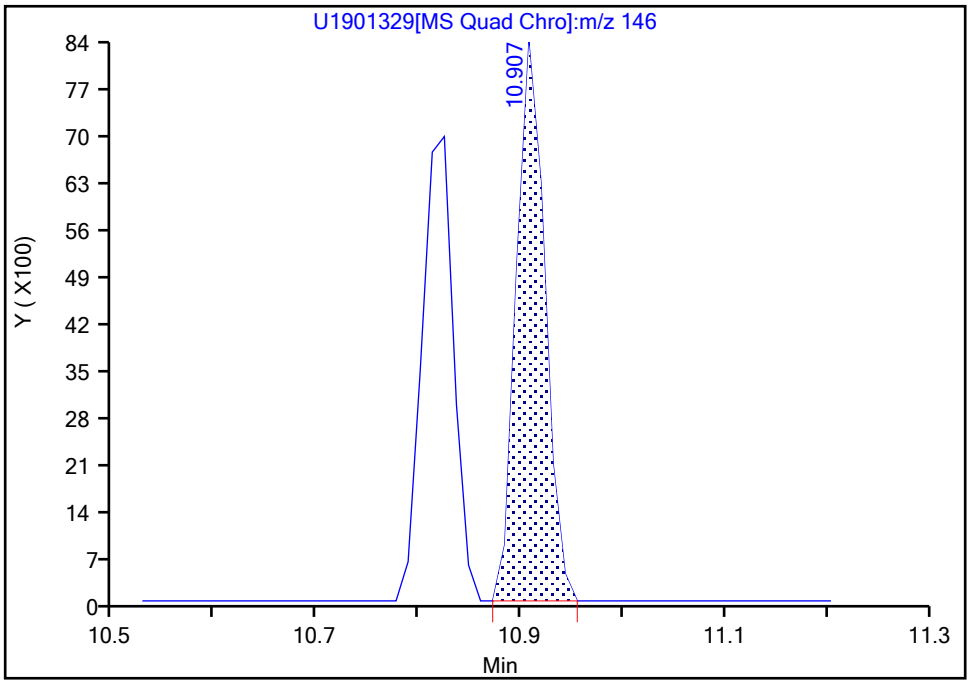
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d				
Injection Date:	27-Aug-2018 19:23:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

103 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

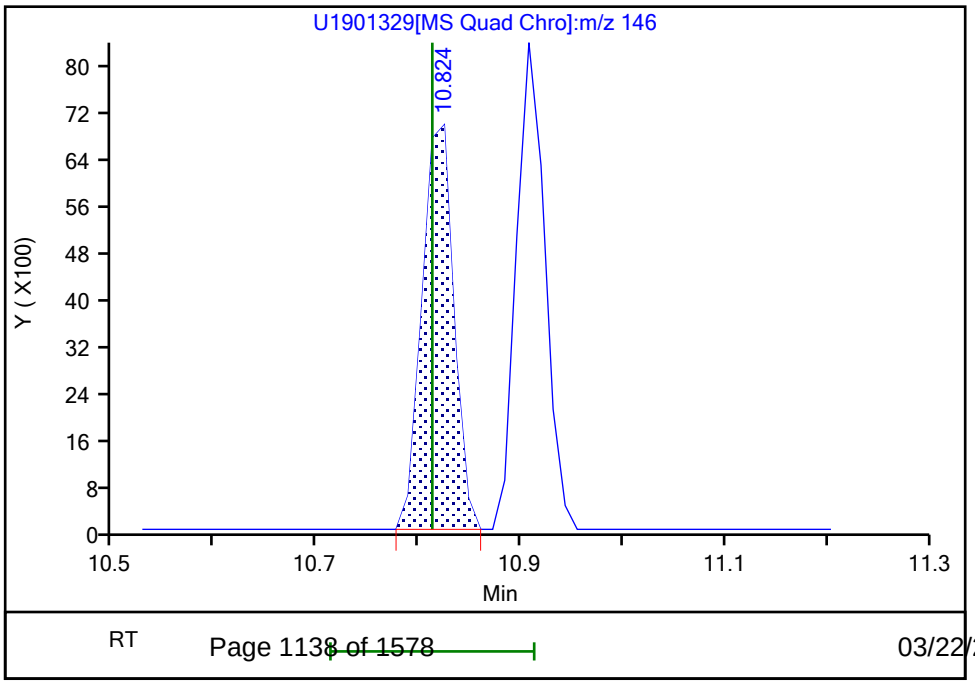
Processing Integration Results

RT: 10.91
Area: 16269
Amount: 0.561209
Amount Units: ug/l



Manual Integration Results

RT: 10.82
Area: 14989
Amount: 0.523661
Amount Units: ug/l



Reviewer: laveyt, 27-Aug-2018 19:47:35

User Disabled Compound Report

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Injection Date: 27-Aug-2018 19:23:28 Instrument ID: A3UX19

Lims ID: std8260 L1

Client ID:

Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 13

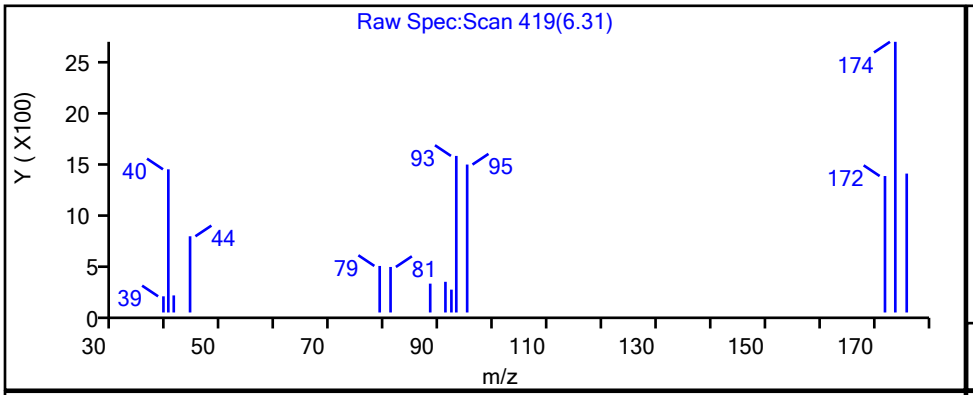
Injection Vol: 5.0 mL Dil. Factor: 1.0000

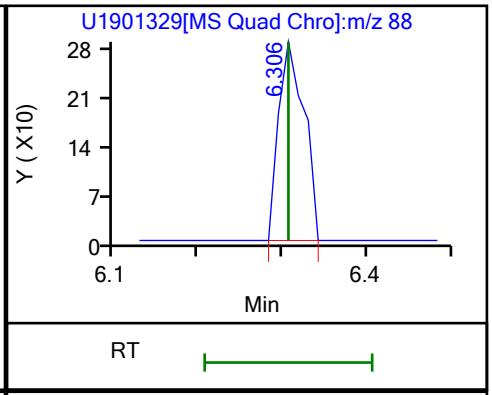
Method: 8260_19 Limit Group: MSV 8260C ICAL

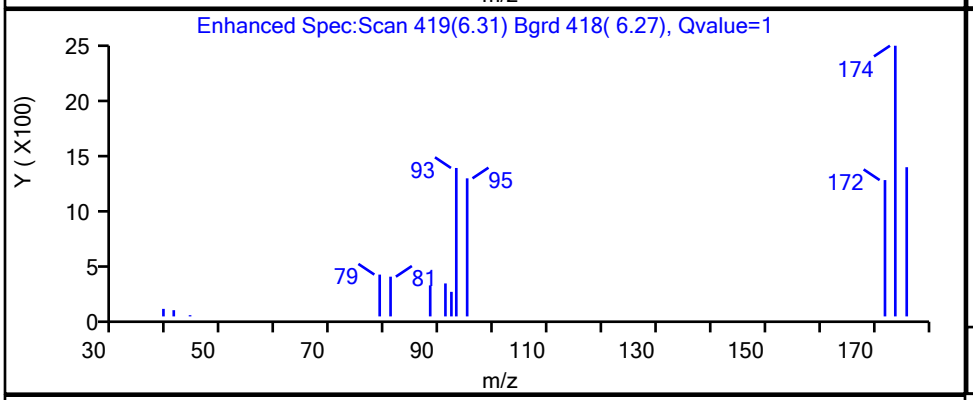
Column: DB-624 (0.18 mm) Detector MS SCAN

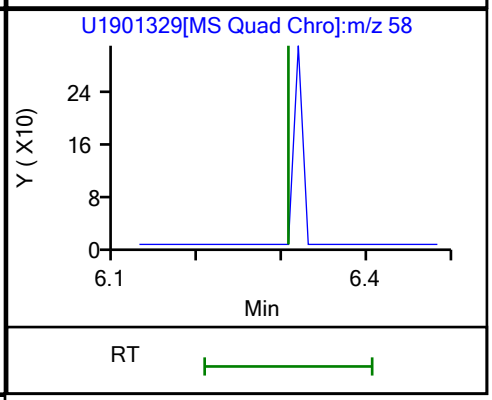
64 1,4-Dioxane, CAS: 123-91-1

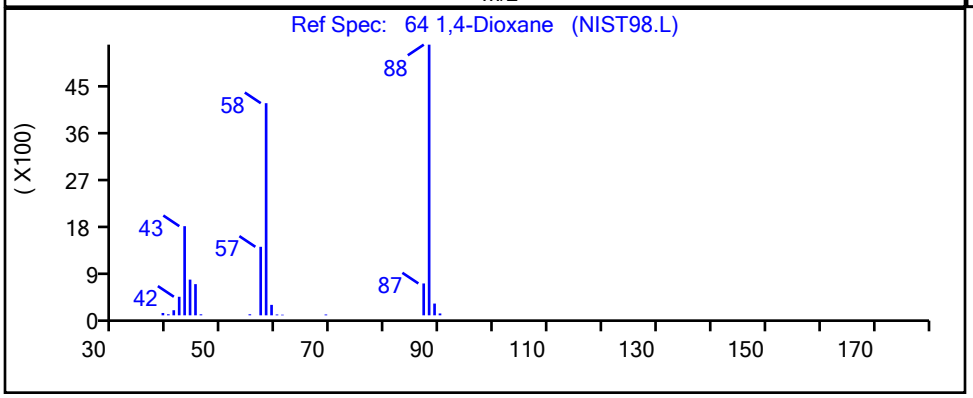
Processing Results











RT	Mass	Response	Amount
6.31	88.00	601	11.604682
6.31	58.00	0	

Reviewer: laveyt, 27-Aug-2018 19:49:09

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

User Disabled Compound Report

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Injection Date: 27-Aug-2018 19:23:28 Instrument ID: A3UX19

Lims ID: std8260 L1

Client ID:

Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 13

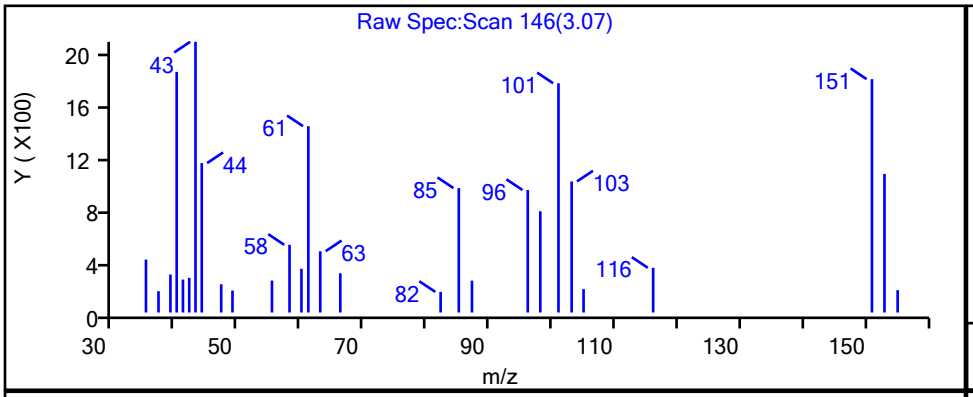
Injection Vol: 5.0 mL Dil. Factor: 1.0000

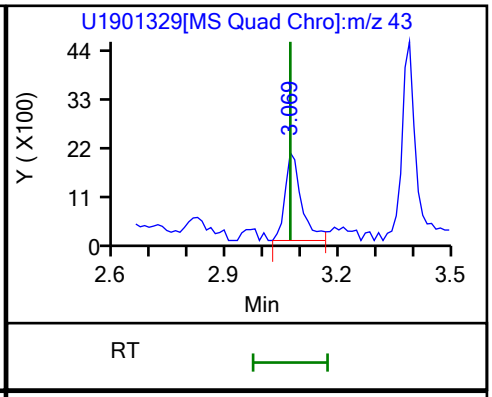
Method: 8260_19 Limit Group: MSV 8260C ICAL

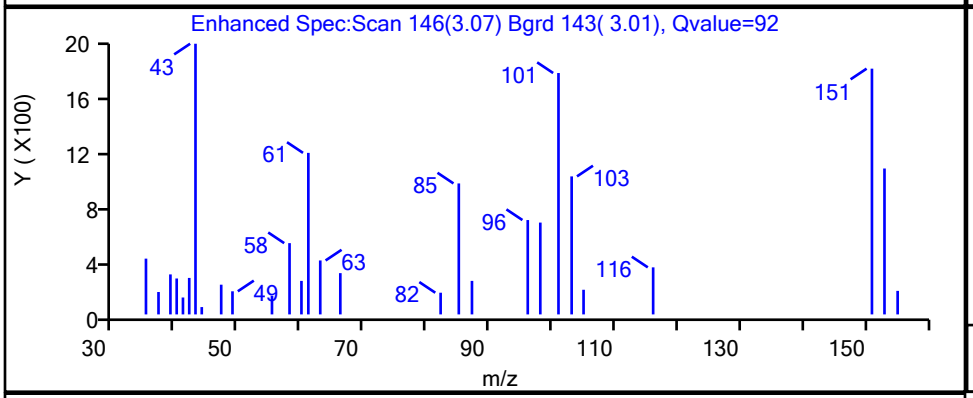
Column: DB-624 (0.18 mm) Detector MS SCAN

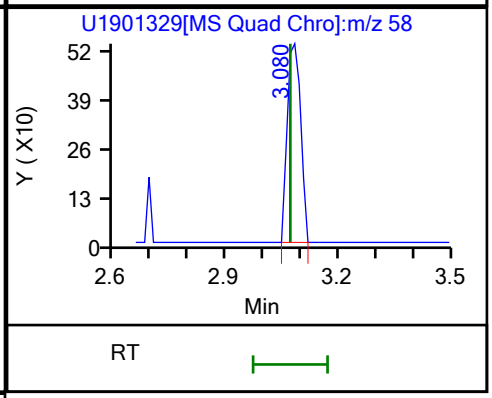
22 Acetone, CAS: 67-64-1

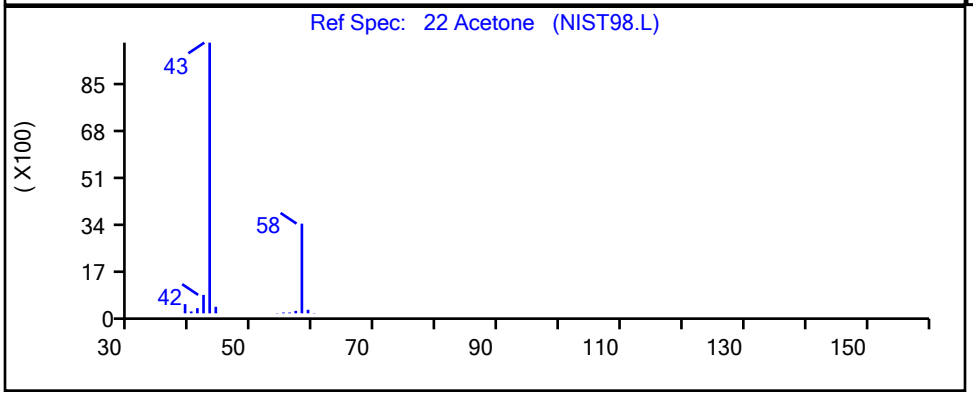
Processing Results











RT	Mass	Response	Amount
3.07	43.00	6224	1.077444
3.08	58.00	1333	

Reviewer: laveyt, 27-Aug-2018 19:48:05

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

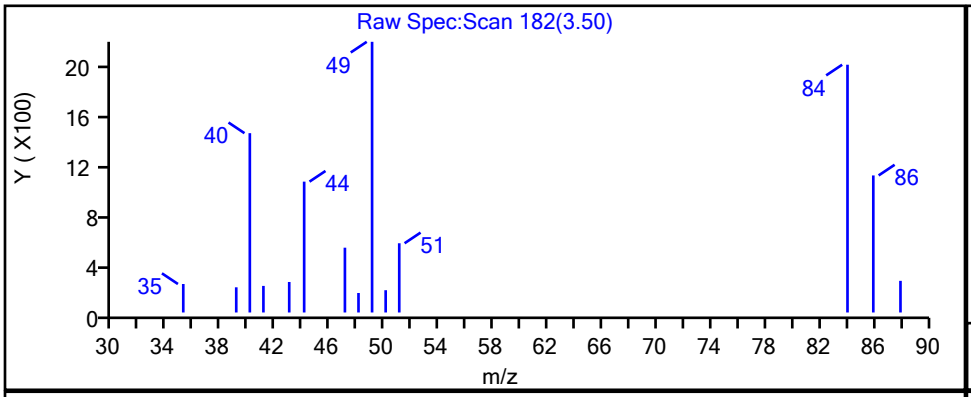
User Disabled Compound Report

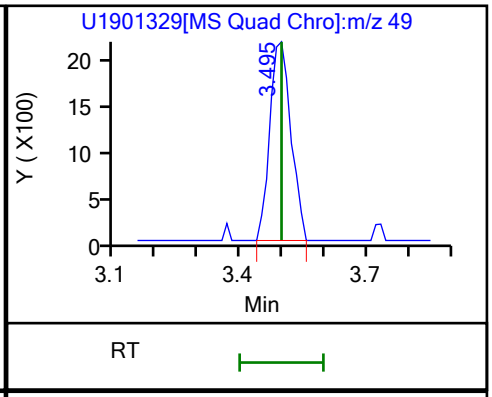
TestAmerica Canton

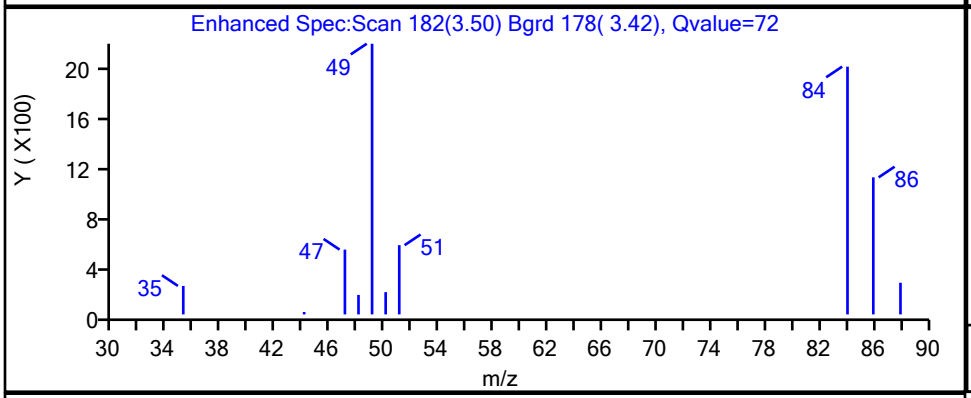
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d				
Injection Date:	27-Aug-2018 19:23:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

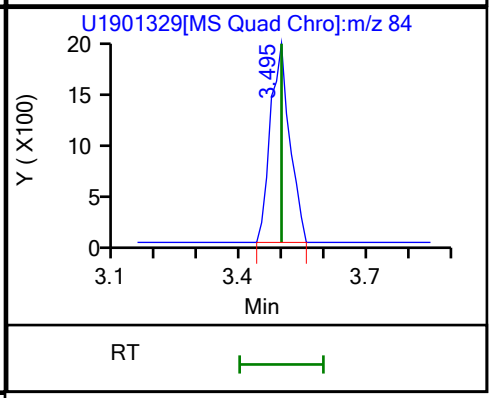
28 Methylene Chloride, CAS: 75-09-2

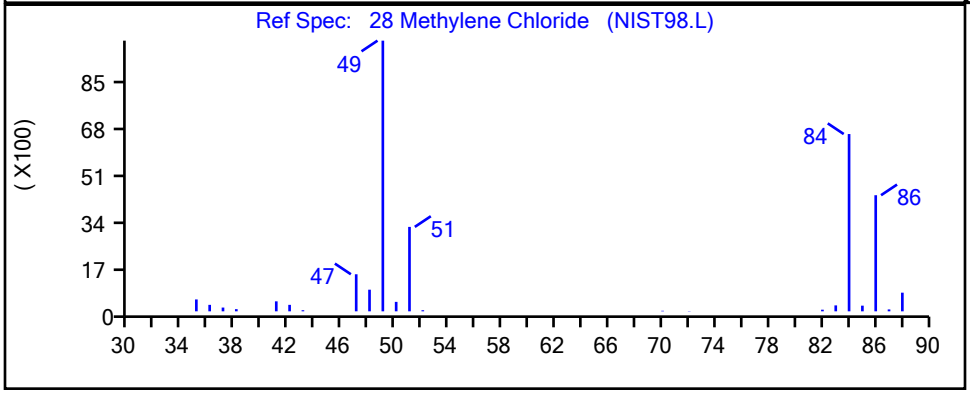
Processing Results











RT	Mass	Response	Amount
3.50	49.00	7484	0.551047
3.50	84.00	6258	

Reviewer: laveyt, 27-Aug-2018 19:48:14

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

User Disabled Compound Report

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Injection Date: 27-Aug-2018 19:23:28 Instrument ID: A3UX19

Lims ID: std8260 L1

Client ID:

Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 13

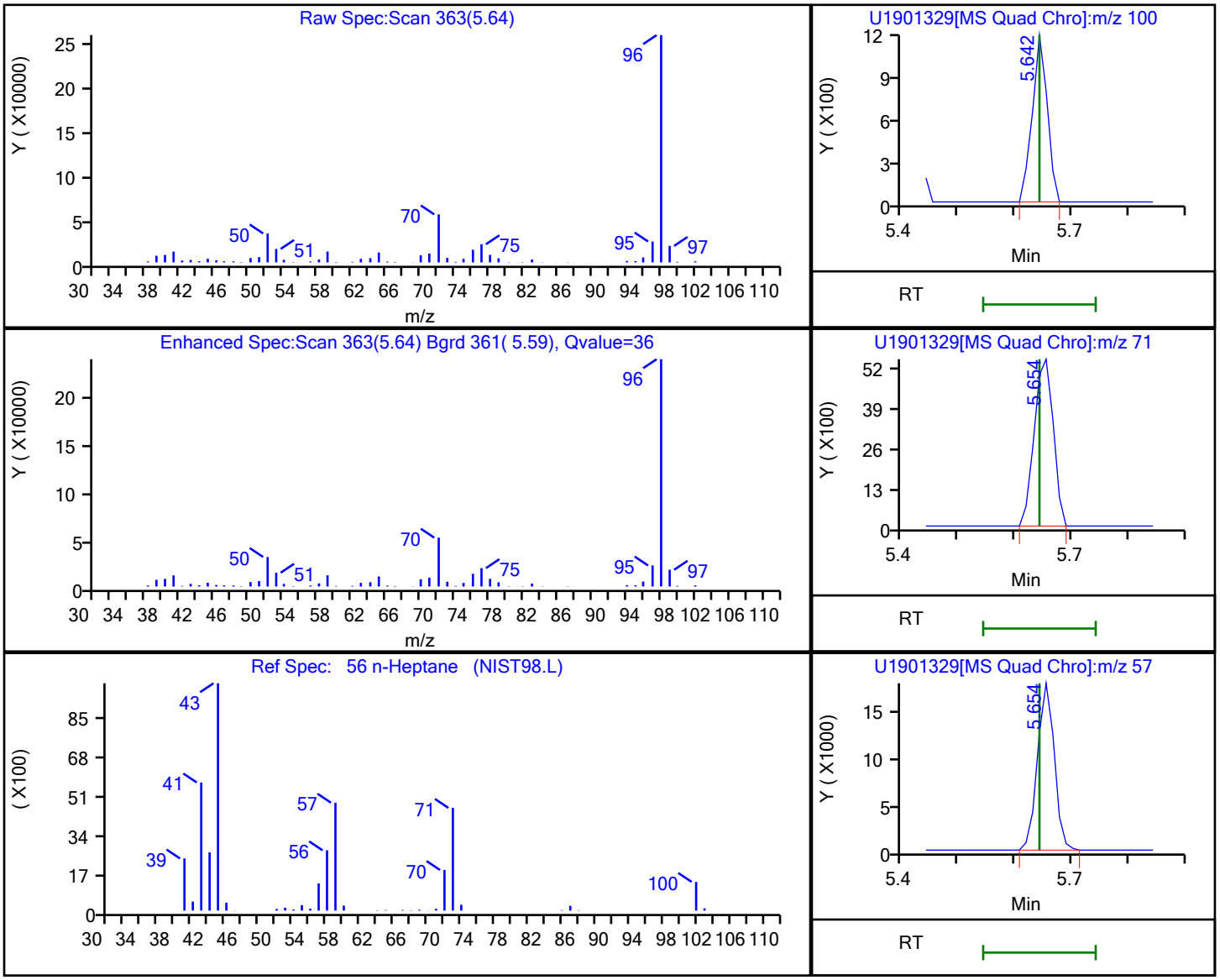
Injection Vol: 5.0 mL Dil. Factor: 1.0000

Method: 8260_19 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Detector MS SCAN

56 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
5.64	100.00	2131	
5.65	71.00	12900	
5.65	57.00	35542	0.539390

Reviewer: laveyt, 27-Aug-2018 19:48:44

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

User Disabled Compound Report

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Injection Date: 27-Aug-2018 19:23:28 Instrument ID: A3UX19

Lims ID: std8260 L1

Client ID:

Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 13

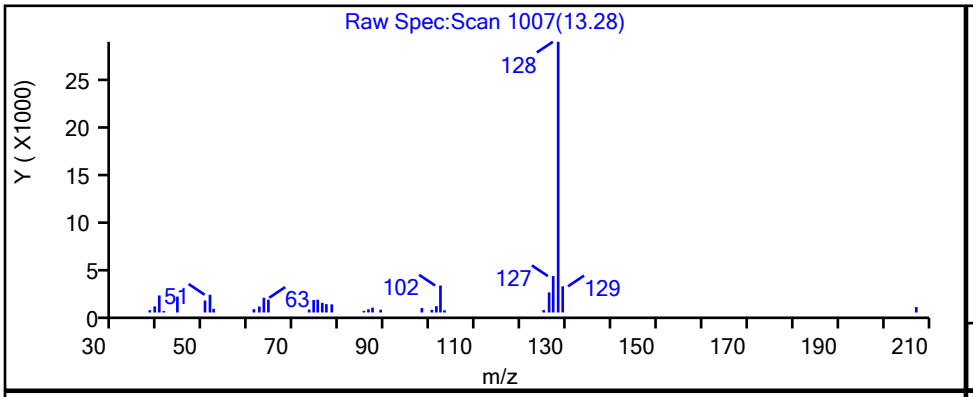
Injection Vol: 5.0 mL Dil. Factor: 1.0000

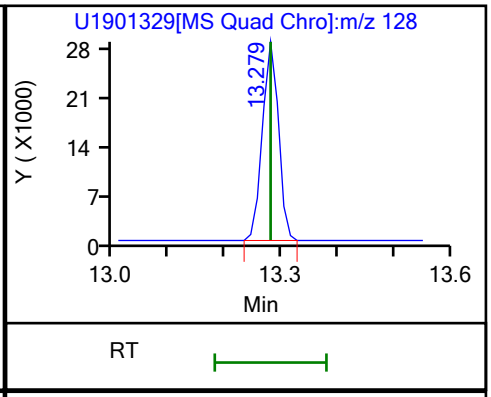
Method: 8260_19 Limit Group: MSV 8260C ICAL

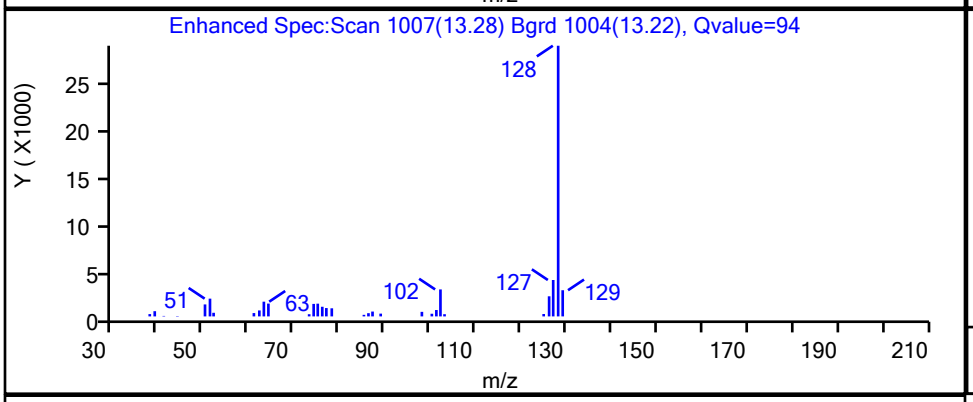
Column: DB-624 (0.18 mm) Detector MS SCAN

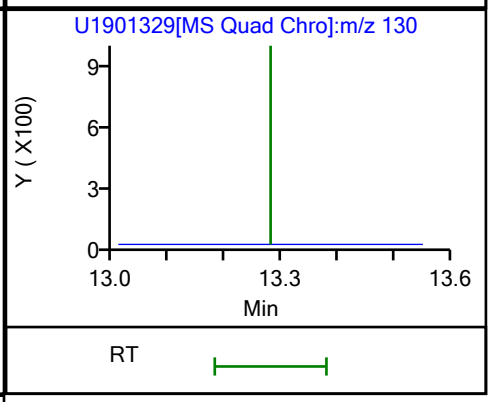
114 Naphthalene, CAS: 91-20-3

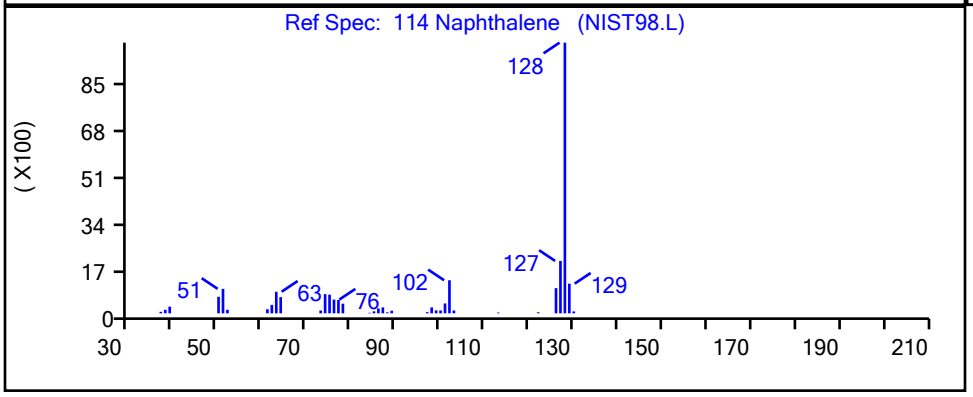
Processing Results











RT	Mass	Response	Amount
13.28	128.00	56279	0.769368
13.28	130.00	0	

Reviewer: laveyt, 27-Aug-2018 20:00:12

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

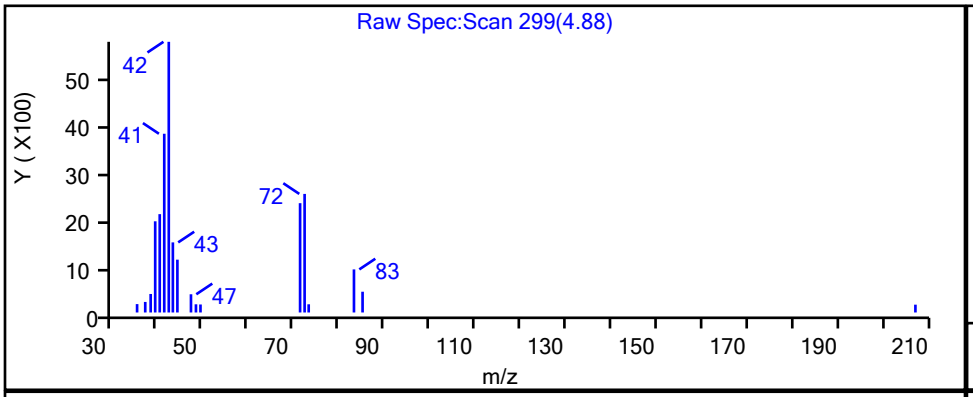
User Disabled Compound Report

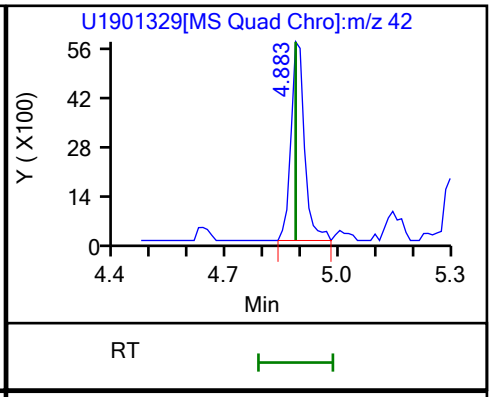
TestAmerica Canton

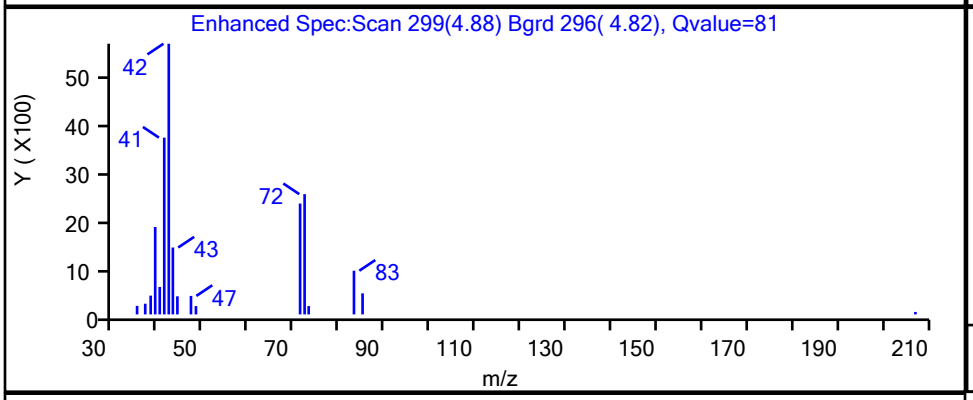
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d				
Injection Date:	27-Aug-2018 19:23:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

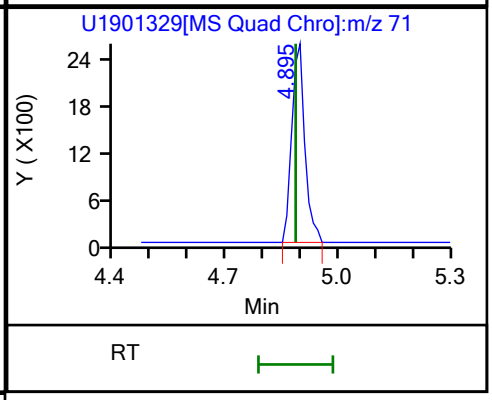
46 Tetrahydrofuran, CAS: 109-99-9

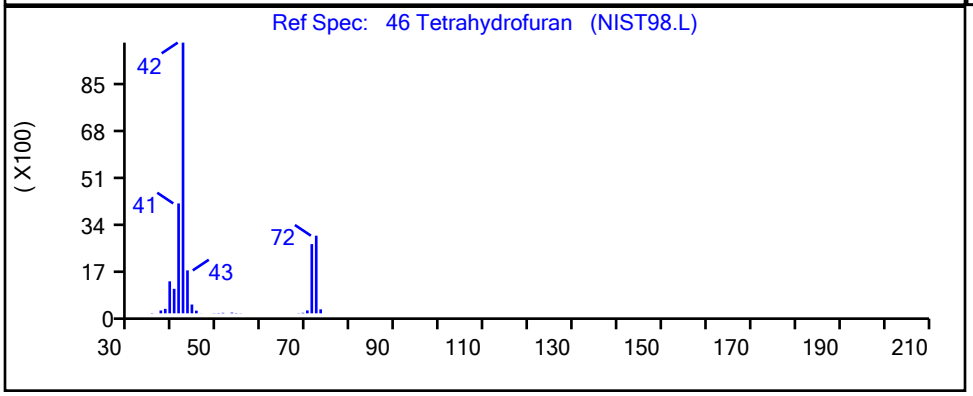
Processing Results











RT	Mass	Response	Amount
4.88	42.00	14557	0.882444
4.89	71.00	6288	

Reviewer: laveyt, 27-Aug-2018 19:48:29

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

User Disabled Compound Report

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Injection Date: 27-Aug-2018 19:23:28 Instrument ID: A3UX19

Lims ID: std8260 L1

Client ID:

Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 13

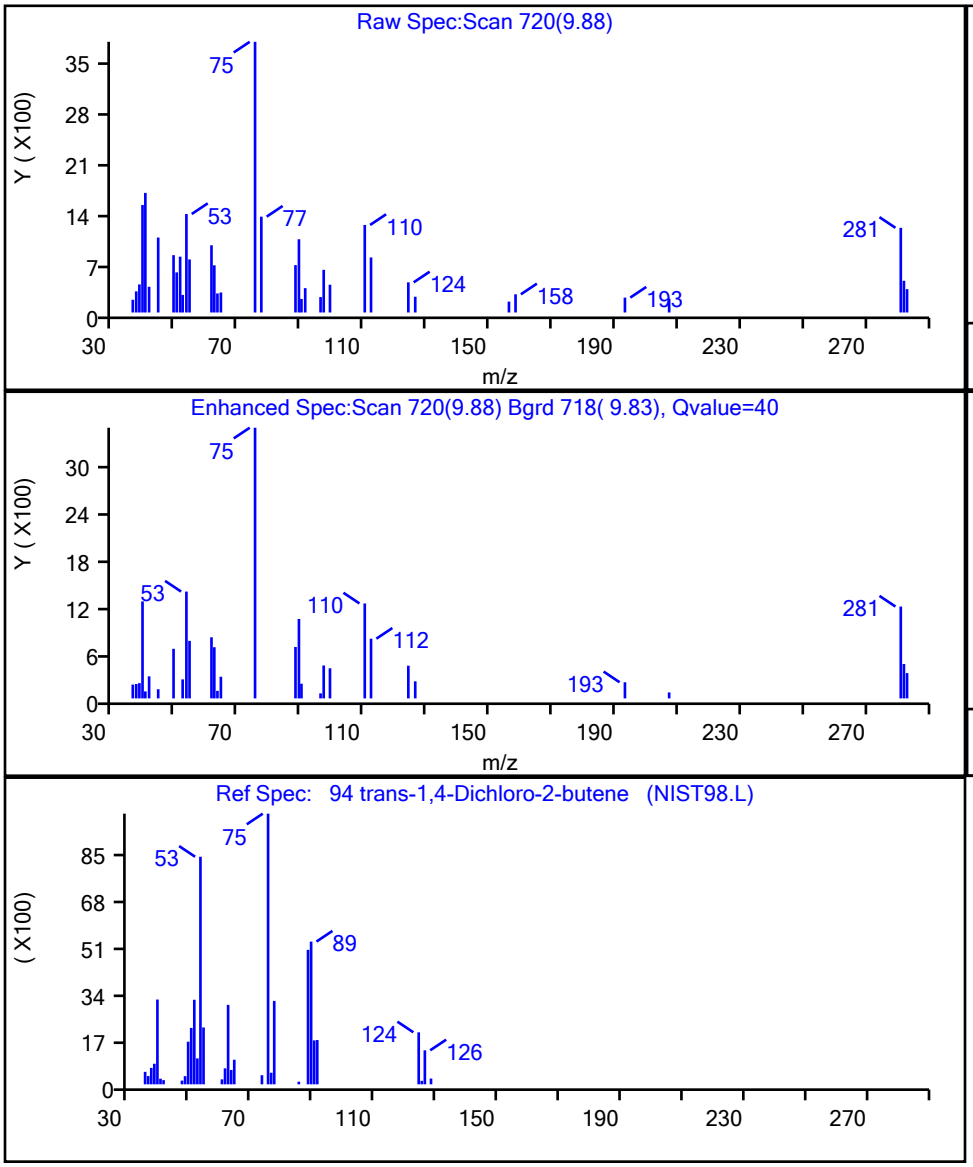
Injection Vol: 5.0 mL Dil. Factor: 1.0000

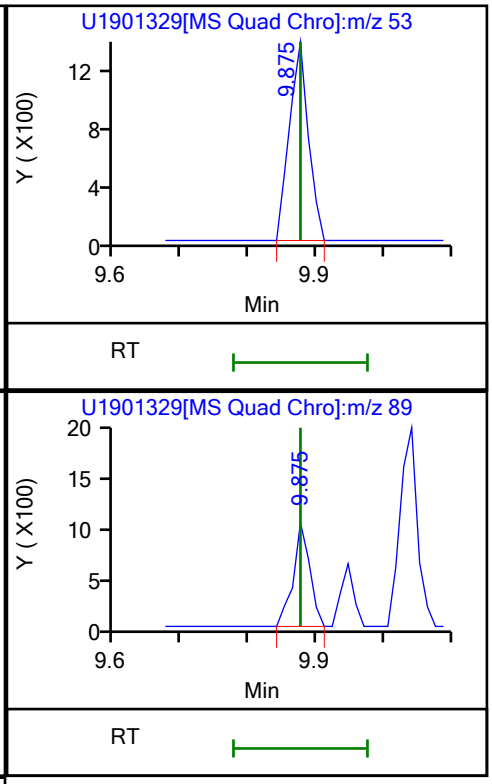
Method: 8260_19 Limit Group: MSV 8260C ICAL

Column: DB-624 (0.18 mm) Detector MS SCAN

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

Processing Results





RT	Mass	Response	Amount
9.88	53.00	2712	0.490436
9.88	89.00	1752	

Reviewer: laveyt, 27-Aug-2018 19:50:09

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-468309/8	UX992599.D
Level 2	STD8260 240-468309/9	UX992600.D
Level 3	STD8260 240-468309/10	UX992601.D
Level 4	ICIS 240-468309/11	UX992602.D
Level 5	STD8260 240-468309/12	UX992603.D
Level 6	STD8260 240-468309/13	UX992604.D
Level 7	STD8260 240-468309/14	UX992605.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								
Dichlorodifluoromethane	+++++ 0.3507	0.2724 0.3676	0.3573	0.3371	0.3459	Ave		0.3385			0.1000	10.0		20.0			
Chloromethane	0.3414 0.3140	0.3374 0.3171	0.3428	0.3241	0.3279	Ave		0.3292			0.1000	3.5		20.0			
Vinyl chloride	0.2560 0.3407	0.2819 0.3425	0.3543	0.3400	0.3487	Ave		0.3234			0.1000	11.8		20.0			
Butadiene	0.2948 0.3166	0.2843 0.3189	0.3207	0.3085	0.3192	Ave		0.3090				4.6		20.0			
Bromomethane	0.2253 0.2766	0.2499 0.2951	0.2966	0.2851	0.2777	Ave		0.2723			0.0500	9.5		20.0			
Chloroethane	0.2204 0.2433	0.2274 0.2482	0.2643	0.2467	0.2415	Ave		0.2417			0.0500	5.9		20.0			
Dichlorofluoromethane	0.5431 0.5308	0.5696 0.5366	0.6075	0.5540	0.5461	Ave		0.5554				4.7		20.0			
Trichlorofluoromethane	0.4669 0.5449	0.4739 0.5526	0.5681	0.5351	0.5494	Ave		0.5273			0.1000	7.6		20.0			
Ethyl ether	0.2398 0.2501	0.2412 0.2516	0.2646	0.2534	0.2470	Ave		0.2497				3.3		20.0			
Acrolein	+++++ 0.0138	0.0129 0.0138	0.0121	0.0120	0.0140	Ave		0.0131				6.8		20.0			
1,1-Dichloroethene	0.3961 0.3910	0.4044 0.3929	0.4219	0.4029	0.3930	Ave		0.4003			0.1000	2.7		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1899 0.2525	0.2024 0.2597	0.2693	0.2529	0.2474	Ave		0.2392			0.0500	12.7		20.0			
Acetone	0.0703 0.0292	0.0548 0.0310	0.0265	0.0246	0.0310	Lin1	0.0405	0.0289			0.0100	14.3			0.9920		0.9900

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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								
Iodomethane	0.3430 0.4177	0.3731 0.4281	0.4346	0.4230	0.4259	Ave		0.4065				8.5		20.0			
Carbon disulfide	0.6300 0.7166	0.6460 0.7371	0.7604	0.7208	0.7271	Ave		0.7054			0.1000	6.9		20.0			
3-Chloro-1-propene	0.4138 0.3895	0.3827 0.3934	0.4190	0.3910	0.3923	Ave		0.3974				3.4		20.0			
Methyl acetate	0.2840 0.2950	0.3070 0.2928	0.2914	0.2766	0.2892	Ave		0.2909			0.1000	3.2		20.0			
Methylene Chloride	+++++ 0.3305	0.4631 0.3352	0.3649	0.3403	0.3371	Ave		0.3619			0.1000	14.1		20.0			
2-Methyl-2-propanol	0.0293 0.0350	0.0335 0.0345	0.0333	0.0301	0.0402	Ave		0.0337				10.6		20.0			
Acrylonitrile	0.1128 0.1314	0.1200 0.1292	0.1264	0.1312	0.1295	Ave		0.1258				5.5		20.0			
trans-1,2-Dichloroethene	0.3739 0.3777	0.3746 0.3730	0.4058	0.3800	0.3788	Ave		0.3806			0.1000	3.0		20.0			
Methyl tert-butyl ether	0.8889 0.9363	0.9037 0.9392	0.9171	0.8838	0.9488	Ave		0.9168			0.1000	2.8		20.0			
Hexane	0.1954 0.2721	0.2088 0.2719	0.2658	0.2636	0.2533	Ave		0.2473				12.8		20.0			
1,1-Dichloroethane	0.4474 0.4766	0.4908 0.4806	0.5117	0.4839	0.4840	Ave		0.4822			0.2000	4.0		20.0			
Vinyl acetate	0.4463 0.5132	0.4658 0.5157	0.5144	0.4882	0.4966	Ave		0.4915				5.5		20.0			
cis-1,2-Dichloroethene	0.3510 0.3279	0.3246 0.3368	0.3457	0.3373	0.3299	Ave		0.3362			0.1000	2.9		20.0			
2-Butanone (MEK)	0.0446 0.0511	0.0419 0.0503	0.0448	0.0430	0.0485	Ave		0.0463			0.0100	7.9		20.0			
2,2-Dichloropropane	0.3328 0.3132	0.2947 0.3257	0.3655	0.3447	0.3479	Ave		0.3321				7.1		20.0			
Chlorobromomethane	0.2019 0.2367	0.2514 0.2366	0.2602	0.2479	0.2460	Ave		0.2401				7.8		20.0			
Tetrahydrofuran	0.1146 0.1164	0.1206 0.1147	0.1058	0.1000	0.1138	Ave		0.1123				6.2		20.0			
Chloroform	0.4987 0.5194	0.4922 0.5190	0.5636	0.5299	0.5196	Ave		0.5203			0.2000	4.5		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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								
1,1,1-Trichloroethane	0.4090 0.4527	0.4025 0.4591	0.4752	0.4546	0.4696	Ave		0.4461			0.1000	6.4		20.0			
Cyclohexane	0.2882 0.3986	0.3192 0.4043	0.4203	0.3934	0.3869	Ave		0.3730			0.1000	13.2		20.0			
1,1-Dichloropropene	0.3205 0.4088	0.3459 0.4054	0.4247	0.4030	0.4051	Ave		0.3876				9.9		20.0			
Carbon tetrachloride	0.2944 0.3926	0.3219 0.3989	0.3958	0.3947	0.3981	Ave		0.3709			0.1000	11.8		20.0			
Isobutyl alcohol	0.0101 0.0128	0.0107 0.0122	0.0111	0.0108	0.0126	Ave		0.0115				9.3		20.0			
1,2-Dichloroethane	0.4145 0.4350	0.4172 0.4341	0.4589	0.4359	0.4322	Ave		0.4325			0.1000	3.4		20.0			
Benzene	1.0050 1.1402	1.1381 1.1362	1.1990	1.1386	1.1231	Ave		1.1258			0.5000	5.2		20.0			
n-Heptane	0.4439 0.1414	0.2928 0.1393	0.1485	0.1367	0.1316	Lin1	0.1542	0.1338				3.8			0.9990		0.9900
Trichloroethene	0.2899 0.3296	0.2929 0.3264	0.3371	0.3235	0.3194	Ave		0.3170			0.1500	5.8		20.0			
Methylcyclohexane	0.2360 0.3721	0.3145 0.3732	0.3752	0.3590	0.3562	Ave		0.3409			0.1000	14.9		20.0			
1,2-Dichloropropane	0.2178 0.2528	0.2346 0.2504	0.2537	0.2436	0.2466	Ave		0.2428			0.1000	5.3		20.0			
Dibromomethane	0.1947 0.2126	0.1811 0.2116	0.2003	0.1996	0.2059	Ave		0.2008				5.4		20.0			
1,4-Dioxane	+++++ 0.0036	0.0023 0.0034	0.0029	0.0034	0.0038	Ave		0.0032				16.8		20.0			
Dichlorobromomethane	0.3427 0.3814	0.3483 0.3850	0.3768	0.3670	0.3744	Ave		0.3679			0.1500	4.5		20.0			
2-Chloroethyl vinyl ether	0.1347 0.1996	0.1482 0.1857	0.1711	0.1687	0.1778	Ave		0.1694				13.0		20.0			
cis-1,3-Dichloropropene	0.3566 0.4627	0.3778 0.4524	0.4437	0.4365	0.4489	Ave		0.4255			0.1500	9.7		20.0			
4-Methyl-2-pentanone (MIBK)	0.2643 0.3568	0.3325 0.3374	0.3390	0.3271	0.3404	Ave		0.3282			0.0500	9.0		20.0			
Toluene	1.4374 1.5326	1.5084 1.5492	1.6147	1.5460	1.5412	Ave		1.5328			0.4000	3.5		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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								
trans-1,3-Dichloropropene	0.3753 0.5686	0.4878 0.5669	0.5559	0.5348	0.5506	Ave		0.5200			0.1000	13.4		20.0			
Ethyl methacrylate	0.3185 0.4794	0.3856 0.4677	0.4528	0.4591	0.4588	Ave		0.4317				13.5		20.0			
1,1,2-Trichloroethane	0.2600 0.3328	0.3372 0.3341	0.3378	0.3267	0.3261	Ave		0.3221			0.1000	8.6		20.0			
1,3-Dichloropropane	0.5316 0.5880	0.5736 0.5899	0.6022	0.5775	0.5735	Ave		0.5766				3.9		20.0			
Tetrachloroethene	0.3064 0.3755	0.3505 0.3807	0.3773	0.3745	0.3741	Ave		0.3627			0.1500	7.4		20.0			
2-Hexanone	0.2410 0.3082	0.2700 0.2910	0.2979	0.2933	0.2961	Ave		0.2854			0.0500	8.0		20.0			
Chlorodibromomethane	0.2798 0.3643	0.3228 0.3721	0.3390	0.3427	0.3568	Ave		0.3396				9.2		20.0			
Ethylene Dibromide	0.2628 0.3689	0.3250 0.3640	0.3633	0.3585	0.3592	Ave		0.3431				11.2		20.0			
Chlorobenzene	0.9422 1.0090	0.9970 0.9975	1.0346	0.9918	0.9796	Ave		0.9931			0.3000	2.8		20.0			
1,1,1,2-Tetrachloroethane	0.3071 0.3766	0.3329 0.3890	0.3702	0.3706	0.3826	Ave		0.3613				8.3		20.0			
Ethylbenzene	0.4670 0.5298	0.4449 0.5286	0.5473	0.5295	0.5272	Ave		0.5106				7.5		20.0			
m-Xylene & p-Xylene	0.5512 0.6532	0.6259 0.6582	0.6712	0.6533	0.6414	Ave		0.6363				6.3		20.0			
o-Xylene	0.5720 0.6722	0.6308 0.6690	0.6928	0.6637	0.6762	Ave		0.6538				6.2		20.0			
Styrene	0.7354 1.0020	0.8611 0.9878	0.9624	0.9482	0.9652	Ave		0.9231			0.3000	10.2		20.0			
Bromoform	0.1512 0.2438	0.1727 0.2485	0.2235	0.2245	0.2317	Ave		0.2137			0.1000	17.3		20.0			
Isopropylbenzene	1.3546 1.6265	1.4882 1.6550	1.7285	1.6573	1.6399	Ave		1.5928			0.1000	8.0		20.0			
1,1,2,2-Tetrachloroethane	0.8421 0.9194	0.8266 0.9134	0.8781	0.8645	0.9283	Ave		0.8818			0.3000	4.5		20.0			
Bromobenzene	0.6419 0.7870	0.6438 0.7783	0.7536	0.7270	0.7612	Ave		0.7275				8.4		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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								
trans-1,4-Dichloro-2-butene	+++++ 0.2874	0.2298 0.2798	0.2657	0.2695	0.2770	Ave		0.2682				7.6		20.0			
1,2,3-Trichloropropane	0.3252 0.3528	0.2893 0.3515	0.3531	0.3406	0.3512	Ave		0.3377				7.0		20.0			
N-Propylbenzene	0.6637 0.7967	0.6450 0.7944	0.7899	0.7579	0.7870	Ave		0.7478				8.7		20.0			
2-Chlorotoluene	0.6273 0.7301	0.7172 0.7297	0.7329	0.6981	0.7229	Ave		0.7083				5.3		20.0			
1,3,5-Trimethylbenzene	1.9648 2.4380	2.0860 2.4514	2.3862	2.3131	2.4375	Ave		2.2967				8.5		20.0			
4-Chlorotoluene	0.6002 0.7544	0.6834 0.7461	0.7547	0.7177	0.7293	Ave		0.7122				7.8		20.0			
tert-Butylbenzene	1.8039 2.2126	1.8156 2.1227	2.0058	2.2344	2.1657	Ave		2.0515				8.8		20.0			
1,2,4-Trimethylbenzene	2.0586 2.5219	2.1645 2.5204	2.5158	2.4347	2.5200	Ave		2.3909				8.2		20.0			
sec-Butylbenzene	0.4101 0.6113	0.4614 0.6170	0.5829	0.5762	0.5984	Ave		0.5511				14.8		20.0			
1,3-Dichlorobenzene	1.3857 1.4629	1.2851 1.4644	1.4793	1.4174	1.4563	Ave		1.4216			0.6000	4.8		20.0			
4-Isopropyltoluene	1.8752 2.4773	1.9239 2.4928	2.4416	2.3923	2.4587	Ave		2.2945				11.9		20.0			
1,4-Dichlorobenzene	1.2531 1.4952	1.3964 1.5133	1.5255	1.4796	1.5085	Ave		1.4531			0.5000	6.7		20.0			
n-Butylbenzene	1.5223 1.9364	1.7063 1.9610	1.9591	1.9193	1.9731	Ave		1.8539				9.3		20.0			
1,2-Dichlorobenzene	1.2082 1.4875	1.5181 1.5077	1.5599	1.4777	1.5181	Ave		1.4682			0.4000	8.0		20.0			
1,2-Dibromo-3-Chloropropane	0.1535 0.2617	0.1553 0.2645	0.2413	0.2458	0.2680	Lin1	-0.0788	0.2631			0.0500	10.0			0.9990		0.9900
1,2,4-Trichlorobenzene	0.7762 0.8605	0.8253 0.8816	0.8970	0.8667	0.9075	Ave		0.8593			0.2000	5.3		20.0			
Hexachlorobutadiene	0.2375 0.2714	0.2454 0.2840	0.2727	0.2742	0.2835	Ave		0.2670				6.8		20.0			
Naphthalene	2.8519 3.1382	2.8658 3.1827	3.2765	3.1306	3.3545	Ave		3.1143				6.2		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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								
1,2,3-Trichlorobenzene	0.7548 0.8094	0.7748 0.8304	0.8660	0.8095	0.8740	Ave		0.8170				5.4		20.0			
Dibromofluoromethane (Surr)	0.2804 0.2826	0.2839 0.2819	0.3079	0.2790	0.2836	Ave		0.2856				3.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3333 0.3581	0.3469 0.3555	0.3828	0.3588	0.3599	Ave		0.3565				4.2		20.0			
Toluene-d8 (Surr)	1.2828 1.3478	1.2823 1.3221	1.4026	1.3394	1.3343	Ave		1.3302				3.1		20.0			
4-Bromofluorobenzene (Surr)	0.4494 0.4760	0.4308 0.4638	0.4929	0.4735	0.4665	Ave		0.4647				4.3		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-468309/8	UX992599.D
Level 2	STD8260 240-468309/9	UX992600.D
Level 3	STD8260 240-468309/10	UX992601.D
Level 4	ICIS 240-468309/11	UX992602.D
Level 5	STD8260 240-468309/12	UX992603.D
Level 6	STD8260 240-468309/13	UX992604.D
Level 7	STD8260 240-468309/14	UX992605.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
Dichlorodifluoromethane	FB	Ave	+++++ 837294	13523 1324270	179162	369659	591236	+++++ 40.0	1.00 60.0	10.0	20.0	30.0
Chloromethane	FB	Ave	8546 749679	16750 1142358	171928	355355	560444	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Vinyl chloride	FB	Ave	6409 813417	13997 1233924	177650	372832	596015	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Butadiene	FB	Ave	7380 755960	14115 1148799	160804	338275	545589	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Bromomethane	FB	Ave	5640 660520	12406 1063038	148749	312623	474673	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Chloroethane	FB	Ave	5518 580877	11289 894126	132533	270482	412828	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Dichlorofluoromethane	FB	Ave	13595 1267459	28281 1933099	304663	607509	933396	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Trichlorofluoromethane	FB	Ave	11689 1301034	23531 1990685	284893	586770	939080	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Ethyl ether	FB	Ave	6002 597226	11977 906357	132674	277871	422141	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Acrolein	FB	Ave	+++++ 164665	3191 249103	30431	65815	119514	+++++ 200	5.00 300	50.0	100	150
1,1-Dichloroethene	FB	Ave	9916 933510	20080 1415192	211583	441742	671717	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	4755 602998	10049 935649	135044	277284	422882	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Acetone	FB	Lin1	3521 139453	5438 223348	26603	53967	105949	1.00 80.0	2.00 120	20.0	40.0	60.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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
Iodomethane	FB	Ave	8586 997257	18523 1542217	217947	463834	727906	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Carbon disulfide	FB	Ave	15771 1710964	32076 2655372	381331	790414	1242789	0.500 40.0	1.00 60.0	10.0	20.0	30.0
3-Chloro-1-propene	FB	Ave	10359 930043	19000 1417065	210114	428776	670459	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Methyl acetate	FB	Ave	14219 1408602	30485 2109607	292307	606533	988502	1.00 80.0	2.00 120	20.0	40.0	60.0
Methylene Chloride	FB	Ave	+++++ 789038	22995 1207583	182988	373191	576114	+++++ 40.0	1.00 60.0	10.0	20.0	30.0
2-Methyl-2-propanol	FB	Ave	7332 835763	16652 1242036	166858	329720	686826	5.00 400	10.0 600	100	200	300
Acrylonitrile	FB	Ave	28235 3136862	59564 4652703	633648	1438141	2212983	5.00 400	10.0 600	100	200	300
trans-1,2-Dichloroethene	FB	Ave	9361 901764	18600 1343818	203516	416732	647485	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Methyl tert-butyl ether	FB	Ave	22253 2235536	44871 3383116	459903	969069	1621690	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Hexane	FB	Ave	4891 649789	10369 979353	133295	289083	432892	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1-Dichloroethane	FB	Ave	11201 1137933	24368 1731431	256595	530628	827315	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Vinyl acetate	FB	Ave	11173 1225421	23128 1857835	257939	535367	848782	0.500 40.0	1.00 60.0	10.0	20.0	30.0
cis-1,2-Dichloroethene	FB	Ave	8786 782850	16116 1213167	173345	369896	563863	0.500 40.0	1.00 60.0	10.0	20.0	30.0
2-Butanone (MEK)	FB	Ave	2234 243971	4157 362687	44969	94277	165856	1.00 80.0	2.00 120	20.0	40.0	60.0
2,2-Dichloropropane	FB	Ave	8331 747923	14630 1173300	183283	377949	594600	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Chlorobromomethane	FB	Ave	5054 565096	12482 852421	130470	271822	420534	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Tetrahydrofuran	FB	Ave	5736 555803	11976 826479	106138	219413	388996	1.00 80.0	2.00 120	20.0	40.0	60.0
Chloroform	FB	Ave	12483 1240173	24437 1869719	282634	581026	888133	0.500 40.0	1.00 60.0	10.0	20.0	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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
1,1,1-Trichloroethane	FB	Ave	10239 1080844	19984 1653719	238306	498536	802571	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Cyclohexane	FB	Ave	7214 951624	15849 1456351	210758	431407	661272	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1-Dichloropropene	FB	Ave	8024 975987	17173 1460358	212953	441932	692330	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Carbon tetrachloride	FB	Ave	7370 937419	15983 1436935	198498	432762	680341	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Isobutyl alcohol	FB	Ave	6318 766547	13281 1097539	138790	295154	537952	12.5 1000	25.0 1500	250	500	750
1,2-Dichloroethane	FB	Ave	10377 1038654	20713 1563880	230120	477951	738741	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Benzene	FB	Ave	25158 2722516	56510 4092766	601269	1248554	1919650	0.500 40.0	1.00 60.0	10.0	20.0	30.0
n-Heptane	FB	Lin1	11112 337693	14539 501678	74492	149853	224884	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Trichloroethene	FB	Ave	7257 786999	14545 1175818	169044	354755	545866	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Methylcyclohexane	FB	Ave	5909 888451	15614 1344384	188169	393615	608870	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2-Dichloropropane	FB	Ave	5452 603710	11646 902110	127207	267093	421513	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Dibromomethane	FB	Ave	4873 507734	8992 762299	100461	218879	351977	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,4-Dioxane	FB	Ave	+++++ 170900	2282 242887	29009	75093	129317	+++++ 800	20.0 1200	200	400	600
Dichlorobromomethane	FB	Ave	8580 910595	17293 1386823	188969	402429	639963	0.500 40.0	1.00 60.0	10.0	20.0	30.0
2-Chloroethyl vinyl ether	FB	Ave	6746 952963	14720 1337809	171595	370042	607654	1.00 80.0	2.00 120	20.0	40.0	60.0
cis-1,3-Dichloropropene	FB	Ave	8928 1104882	18757 1629677	222482	478588	767316	0.500 40.0	1.00 60.0	10.0	20.0	30.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	13234 1703841	33021 2430765	339981	717269	1163674	1.00 80.0	2.00 120	20.0	40.0	60.0
Toluene	CBNZ d5	Ave	25049	54586	601503	1270161	1994135	0.500	1.00	10.0	20.0	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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
			2905987	4261803				40.0	60.0			
trans-1,3-Dichloropropene	CBNZ d5	Ave	6540 1078213	17653 1559646	207098	439363	712369	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Ethyl methacrylate	CBNZ d5	Ave	5551 909046	13952 1286507	168675	377178	593683	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1,2-Trichloroethane	CBNZ d5	Ave	4531 631024	12204 919071	125821	268408	421989	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,3-Dichloropropane	CBNZ d5	Ave	9264 1114971	20758 1622901	224346	474440	742093	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Tetrachloroethene	CBNZ d5	Ave	5340 711945	12682 1047339	140559	307718	484038	0.500 40.0	1.00 60.0	10.0	20.0	30.0
2-Hexanone	CBNZ d5	Ave	8400 1168734	19538 1601145	221937	481993	766334	1.00 80.0	2.00 120	20.0	40.0	60.0
Chlorodibromomethane	CBNZ d5	Ave	4876 690696	11681 1023743	126303	281530	461619	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Ethylene Dibromide	CBNZ d5	Ave	4579 699458	11761 1001359	135345	294533	464772	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Chlorobenzene	CBNZ d5	Ave	16419 1913272	36077 2744060	385396	814868	1267452	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	5351 714178	12045 1070263	137926	304448	495025	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Ethylbenzene	CBNZ d5	Ave	8138 1004500	16101 1454277	203900	435010	682095	0.500 40.0	1.00 60.0	10.0	20.0	30.0
m-Xylene & p-Xylene	CBNZ d5	Ave	9606	22648	250041	536748	829848	0.500	1.00	10.0	20.0	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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
			1238632	1810736				40.0	60.0			
o-Xylene	CBNZ d5	Ave	9969 1274660	22827 1840300	258087	545286	874999	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Styrene	CBNZ d5	Ave	12816 1900002	31162 2717281	358504	778987	1248842	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Bromoform	CBNZ d5	Ave	2635 462368	6251 683630	83265	184424	299810	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Isopropylbenzene	CBNZ d5	Ave	23606 3084153	53853 4552919	643893	1361614	2121814	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	8298 948368	16978 1379313	190473	411590	667082	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Bromobenzene	DCBd 4	Ave	6325 811804	13223 1175295	163465	346122	546980	0.500 40.0	1.00 60.0	10.0	20.0	30.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 296519	4720 422507	57625	128296	199062	+++++ 40.0	1.00 60.0	10.0	20.0	30.0
1,2,3-Trichloropropane	DCBd 4	Ave	3205 363933	5942 530818	76602	162154	252357	0.500 40.0	1.00 60.0	10.0	20.0	30.0
N-Propylbenzene	DCBd 4	Ave	6540 821800	13247 1199687	171349	360809	565553	0.500 40.0	1.00 60.0	10.0	20.0	30.0
2-Chlorotoluene	DCBd 4	Ave	6181 753088	14730 1101848	158989	332345	519479	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	19361 2514970	42844 3701837	517616	1101273	1751540	0.500 40.0	1.00 60.0	10.0	20.0	30.0
4-Chlorotoluene	DCBd 4	Ave	5914	14036	163715	341712	524029	0.500	1.00	10.0	20.0	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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
			778155	1126655				40.0	60.0			
tert-Butylbenzene	DCBd 4	Ave	17776 2282358	37289 3205499	435104	1063802	1556192	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	20286 2601458	44456 3806074	545715	1159165	1810833	0.500 40.0	1.00 60.0	10.0	20.0	30.0
sec-Butylbenzene	DCBd 4	Ave	4041 630625	9476 931795	126449	274340	429972	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,3-Dichlorobenzene	DCBd 4	Ave	13655 1509036	26393 2211446	320894	674834	1046490	0.500 40.0	1.00 60.0	10.0	20.0	30.0
4-Isopropyltoluene	DCBd 4	Ave	18478 2555499	39514 3764439	529628	1138961	1766729	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,4-Dichlorobenzene	DCBd 4	Ave	12348 1542423	28680 2285249	330908	704434	1084006	0.500 40.0	1.00 60.0	10.0	20.0	30.0
n-Butylbenzene	DCBd 4	Ave	15001 1997503	35045 2961345	424959	913763	1417830	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2-Dichlorobenzene	DCBd 4	Ave	11906 1534481	31179 2276724	338372	703535	1090858	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	1513 270007	3189 399495	52348	117020	192564	0.500 40.0	1.00 60.0	10.0	20.0	30.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	7649 887616	16951 1331350	194567	412639	652085	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Hexachlorobutadiene	DCBd 4	Ave	2340 279973	5040 428897	59164	130548	203711	0.500 40.0	1.00 60.0	10.0	20.0	30.0
Naphthalene	DCBd 4	Ave	28103	58858	710728	1490475	2410458	0.500	1.00	10.0	20.0	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

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
			3237195	4806255				40.0	60.0			
1,2,3-Trichlorobenzene	DCBd 4	Ave	7438	15913	187855	385383	628044	0.500	1.00	10.0	20.0	30.0
			834934	1253995				40.0	60.0			
Dibromofluoromethane (Surr)	FB	Ave	7018	14098	154402	305884	484645	0.500	1.00	10.0	20.0	30.0
			674681	1015320				40.0	60.0			
1,2-Dichloroethane-d4 (Surr)	FB	Ave	8343	17224	191978	393485	615059	0.500	1.00	10.0	20.0	30.0
			855050	1280730				40.0	60.0			
Toluene-d8 (Surr)	CBNZ d5	Ave	22355	46403	522519	1100433	1726508	0.500	1.00	10.0	20.0	30.0
			2555618	3637027				40.0	60.0			
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	7831	15589	183620	389037	603577	0.500	1.00	10.0	20.0	30.0
			902639	1275890				40.0	60.0			

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 12:44 Calibration End Date: 01/07/2021 14:59 Calibration ID: 59891

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-468309/8	UX992599.D
Level 2	STD8260 240-468309/9	UX992600.D
Level 3	STD8260 240-468309/10	UX992601.D
Level 4	ICIS 240-468309/11	UX992602.D
Level 5	STD8260 240-468309/12	UX992603.D
Level 6	STD8260 240-468309/13	UX992604.D
Level 7	STD8260 240-468309/14	UX992605.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Acetone	3.3						50					
n-Heptane	1.2						50					
1,2-Dibromo-3-Chloropropane	17.6						50					

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992599.D
Lims ID: std8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-Jan-2021 12:44:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-008
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:07:36 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 11:56:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.866	5.865	0.001	99	1001319	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.564	8.563	0.001	87	697084	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.812	10.811	0.001	96	394163	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.275	5.275	0.000	87	7018	0.5000	0.4908	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.570	5.570	0.000	94	8343	0.5000	0.4675	
$ 6 Toluene-d8 (Surr)	98	7.251	7.251	0.000	94	22355	0.5000	0.4822	
$ 7 4-Bromofluorobenzene (Surr)	95	9.676	9.676	0.000	87	7831	0.5000	0.4835	
9 Dichlorodifluoromethane	85		1.772				ND	ND	U
10 Chloromethane	50	1.985	1.985	0.000	93	8546	0.5000	0.5185	
11 Vinyl chloride	62	2.115	2.115	0.000	69	6409	0.5000	0.3958	
12 Butadiene	54	2.103	2.115	-0.012	91	7380	0.5000	0.4770	
13 Bromomethane	94	2.447	2.446	0.001	80	5640	0.5000	0.4136	
15 Chloroethane	64	2.529	2.541	-0.012	90	5518	0.5000	0.4560	
16 Dichlorofluoromethane	67	2.731	2.742	-0.011	95	13595	0.5000	0.4889	
17 Trichlorofluoromethane	101	2.790	2.825	-0.035	93	11689	0.5000	0.4428	
18 Ethyl ether	59	3.062	3.062	0.000	89	6002	0.5000	0.4802	
21 Acrolein	56		3.180				ND	ND	
24 1,1-Dichloroethene	61	3.299	3.298	0.001	95	9916	0.5000	0.4948	
22 112TCTFE	101	3.310	3.322	-0.012	82	4755	0.5000	0.3971	
23 Acetone	58	3.334	3.334	0.000	98	3521	1.00	1.03	
25 Iodomethane	142	3.441	3.440	0.001	91	8586	0.5000	0.4219	
26 Carbon disulfide	76	3.523	3.523	0.000	99	15771	0.5000	0.4465	
28 3-Chloro-1-propene	41	3.630	3.630	0.000	84	10359	0.5000	0.5207	
29 Methyl acetate	43	3.642	3.642	0.000	95	14219	1.00	0.9765	
30 Methylene Chloride	49		3.736				ND	ND	U
31 2-Methyl-2-propanol	59	3.831	3.831	0.000	95	7332	5.00	4.35	
32 Acrylonitrile	53	3.949	3.949	0.000	99	28235	5.00	4.48	
34 trans-1,2-Dichloroethene	61	3.985	3.997	-0.012	62	9361	0.5000	0.4913	
33 Methyl tert-butyl ether	73	3.997	3.997	0.000	96	22253	0.5000	0.4848	
35 Hexane	57	4.245	4.245	0.000	91	4891	0.5000	0.3951	
36 1,1-Dichloroethane	63	4.364	4.363	0.001	93	11201	0.5000	0.4640	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.399	4.399	0.000	95	11173	0.5000	0.4541	
41 2-Butanone (MEK)	72	4.872	4.872	0.000	74	2234	1.00	0.9633	
43 cis-1,2-Dichloroethene	96	4.860	4.872	-0.012	78	8786	0.5000	0.5220	
42 2,2-Dichloropropane	77	4.884	4.884	0.000	78	8331	0.5000	0.5011	
47 Chlorobromomethane	49	5.073	5.073	0.000	87	5054	0.5000	0.4204	
48 Tetrahydrofuran	42	5.133	5.121	0.012	68	5736	1.00	1.02	
49 Chloroform	83	5.133	5.133	0.000	92	12483	0.5000	0.4792	
50 1,1,1-Trichloroethane	97	5.322	5.322	0.000	96	10239	0.5000	0.4584	
51 Cyclohexane	84	5.381	5.381	0.000	87	7214	0.5000	0.3863	
52 1,1-Dichloropropene	75	5.452	5.452	0.000	90	8024	0.5000	0.4135	
53 Carbon tetrachloride	117	5.464	5.464	0.000	89	7370	0.5000	0.3969	
54 Isobutyl alcohol	41	5.499	5.499	0.000	89	6318	12.5	11.0	
55 Benzene	78	5.641	5.641	0.000	97	25158	0.5000	0.4464	
56 1,2-Dichloroethane	62	5.630	5.641	-0.011	63	10377	0.5000	0.4792	
58 n-Heptane	71	5.866	5.854	0.012	36	11112	0.5000	0.5061	
60 Trichloroethene	130	6.186	6.186	0.000	94	7257	0.5000	0.4573	
62 Methylcyclohexane	83	6.363	6.363	0.000	81	5909	0.5000	0.3462	
63 1,2-Dichloropropane	63	6.375	6.375	0.000	74	5452	0.5000	0.4485	
66 Dibromomethane	174	6.482	6.481	0.001	94	4873	0.5000	0.4846	
65 1,4-Dioxane	88		6.481				ND	ND	
67 Dichlorobromomethane	83	6.600	6.600	0.000	92	8580	0.5000	0.4658	
69 2-Chloroethyl vinyl ether	63	6.848	6.848	0.000	91	6746	1.00	0.7954	
71 cis-1,3-Dichloropropene	75	6.990	6.990	0.000	89	8928	0.5000	0.4191	
72 4-Methyl-2-pentanone (MIBK)	43	7.121	7.120	0.001	94	13234	1.00	0.8054	
73 Toluene	91	7.310	7.310	0.000	97	25049	0.5000	0.4689	
74 trans-1,3-Dichloropropene	75	7.487	7.475	0.012	91	6540	0.5000	0.3608	
75 Ethyl methacrylate	69	7.547	7.546	0.001	80	5551	0.5000	0.3689	
76 1,1,2-Trichloroethane	97	7.641	7.653	-0.012	88	4531	0.5000	0.4036	
77 1,3-Dichloropropane	76	7.807	7.807	0.000	88	9264	0.5000	0.4609	
78 Tetrachloroethene	166	7.807	7.819	-0.012	81	5340	0.5000	0.4224	
80 2-Hexanone	43	7.866	7.866	0.000	91	8400	1.00	0.8446	
82 Chlorodibromomethane	129	8.020	8.020	0.000	86	4876	0.5000	0.4119	
83 Ethylene Dibromide	107	8.138	8.138	0.000	95	4579	0.5000	0.3829	
85 Chlorobenzene	112	8.600	8.600	0.000	96	16419	0.5000	0.4744	
86 1,1,1,2-Tetrachloroethane	131	8.659	8.659	0.000	92	5351	0.5000	0.4249	
87 Ethylbenzene	106	8.694	8.694	0.000	97	8138	0.5000	0.4573	
88 m-Xylene & p-Xylene	106	8.801	8.801	0.000	96	9606	0.5000	0.4331	
89 o-Xylene	106	9.179	9.179	0.000	92	9969	0.5000	0.4375	
90 Styrene	104	9.191	9.179	0.012	77	12816	0.5000	0.3983	
91 Bromoform	173	9.369	9.369	0.000	89	2635	0.5000	0.3537	
92 Isopropylbenzene	105	9.523	9.523	0.000	94	23606	0.5000	0.4252	
94 1,1,2,2-Tetrachloroethane	83	9.795	9.795	0.000	88	8298	0.5000	0.4775	
95 Bromobenzene	156	9.842	9.842	0.000	91	6325	0.5000	0.4411	
96 trans-1,4-Dichloro-2-butene	53		9.842				ND	ND	U
97 1,2,3-Trichloropropane	110	9.842	9.842	0.000	72	3205	0.5000	0.4816	
98 N-Propylbenzene	120	9.925	9.925	0.000	98	6540	0.5000	0.4438	
100 2-Chlorotoluene	126	10.020	10.019	0.001	96	6181	0.5000	0.4428	
101 1,3,5-Trimethylbenzene	105	10.091	10.090	0.001	91	19361	0.5000	0.4277	
102 4-Chlorotoluene	126	10.114	10.126	-0.012	97	5914	0.5000	0.4213	
104 tert-Butylbenzene	119	10.422	10.422	0.000	89	17776	0.5000	0.4397	
106 1,2,4-Trimethylbenzene	105	10.457	10.457	0.000	94	20286	0.5000	0.4305	
107 sec-Butylbenzene	134	10.635	10.635	0.000	92	4041	0.5000	0.3721	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.753	10.753	0.000	96	13655	0.5000	0.4874	
109 4-Isopropyltoluene	119	10.777	10.765	0.012	96	18478	0.5000	0.4086	
110 1,4-Dichlorobenzene	146	10.836	10.836	0.000	35	12348	0.5000	0.4312	
113 n-Butylbenzene	91	11.179	11.179	0.000	94	15001	0.5000	0.4106	
114 1,2-Dichlorobenzene	146	11.215	11.215	0.000	92	11906	0.5000	0.4115	
115 1,2-Dibromo-3-Chloropropane	157	11.984	11.972	0.012	1	1513	0.5000	0.5881	
117 1,2,4-Trichlorobenzene	180	12.824	12.824	0.000	93	7649	0.5000	0.4517	
118 Hexachlorobutadiene	225	13.001	13.001	0.000	74	2340	0.5000	0.4448	
119 Naphthalene	128	13.084	13.084	0.000	94	28103	0.5000	0.4579	
120 1,2,3-Trichlorobenzene	180	13.356	13.356	0.000	93	7438	0.5000	0.4620	
S 158 Total BTEX	1				0		2.50	2.24	
S 128 1,2-Dichloroethene, Total	96				0			1.01	
S 129 1,3-Dichloropropene, Total	75				0			0.7799	
S 130 Trihalomethanes, Total	83				0		2.00	1.71	
S 131 Xylenes, Total	106				0		1.00	0.8706	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vmrgas_00368	Amount Added:	0.40	Units: uL
vmarolistdw_00375	Amount Added:	0.40	Units: uL
vmrprimw_00418	Amount Added:	0.40	Units: uL
vm50ss_00431	Amount Added:	0.40	Units: uL

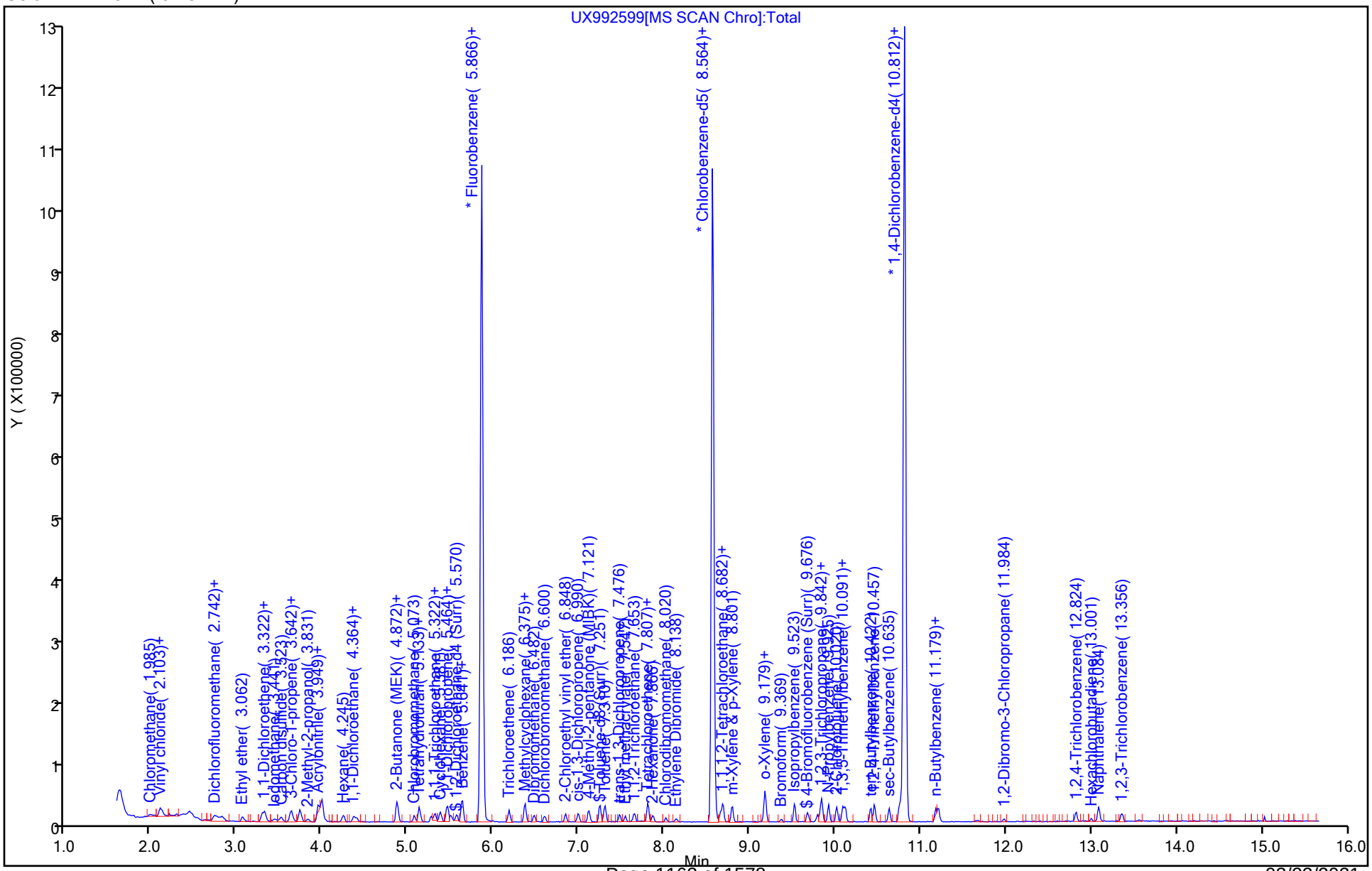
Report Date: 08-Jan-2021 14:07:37 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992599.D

Injection Date:	07-Jan-2021 12:44:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	std8260 L1			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

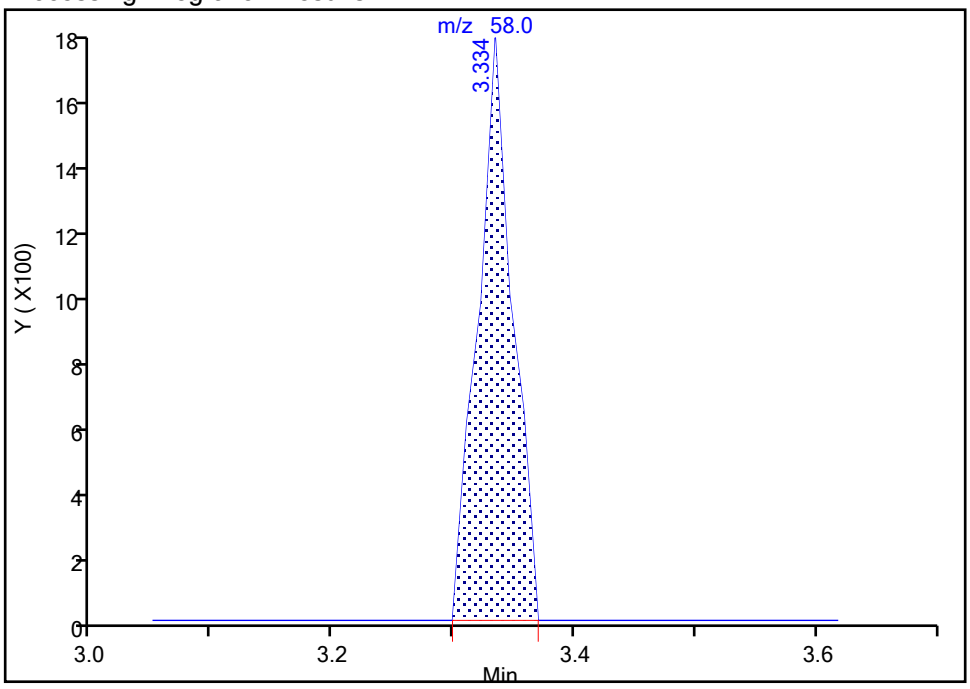
Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992599.D
Injection Date: 07-Jan-2021 12:44:30 Instrument ID: A3UX9
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_9 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 2

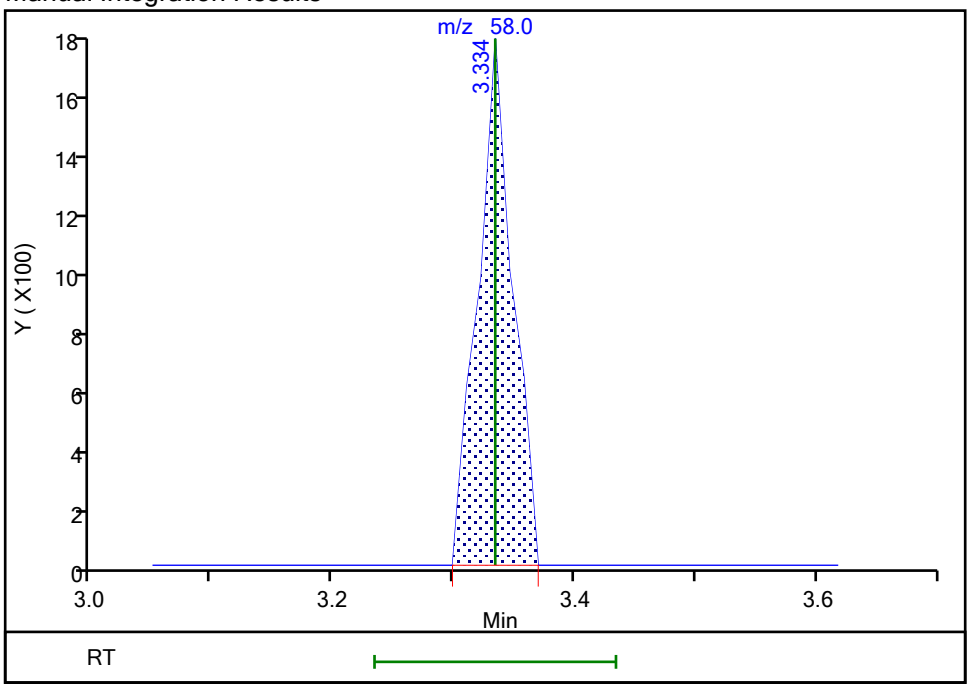
Processing Integration Results

RT: 3.33
Area: 3521
Amount: 1.033446
Amount Units: ug/l



Manual Integration Results

RT: 3.33
Area: 3521
Amount: 1.033446
Amount Units: ug/l



Reviewer: bosworthh, 08-Jan-2021 11:46:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Canton

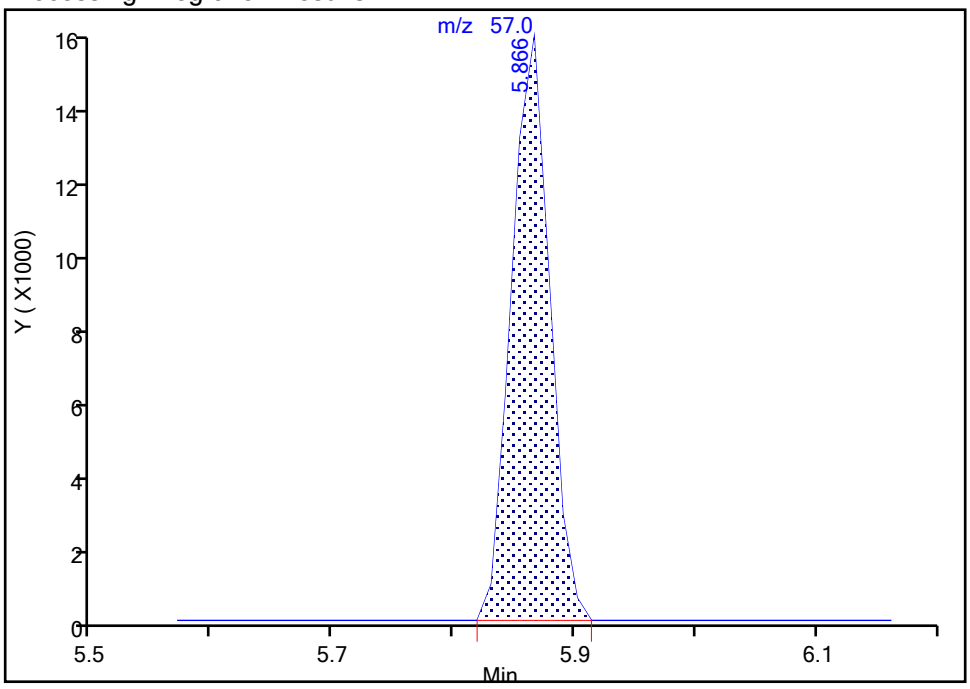
Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992599.D
Injection Date: 07-Jan-2021 12:44:30 Instrument ID: A3UX9
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_9 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

58 n-Heptane, CAS: 142-82-5

Signal: 2

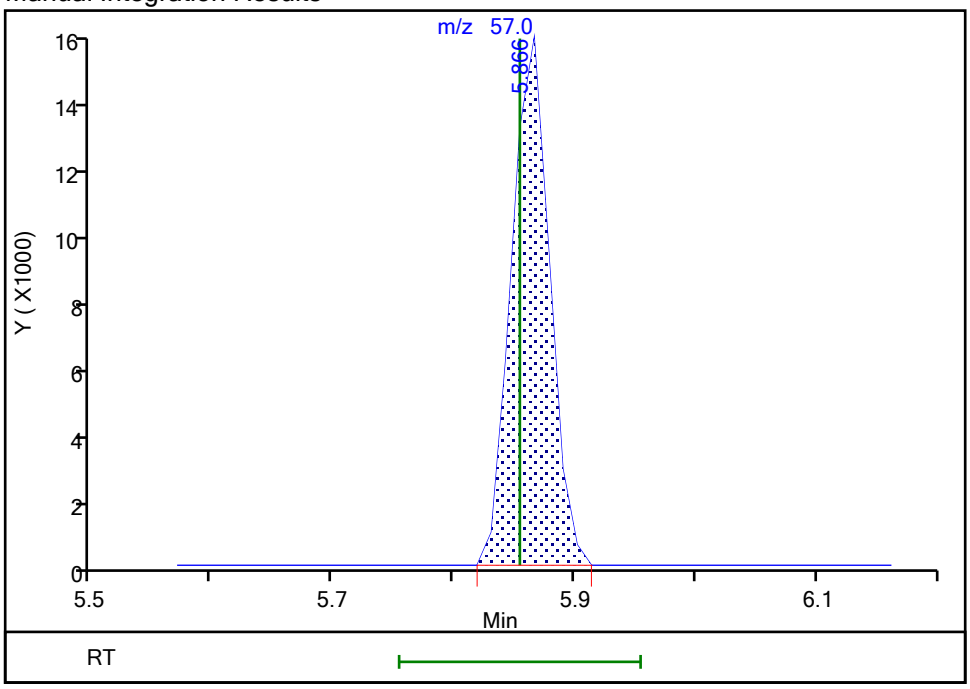
Processing Integration Results

RT: 5.87
Area: 34874
Amount: 0.506076
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 34874
Amount: 0.506076
Amount Units: ug/l



Reviewer: bosworthh, 08-Jan-2021 11:48:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton

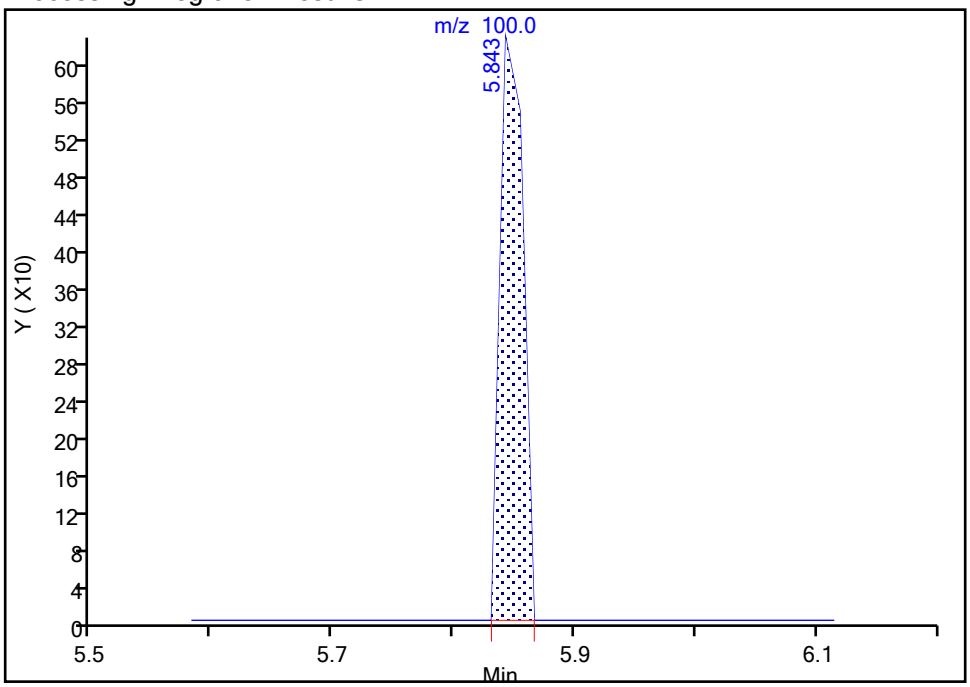
Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992599.D
Injection Date: 07-Jan-2021 12:44:30 Instrument ID: A3UX9
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_9 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

58 n-Heptane, CAS: 142-82-5

Signal: 3

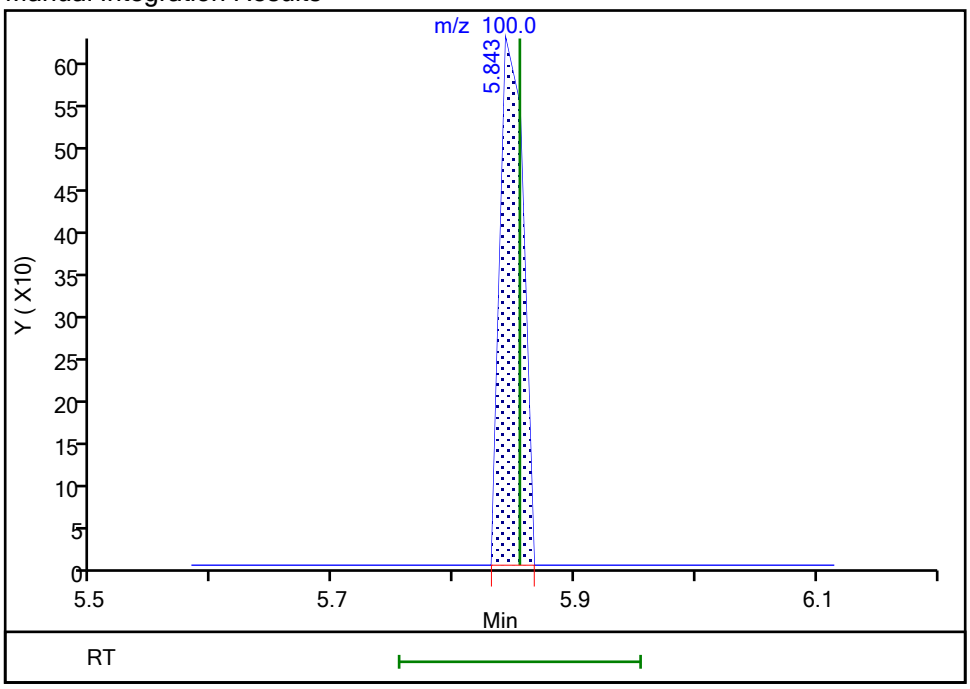
Processing Integration Results

RT: 5.84
Area: 838
Amount: 0.506076
Amount Units: ug/l



Manual Integration Results

RT: 5.84
Area: 838
Amount: 0.506076
Amount Units: ug/l



Reviewer: bosworthh, 08-Jan-2021 11:48:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

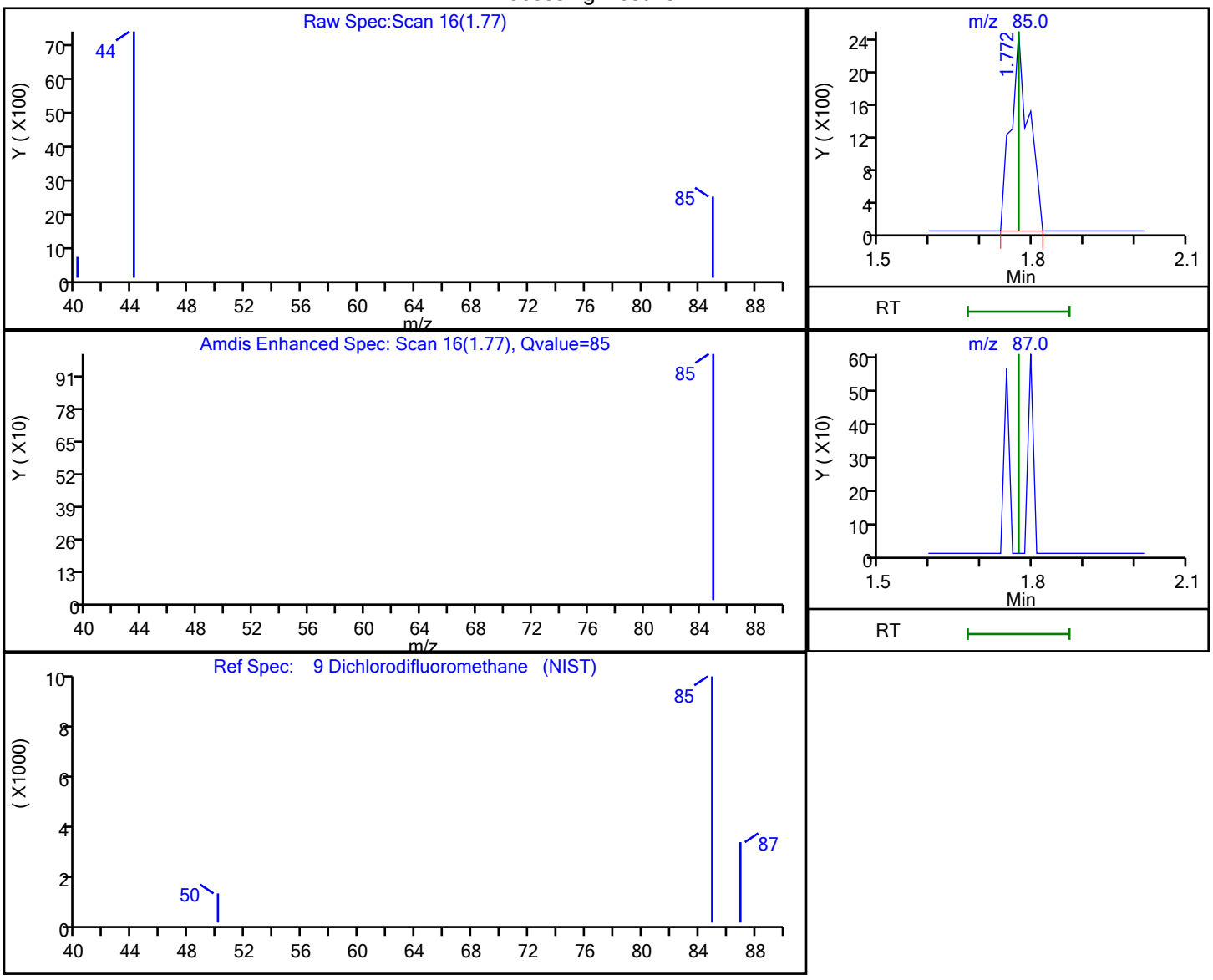
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992599.D				
Injection Date:	07-Jan-2021 12:44:30	Instrument ID:	A3UX9		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

9 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.77	85.00	5851	0.531464
1.77	87.00	0	

Reviewer: bosworthh, 08-Jan-2021 11:45:12

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

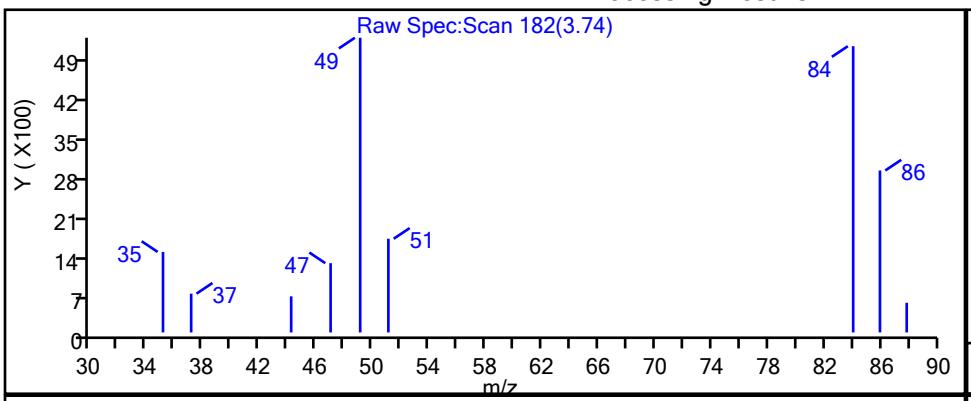
User Disabled Compound Report

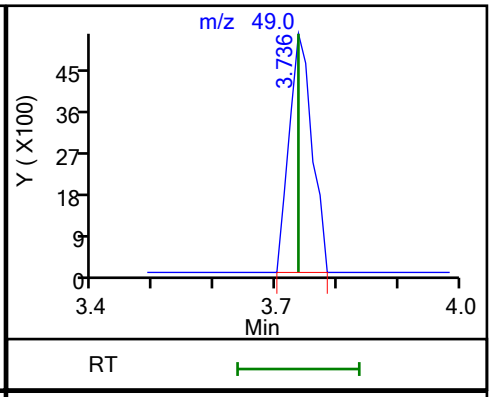
Eurofins TestAmerica, Canton

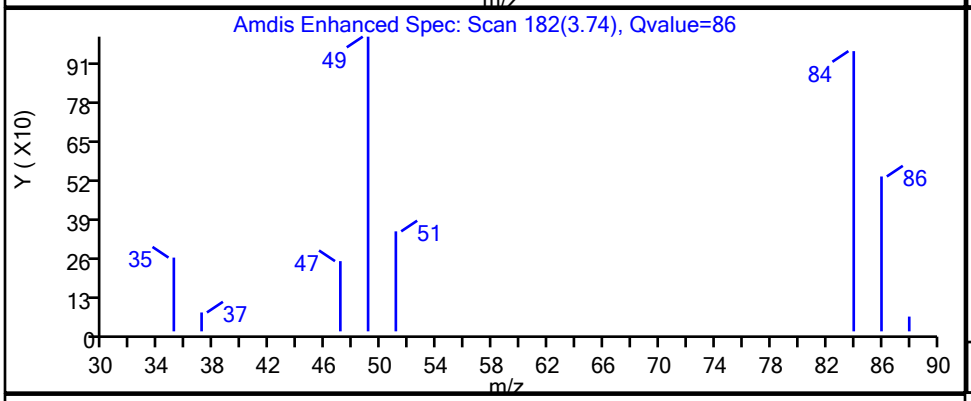
Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992599.D
Injection Date: 07-Jan-2021 12:44:30 Instrument ID: A3UX9
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_9 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

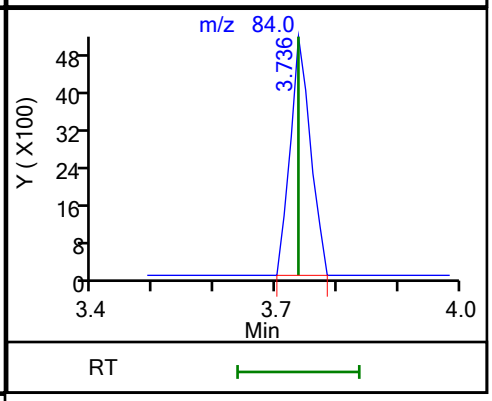
30 Methylene Chloride, CAS: 75-09-2

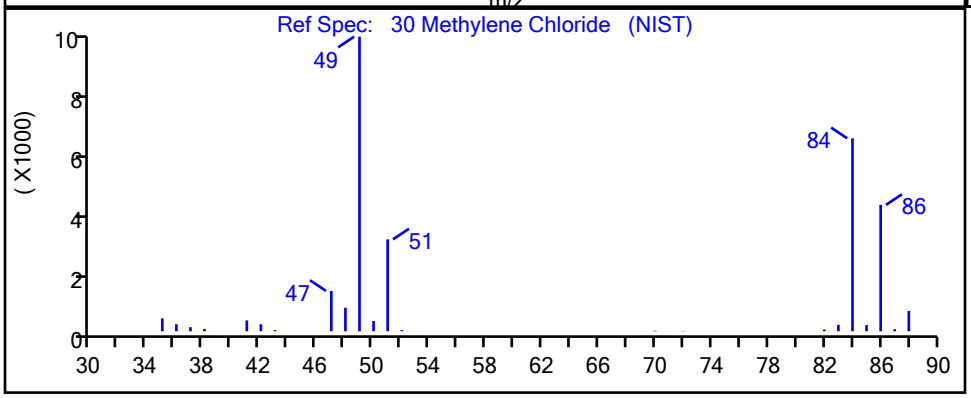
Processing Results











RT	Mass	Response	Amount
3.74	49.00	13734	0.462270
3.74	84.00	11777	

Reviewer: bosworthh, 08-Jan-2021 11:47:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

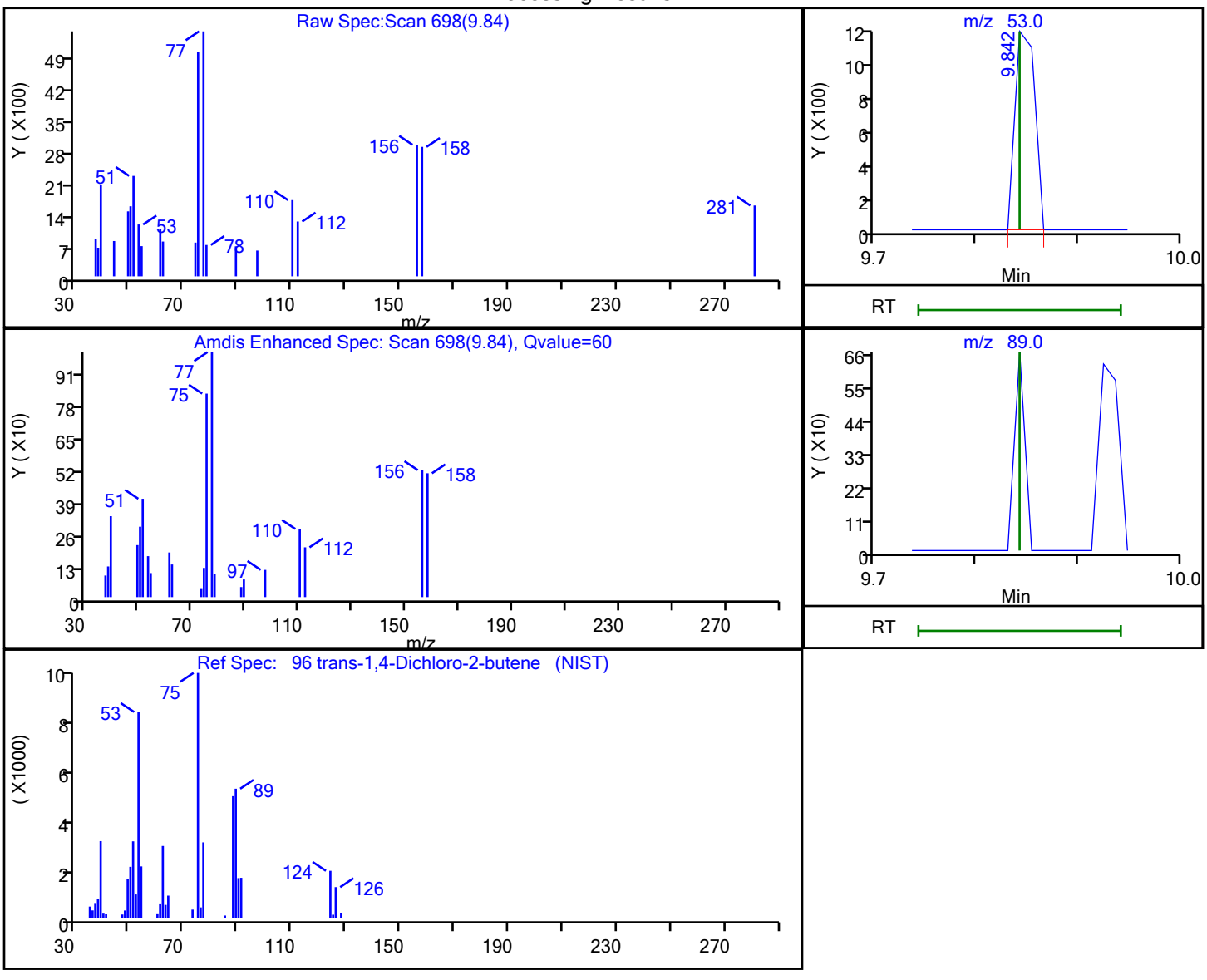
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992599.D				
Injection Date:	07-Jan-2021 12:44:30	Instrument ID:	A3UX9		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
9.84	53.00	1567	0.502352
9.84	89.00	0	

Reviewer: bosworthh, 08-Jan-2021 11:51:38

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

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992600.D
Lims ID: std8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-Jan-2021 13:07:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-009
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:07:43 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:02:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.865	5.865	0.000	99	993029	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.563	8.563	0.000	87	723743	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.811	0.000	96	410768	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.273	5.275	-0.002	91	14098	1.00	0.99	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.569	5.570	-0.001	98	17224	1.00	0.9731	
$ 6 Toluene-d8 (Surr)	98	7.249	7.251	-0.002	95	46403	1.00	0.9640	
$ 7 4-Bromofluorobenzene (Surr)	95	9.687	9.676	0.011	84	15589	1.00	0.9270	
9 Dichlorodifluoromethane	85	1.771	1.772	-0.001	96	13523	1.00	0.8046	
10 Chloromethane	50	1.996	1.985	0.011	95	16750	1.00	1.02	
11 Vinyl chloride	62	2.114	2.115	-0.001	64	13997	1.00	0.8716	
12 Butadiene	54	2.114	2.115	-0.001	89	14115	1.00	0.9200	
13 Bromomethane	94	2.457	2.446	0.011	90	12406	1.00	0.9175	
15 Chloroethane	64	2.540	2.541	-0.001	98	11289	1.00	0.9408	
16 Dichlorofluoromethane	67	2.753	2.742	0.011	98	28281	1.00	1.03	
17 Trichlorofluoromethane	101	2.812	2.825	-0.013	95	23531	1.00	0.8988	
18 Ethyl ether	59	3.072	3.062	0.010	88	11977	1.00	0.9662	
21 Acrolein	56	3.191	3.180	0.011	94	3191	5.00	4.91	
24 1,1-Dichloroethene	61	3.297	3.298	-0.001	98	20080	1.00	1.01	
22 112TCTFE	101	3.321	3.322	-0.001	80	10049	1.00	0.8462	
23 Acetone	58	3.333	3.334	-0.001	100	5438	2.00	2.39	
25 Iodomethane	142	3.439	3.440	-0.001	96	18523	1.00	0.9178	
26 Carbon disulfide	76	3.522	3.523	-0.001	98	32076	1.00	0.9158	
28 3-Chloro-1-propene	41	3.629	3.630	-0.001	87	19000	1.00	0.9630	
29 Methyl acetate	43	3.640	3.642	-0.002	97	30485	2.00	2.11	
30 Methylene Chloride	49	3.735	3.736	-0.001	90	22995	1.00	1.28	
31 2-Methyl-2-propanol	59	3.842	3.831	0.011	98	16652	10.0	9.95	
32 Acrylonitrile	53	3.960	3.949	0.011	99	59564	10.0	9.54	
34 trans-1,2-Dichloroethene	61	3.995	3.997	-0.002	66	18600	1.00	0.9843	
33 Methyl tert-butyl ether	73	3.995	3.997	-0.002	95	44871	1.00	0.9857	
35 Hexane	57	4.244	4.245	-0.001	92	10369	1.00	0.8445	
36 1,1-Dichloroethane	63	4.362	4.363	-0.001	96	24368	1.00	1.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.398	4.399	-0.001	97	23128	1.00	0.9478	
41 2-Butanone (MEK)	72	4.871	4.872	-0.001	88	4157	2.00	1.81	
43 cis-1,2-Dichloroethene	96	4.871	4.872	-0.001	81	16116	1.00	0.9656	
42 2,2-Dichloropropane	77	4.883	4.884	-0.001	66	14630	1.00	0.8873	
47 Chlorobromomethane	49	5.072	5.073	-0.001	88	12482	1.00	1.05	
48 Tetrahydrofuran	42	5.131	5.121	0.010	86	11976	2.00	2.15	
49 Chloroform	83	5.131	5.133	-0.002	97	24437	1.00	0.9459	
50 1,1,1-Trichloroethane	97	5.321	5.322	-0.001	95	19984	1.00	0.9022	
51 Cyclohexane	84	5.380	5.381	-0.001	86	15849	1.00	0.8558	
52 1,1-Dichloropropene	75	5.451	5.452	-0.001	93	17173	1.00	0.8923	
53 Carbon tetrachloride	117	5.474	5.464	0.010	88	15983	1.00	0.8679	
54 Isobutyl alcohol	41	5.510	5.499	0.011	88	13281	25.0	23.3	
55 Benzene	78	5.640	5.641	-0.001	94	56510	1.00	1.01	
56 1,2-Dichloroethane	62	5.640	5.641	-0.001	61	20713	1.00	0.9644	
58 n-Heptane	71	5.853	5.854	-0.001	36	14539	1.00	1.04	
60 Trichloroethene	130	6.184	6.186	-0.002	93	14545	1.00	0.9242	
62 Methylcyclohexane	83	6.374	6.363	0.011	85	15614	1.00	0.9225	
63 1,2-Dichloropropane	63	6.374	6.375	-0.001	81	11646	1.00	0.9661	
65 1,4-Dioxane	88	6.492	6.481	0.011	33	2282	20.0	14.3	
66 Dibromomethane	174	6.480	6.481	-0.001	94	8992	1.00	0.9017	
67 Dichlorobromomethane	83	6.599	6.600	-0.001	96	17293	1.00	0.9466	
69 2-Chloroethyl vinyl ether	63	6.847	6.848	-0.001	95	14720	2.00	1.75	
71 cis-1,3-Dichloropropene	75	6.989	6.990	-0.001	93	18757	1.00	0.8878	
72 4-Methyl-2-pentanone (MIBK)	43	7.119	7.120	-0.001	94	33021	2.00	2.03	
73 Toluene	91	7.309	7.310	-0.001	95	54586	1.00	0.9841	
74 trans-1,3-Dichloropropene	75	7.486	7.475	0.011	93	17653	1.00	0.9381	
75 Ethyl methacrylate	69	7.545	7.546	-0.001	88	13952	1.00	0.8931	
76 1,1,2-Trichloroethane	97	7.652	7.653	-0.001	87	12204	1.00	1.05	
77 1,3-Dichloropropane	76	7.806	7.807	-0.001	91	20758	1.00	0.99	
78 Tetrachloroethene	166	7.817	7.819	-0.002	87	12682	1.00	0.9662	
80 2-Hexanone	43	7.865	7.866	-0.001	95	19538	2.00	1.89	
82 Chlorodibromomethane	129	8.019	8.020	-0.001	80	11681	1.00	0.9504	
83 Ethylene Dibromide	107	8.149	8.138	0.011	99	11761	1.00	0.9473	
85 Chlorobenzene	112	8.598	8.600	-0.002	96	36077	1.00	1.00	
86 1,1,1,2-Tetrachloroethane	131	8.658	8.659	-0.001	87	12045	1.00	0.9213	
87 Ethylbenzene	106	8.693	8.694	-0.001	99	16101	1.00	0.8714	
88 m-Xylene & p-Xylene	106	8.799	8.801	-0.002	99	22648	1.00	0.9835	
89 o-Xylene	106	9.178	9.179	-0.001	96	22827	1.00	0.9648	
90 Styrene	104	9.190	9.179	0.011	93	31162	1.00	0.9328	
91 Bromoform	173	9.367	9.369	-0.002	90	6251	1.00	0.8083	
92 Isopropylbenzene	105	9.521	9.523	-0.002	94	53853	1.00	0.9343	
94 1,1,2,2-Tetrachloroethane	83	9.793	9.795	-0.002	95	16978	1.00	0.9375	
95 Bromobenzene	156	9.841	9.842	-0.001	94	13223	1.00	0.8849	
96 trans-1,4-Dichloro-2-butene	53	9.841	9.842	-0.001	68	4720	1.00	0.8569	
97 1,2,3-Trichloropropane	110	9.841	9.842	-0.001	83	5942	1.00	0.8568	
98 N-Propylbenzene	120	9.924	9.925	-0.001	99	13247	1.00	0.8625	
100 2-Chlorotoluene	126	10.018	10.019	-0.001	96	14730	1.00	1.01	
101 1,3,5-Trimethylbenzene	105	10.089	10.090	-0.001	94	42844	1.00	0.9083	
102 4-Chlorotoluene	126	10.125	10.126	-0.001	98	14036	1.00	0.9595	
104 tert-Butylbenzene	119	10.421	10.422	-0.001	91	37289	1.00	0.8850	
106 1,2,4-Trimethylbenzene	105	10.456	10.457	-0.001	93	44456	1.00	0.9053	
107 sec-Butylbenzene	134	10.634	10.635	-0.001	93	9476	1.00	0.8373	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.752	10.753	-0.001	95	26393	1.00	0.9040	
109 4-Isopropyltoluene	119	10.776	10.765	0.011	96	39514	1.00	0.8385	
110 1,4-Dichlorobenzene	146	10.835	10.836	-0.001	93	28680	1.00	0.9610	
113 n-Butylbenzene	91	11.178	11.179	-0.001	97	35045	1.00	0.9204	
114 1,2-Dichlorobenzene	146	11.213	11.215	-0.002	98	31179	1.00	1.03	
115 1,2-Dibromo-3-Chloropropane	157	11.971	11.972	-0.001	72	3189	1.00	0.8865	
117 1,2,4-Trichlorobenzene	180	12.823	12.824	-0.001	91	16951	1.00	0.9605	
118 Hexachlorobutadiene	225	13.000	13.001	-0.001	82	5040	1.00	0.9192	
119 Naphthalene	128	13.083	13.084	-0.001	97	58858	1.00	0.9202	
120 1,2,3-Trichlorobenzene	180	13.355	13.356	-0.001	94	15913	1.00	0.9484	
S 158 Total BTEX	1				0		5.00	4.81	
S 128 1,2-Dichloroethene, Total	96				0			1.95	
S 129 1,3-Dichloropropene, Total	75				0			1.83	
S 130 Trihalomethanes, Total	83				0		4.00	3.65	
S 131 Xylenes, Total	106				0		2.00	1.95	

QC Flag Legend

Processing Flags

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vmrgas_00368	Amount Added:	0.80	Units: uL
vmarolistdw_00375	Amount Added:	0.80	Units: uL
vmrprimw_00418	Amount Added:	0.80	Units: uL
vm50ss_00431	Amount Added:	0.80	Units: uL

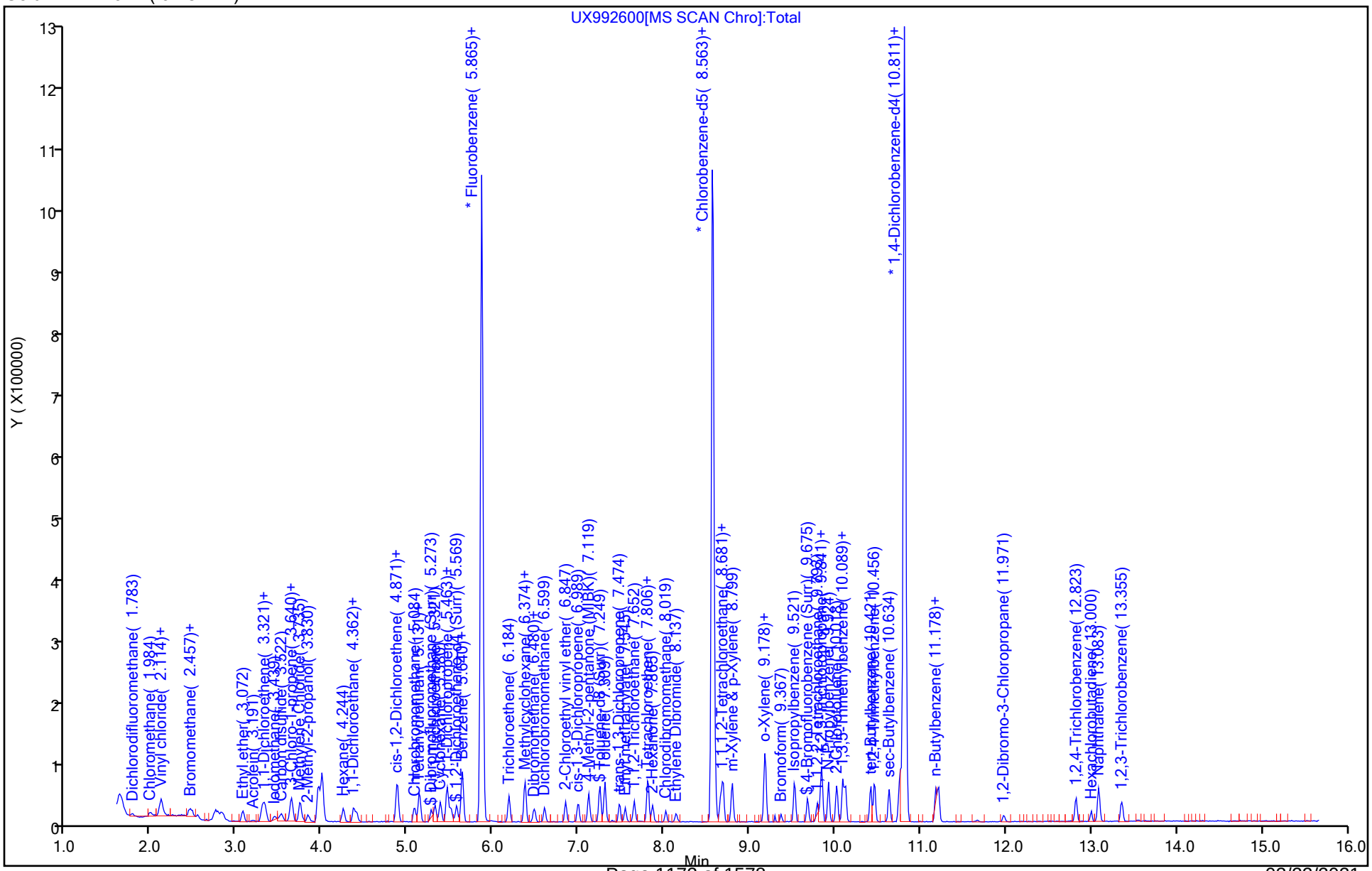
Report Date: 08-Jan-2021 14:07:44 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992600.D

Injection Date:	07-Jan-2021 13:07:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	std8260 L2			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992601.D
Lims ID: std8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-Jan-2021 13:29:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-010
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:07:50 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:02:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.866	5.865	0.001	98	1002946	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.564	8.563	0.001	87	745049	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.812	10.811	0.001	95	433838	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.274	5.275	-0.001	93	154402	10.0	10.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.570	5.570	0.000	99	191978	10.0	10.7	
$ 6 Toluene-d8 (Surr)	98	7.250	7.251	-0.001	93	522519	10.0	10.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.676	9.676	0.000	88	183620	10.0	10.6	
9 Dichlorodifluoromethane	85	1.772	1.772	0.000	100	179162	10.0	10.6	
10 Chloromethane	50	1.973	1.985	-0.012	99	171928	10.0	10.4	
11 Vinyl chloride	62	2.103	2.115	-0.012	72	177650	10.0	11.0	
12 Butadiene	54	2.115	2.115	0.000	92	160804	10.0	10.4	
13 Bromomethane	94	2.446	2.446	0.000	90	148749	10.0	10.9	
15 Chloroethane	64	2.541	2.541	0.000	100	132533	10.0	10.9	
16 Dichlorofluoromethane	67	2.742	2.742	0.000	98	304663	10.0	10.9	
17 Trichlorofluoromethane	101	2.813	2.825	-0.012	98	284893	10.0	10.8	
18 Ethyl ether	59	3.073	3.062	0.011	89	132674	10.0	10.6	
21 Acrolein	56	3.180	3.180	0.000	99	30431	50.0	46.3	
24 1,1-Dichloroethene	61	3.298	3.298	0.000	99	211583	10.0	10.5	
22 112TCTFE	101	3.322	3.322	0.000	95	135044	10.0	11.3	
23 Acetone	58	3.334	3.334	0.000	99	26603	20.0	17.0	
25 Iodomethane	142	3.440	3.440	0.000	100	217947	10.0	10.7	
26 Carbon disulfide	76	3.511	3.523	-0.012	100	381331	10.0	10.8	
28 3-Chloro-1-propene	41	3.629	3.630	-0.001	87	210114	10.0	10.5	
29 Methyl acetate	43	3.641	3.642	-0.001	96	292307	20.0	20.0	
30 Methylene Chloride	49	3.736	3.736	0.000	89	182988	10.0	10.1	
31 2-Methyl-2-propanol	59	3.831	3.831	0.000	99	166858	100.0	98.8	
32 Acrylonitrile	53	3.949	3.949	0.000	98	633648	100.0	100.5	
34 trans-1,2-Dichloroethene	61	3.996	3.997	-0.001	65	203516	10.0	10.7	
33 Methyl tert-butyl ether	73	3.996	3.997	-0.001	95	459903	10.0	10.0	
35 Hexane	57	4.245	4.245	0.000	94	133295	10.0	10.7	
36 1,1-Dichloroethane	63	4.363	4.363	0.000	98	256595	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.399	4.399	0.000	97	257939	10.0	10.5	
41 2-Butanone (MEK)	72	4.872	4.872	0.000	71	44969	20.0	19.4	
43 cis-1,2-Dichloroethene	96	4.872	4.872	0.000	84	173345	10.0	10.3	
42 2,2-Dichloropropane	77	4.884	4.884	0.000	88	183283	10.0	11.0	
47 Chlorobromomethane	49	5.073	5.073	0.000	93	130470	10.0	10.8	
48 Tetrahydrofuran	42	5.120	5.121	-0.001	83	106138	20.0	18.9	
49 Chloroform	83	5.132	5.133	-0.001	96	282634	10.0	10.8	
50 1,1,1-Trichloroethane	97	5.322	5.322	0.000	98	238306	10.0	10.7	
51 Cyclohexane	84	5.381	5.381	0.000	88	210758	10.0	11.3	
52 1,1-Dichloropropene	75	5.452	5.452	0.000	95	212953	10.0	11.0	
53 Carbon tetrachloride	117	5.464	5.464	0.000	98	198498	10.0	10.7	
54 Isobutyl alcohol	41	5.499	5.499	0.000	93	138790	250.0	241.4	
55 Benzene	78	5.641	5.641	0.000	96	601269	10.0	10.7	
56 1,2-Dichloroethane	62	5.641	5.641	0.000	61	230120	10.0	10.6	
58 n-Heptane	71	5.854	5.854	0.000	88	74492	10.0	9.95	
60 Trichloroethene	130	6.185	6.186	-0.001	96	169044	10.0	10.6	
62 Methylcyclohexane	83	6.363	6.363	0.000	89	188169	10.0	11.0	
63 1,2-Dichloropropane	63	6.375	6.375	0.000	89	127207	10.0	10.4	
66 Dibromomethane	174	6.481	6.481	0.000	94	100461	10.0	9.97	
65 1,4-Dioxane	88	6.481	6.481	0.000	40	29009	200.0	179.4	
67 Dichlorobromomethane	83	6.600	6.600	0.000	98	188969	10.0	10.2	
69 2-Chloroethyl vinyl ether	63	6.848	6.848	0.000	95	171595	20.0	20.2	
71 cis-1,3-Dichloropropene	75	6.990	6.990	0.000	94	222482	10.0	10.4	
72 4-Methyl-2-pentanone (MIBK)	43	7.120	7.120	0.000	95	339981	20.0	20.7	
73 Toluene	91	7.309	7.310	-0.001	98	601503	10.0	10.5	
74 trans-1,3-Dichloropropene	75	7.475	7.475	0.000	95	207098	10.0	10.7	
75 Ethyl methacrylate	69	7.546	7.546	0.000	87	168675	10.0	10.5	
76 1,1,2-Trichloroethane	97	7.653	7.653	0.000	94	125821	10.0	10.5	
77 1,3-Dichloropropane	76	7.806	7.807	-0.001	89	224346	10.0	10.4	
78 Tetrachloroethene	166	7.818	7.819	-0.001	92	140559	10.0	10.4	
80 2-Hexanone	43	7.866	7.866	0.000	95	221937	20.0	20.9	
82 Chlorodibromomethane	129	8.019	8.020	-0.001	89	126303	10.0	9.98	
83 Ethylene Dibromide	107	8.138	8.138	0.000	98	135345	10.0	10.6	
85 Chlorobenzene	112	8.599	8.600	-0.001	96	385396	10.0	10.4	
86 1,1,1,2-Tetrachloroethane	131	8.658	8.659	-0.001	93	137926	10.0	10.2	
87 Ethylbenzene	106	8.694	8.694	0.000	98	203900	10.0	10.7	
88 m-Xylene & p-Xylene	106	8.800	8.801	-0.001	99	250041	10.0	10.5	
89 o-Xylene	106	9.179	9.179	0.000	95	258087	10.0	10.6	
90 Styrene	104	9.191	9.179	0.012	93	358504	10.0	10.4	
91 Bromoform	173	9.368	9.369	-0.001	92	83265	10.0	10.5	
92 Isopropylbenzene	105	9.522	9.523	-0.001	96	643893	10.0	10.9	
94 1,1,2,2-Tetrachloroethane	83	9.794	9.795	-0.001	97	190473	10.0	9.96	
95 Bromobenzene	156	9.842	9.842	0.000	96	163465	10.0	10.4	
96 trans-1,4-Dichloro-2-butene	53	9.842	9.842	0.000	71	57625	10.0	9.90	
97 1,2,3-Trichloropropane	110	9.842	9.842	0.000	83	76602	10.0	10.5	
98 N-Propylbenzene	120	9.925	9.925	0.000	99	171349	10.0	10.6	
100 2-Chlorotoluene	126	10.019	10.019	0.000	96	158989	10.0	10.3	
101 1,3,5-Trimethylbenzene	105	10.090	10.090	0.000	95	517616	10.0	10.4	
102 4-Chlorotoluene	126	10.126	10.126	0.000	97	163715	10.0	10.6	
104 tert-Butylbenzene	119	10.422	10.422	0.000	91	435104	10.0	9.78	
106 1,2,4-Trimethylbenzene	105	10.457	10.457	0.000	95	545715	10.0	10.5	
107 sec-Butylbenzene	134	10.635	10.635	-0.001	94	126449	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.753	10.753	0.000	97	320894	10.0	10.4	
109 4-Isopropyltoluene	119	10.777	10.765	0.011	97	529628	10.0	10.6	
110 1,4-Dichlorobenzene	146	10.836	10.836	0.000	95	330908	10.0	10.5	
113 n-Butylbenzene	91	11.179	11.179	0.000	97	424959	10.0	10.6	
114 1,2-Dichlorobenzene	146	11.214	11.215	-0.001	97	338372	10.0	10.6	
115 1,2-Dibromo-3-Chloropropane	157	11.972	11.972	0.000	84	52348	10.0	9.47	
117 1,2,4-Trichlorobenzene	180	12.824	12.824	0.000	94	194567	10.0	10.4	
118 Hexachlorobutadiene	225	13.001	13.001	0.000	97	59164	10.0	10.2	
119 Naphthalene	128	13.084	13.084	0.000	97	710728	10.0	10.5	
120 1,2,3-Trichlorobenzene	180	13.356	13.356	0.000	94	187855	10.0	10.6	
S 158 Total BTEX	1				0		50.0	53.0	
S 128 1,2-Dichloroethene, Total	96				0			20.9	
S 129 1,3-Dichloropropene, Total	75				0			21.1	
S 130 Trihalomethanes, Total	83				0		40.0	41.5	
S 131 Xylenes, Total	106				0		20.0	21.1	

QC Flag Legend

Processing Flags

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vmrgas_00368	Amount Added:	8.00	Units: uL
vmarolistdw_00375	Amount Added:	8.00	Units: uL
vmrprimw_00418	Amount Added:	8.00	Units: uL
vm50ss_00431	Amount Added:	8.00	Units: uL

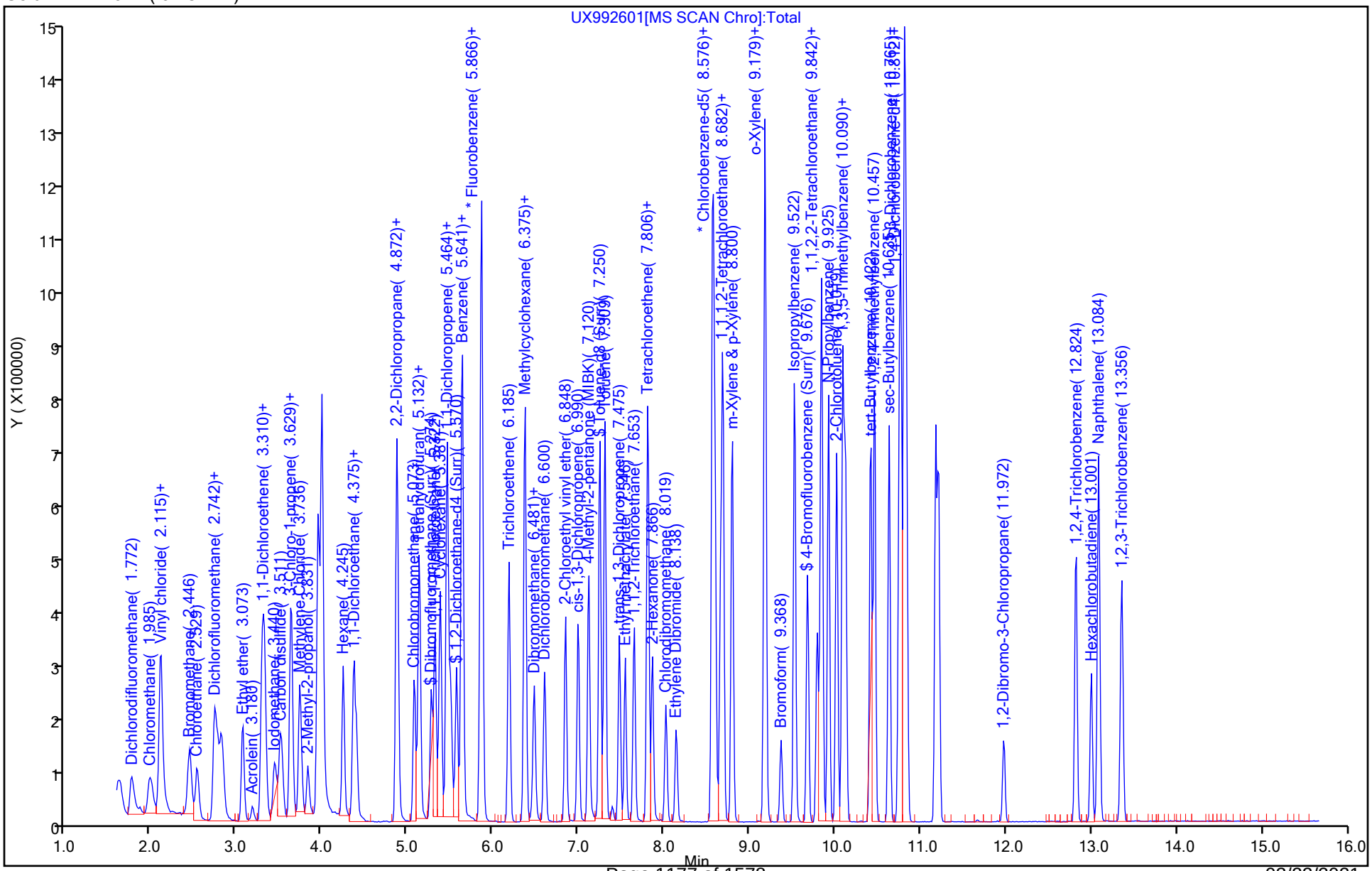
Report Date: 08-Jan-2021 14:07:52 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992601.D

Injection Date:	07-Jan-2021 13:29:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	std8260 L3			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992602.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 07-Jan-2021 13:52:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-011
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:07:59 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:03:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.866	5.866	0.000	98	1096535	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.564	8.564	0.000	86	821576	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.812	10.812	0.000	94	476094	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.275	5.275	0.000	93	305884	20.0	19.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.570	5.570	0.000	100	393485	20.0	20.1	
$ 6 Toluene-d8 (Surr)	98	7.251	7.251	0.000	93	1100433	20.0	20.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.676	9.676	0.000	87	389037	20.0	20.4	
9 Dichlorodifluoromethane	85	1.772	1.772	0.000	100	369659	20.0	19.9	
10 Chloromethane	50	1.985	1.985	0.000	100	355355	20.0	19.7	
11 Vinyl chloride	62	2.115	2.115	0.000	71	372832	20.0	21.0	
12 Butadiene	54	2.115	2.115	0.000	92	338275	20.0	20.0	
13 Bromomethane	94	2.446	2.446	0.000	92	312623	20.0	20.9	
15 Chloroethane	64	2.541	2.541	0.000	99	270482	20.0	20.4	
16 Dichlorofluoromethane	67	2.742	2.742	0.000	99	607509	20.0	20.0	
17 Trichlorofluoromethane	101	2.825	2.825	0.000	99	586770	20.0	20.3	
18 Ethyl ether	59	3.062	3.062	0.000	90	277871	20.0	20.3	
21 Acrolein	56	3.180	3.180	0.000	99	65815	100.0	91.6	
24 1,1-Dichloroethene	61	3.298	3.298	0.000	99	441742	20.0	20.1	
22 112TCTFE	101	3.322	3.322	0.000	96	277284	20.0	21.1	
23 Acetone	58	3.334	3.334	0.000	99	53967	40.0	32.7	
25 Iodomethane	142	3.440	3.440	0.000	99	463834	20.0	20.8	
26 Carbon disulfide	76	3.523	3.523	0.000	100	790414	20.0	20.4	
28 3-Chloro-1-propene	41	3.630	3.630	0.000	86	428776	20.0	19.7	
29 Methyl acetate	43	3.642	3.642	0.000	97	606533	40.0	38.0	
30 Methylene Chloride	49	3.736	3.736	0.000	90	373191	20.0	18.8	
31 2-Methyl-2-propanol	59	3.831	3.831	0.000	98	329720	200.0	178.5	
32 Acrylonitrile	53	3.949	3.949	0.000	98	1438141	200.0	208.6	
34 trans-1,2-Dichloroethene	61	3.997	3.997	0.000	64	416732	20.0	20.0	
33 Methyl tert-butyl ether	73	3.997	3.997	0.000	95	969069	20.0	19.3	
35 Hexane	57	4.245	4.245	0.000	93	289083	20.0	21.3	
36 1,1-Dichloroethane	63	4.363	4.363	0.000	97	530628	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.399	4.399	0.000	97	535367	20.0	19.9	
41 2-Butanone (MEK)	72	4.872	4.872	0.000	74	94277	40.0	37.1	
43 cis-1,2-Dichloroethene	96	4.872	4.872	0.000	84	369896	20.0	20.1	
42 2,2-Dichloropropane	77	4.884	4.884	0.000	88	377949	20.0	20.8	
47 Chlorobromomethane	49	5.073	5.073	0.000	87	271822	20.0	20.6	
48 Tetrahydrofuran	42	5.121	5.121	0.000	83	219413	40.0	35.6	
49 Chloroform	83	5.133	5.133	0.000	97	581026	20.0	20.4	
50 1,1,1-Trichloroethane	97	5.322	5.322	0.000	97	498536	20.0	20.4	
51 Cyclohexane	84	5.381	5.381	0.000	88	431407	20.0	21.1	
52 1,1-Dichloropropene	75	5.452	5.452	0.000	95	441932	20.0	20.8	
53 Carbon tetrachloride	117	5.464	5.464	0.000	98	432762	20.0	21.3	
54 Isobutyl alcohol	41	5.499	5.499	0.000	92	295154	500.0	469.6	
55 Benzene	78	5.641	5.641	0.000	96	1248554	20.0	20.2	
56 1,2-Dichloroethane	62	5.641	5.641	0.000	62	477951	20.0	20.2	
58 n-Heptane	71	5.854	5.854	0.000	83	149853	20.0	19.3	
60 Trichloroethene	130	6.186	6.186	0.000	96	354755	20.0	20.4	
62 Methylcyclohexane	83	6.363	6.363	0.000	88	393615	20.0	21.1	
63 1,2-Dichloropropane	63	6.375	6.375	0.000	90	267093	20.0	20.1	
65 1,4-Dioxane	88	6.481	6.481	0.000	40	75093	400.0	424.7	
66 Dibromomethane	174	6.481	6.481	0.000	94	218879	20.0	19.9	
67 Dichlorobromomethane	83	6.600	6.600	0.000	99	402429	20.0	19.9	
69 2-Chloroethyl vinyl ether	63	6.848	6.848	0.000	95	370042	40.0	39.8	
71 cis-1,3-Dichloropropene	75	6.990	6.990	0.000	94	478588	20.0	20.5	
72 4-Methyl-2-pentanone (MIBK)	43	7.120	7.120	0.000	95	717269	40.0	39.9	
73 Toluene	91	7.310	7.310	0.000	98	1270161	20.0	20.2	
74 trans-1,3-Dichloropropene	75	7.475	7.475	0.000	94	439363	20.0	20.6	
75 Ethyl methacrylate	69	7.546	7.546	0.000	87	377178	20.0	21.3	
76 1,1,2-Trichloroethane	97	7.653	7.653	0.000	93	268408	20.0	20.3	
77 1,3-Dichloropropane	76	7.807	7.807	0.000	90	474440	20.0	20.0	
78 Tetrachloroethene	166	7.819	7.819	0.000	98	307718	20.0	20.7	
80 2-Hexanone	43	7.866	7.866	0.000	95	481993	40.0	41.1	
82 Chlorodibromomethane	129	8.020	8.020	0.000	89	281530	20.0	20.2	
83 Ethylene Dibromide	107	8.138	8.138	0.000	98	294533	20.0	20.9	
85 Chlorobenzene	112	8.600	8.600	0.000	95	814868	20.0	20.0	
86 1,1,1,2-Tetrachloroethane	131	8.659	8.659	0.000	94	304448	20.0	20.5	
87 Ethylbenzene	106	8.694	8.694	0.000	98	435010	20.0	20.7	
88 m-Xylene & p-Xylene	106	8.801	8.801	0.000	99	536748	20.0	20.5	
89 o-Xylene	106	9.179	9.179	0.000	97	545286	20.0	20.3	
90 Styrene	104	9.179	9.179	0.000	92	778987	20.0	20.5	
91 Bromoform	173	9.369	9.369	0.000	95	184424	20.0	21.0	
92 Isopropylbenzene	105	9.523	9.523	0.000	96	1361614	20.0	20.8	
94 1,1,2,2-Tetrachloroethane	83	9.795	9.795	0.000	98	411590	20.0	19.6	
95 Bromobenzene	156	9.842	9.842	0.000	96	346122	20.0	20.0	
96 trans-1,4-Dichloro-2-butene	53	9.842	9.842	0.000	71	128296	20.0	20.1	
97 1,2,3-Trichloropropane	110	9.842	9.842	0.000	83	162154	20.0	20.2	
98 N-Propylbenzene	120	9.925	9.925	0.000	99	360809	20.0	20.3	
100 2-Chlorotoluene	126	10.019	10.019	0.000	96	332345	20.0	19.7	
101 1,3,5-Trimethylbenzene	105	10.090	10.090	0.000	95	1101273	20.0	20.1	
102 4-Chlorotoluene	126	10.126	10.126	0.000	97	341712	20.0	20.2	
104 tert-Butylbenzene	119	10.422	10.422	0.000	91	1063802	20.0	21.8	
106 1,2,4-Trimethylbenzene	105	10.457	10.457	0.000	96	1159165	20.0	20.4	
107 sec-Butylbenzene	134	10.635	10.635	0.000	94	274340	20.0	20.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.753	10.753	0.000	97	674834	20.0	19.9	
109 4-Isopropyltoluene	119	10.765	10.765	0.000	97	1138961	20.0	20.9	
110 1,4-Dichlorobenzene	146	10.836	10.836	0.000	94	704434	20.0	20.4	
113 n-Butylbenzene	91	11.179	11.179	0.000	97	913763	20.0	20.7	
114 1,2-Dichlorobenzene	146	11.215	11.215	0.000	98	703535	20.0	20.1	
115 1,2-Dibromo-3-Chloropropane	157	11.972	11.972	0.000	84	117020	20.0	19.0	
117 1,2,4-Trichlorobenzene	180	12.824	12.824	0.000	94	412639	20.0	20.2	
118 Hexachlorobutadiene	225	13.001	13.001	0.000	97	130548	20.0	20.5	
119 Naphthalene	128	13.084	13.084	0.000	97	1490475	20.0	20.1	
120 1,2,3-Trichlorobenzene	180	13.356	13.356	0.000	95	385383	20.0	19.8	
S 158 Total BTEX	1				0		100.0	102.0	
S 130 Trihalomethanes, Total	83				0		80.0	81.5	
S 131 Xylenes, Total	106				0		40.0	40.8	

QC Flag Legend

Processing Flags

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vmrgas_00368	Amount Added:	16.00	Units: uL
vmarolistdw_00375	Amount Added:	16.00	Units: uL
vmrprimw_00418	Amount Added:	16.00	Units: uL
vm50ss_00431	Amount Added:	16.00	Units: uL

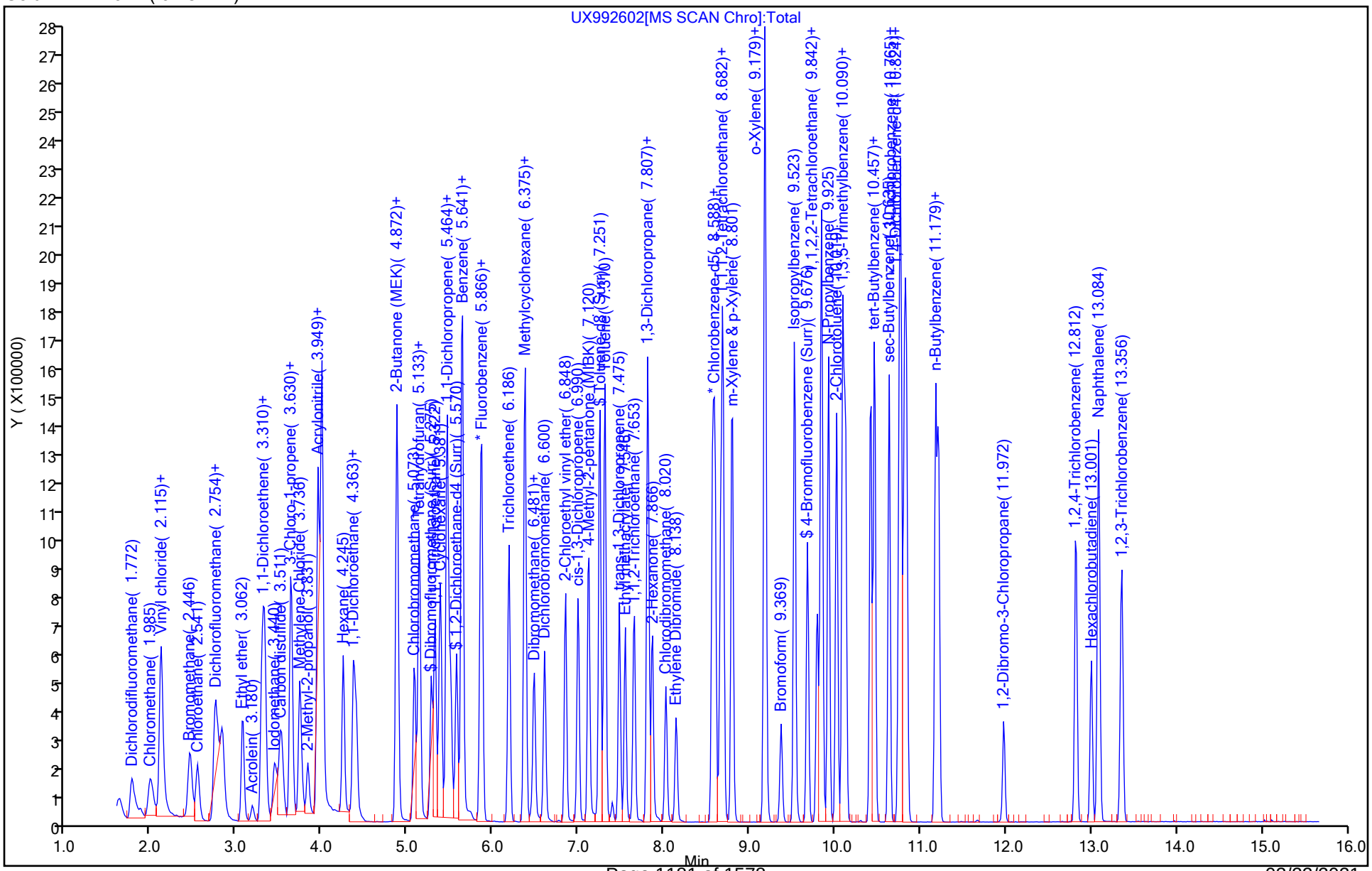
Report Date: 08-Jan-2021 14:08:02 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992602.D

Injection Date:	07-Jan-2021 13:52:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	ICIS L4			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992603.D
Lims ID: std8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 07-Jan-2021 14:14:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-012
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:08:10 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:04:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.865	5.866	-0.001	99	1139450	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.563	8.564	-0.001	86	862602	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.812	-0.001	94	479051	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.273	5.275	-0.002	93	484645	30.0	29.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.569	5.570	-0.001	99	615059	30.0	30.3	
$ 6 Toluene-d8 (Surr)	98	7.249	7.251	-0.002	93	1726508	30.0	30.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.676	-0.001	88	603577	30.0	30.1	
9 Dichlorodifluoromethane	85	1.771	1.772	-0.001	100	591236	30.0	30.7	
10 Chloromethane	50	1.984	1.985	-0.001	99	560444	30.0	29.9	
11 Vinyl chloride	62	2.102	2.115	-0.013	99	596015	30.0	32.3	
12 Butadiene	54	2.102	2.115	-0.013	91	545589	30.0	31.0	
13 Bromomethane	94	2.445	2.446	-0.001	91	474673	30.0	30.6	
15 Chloroethane	64	2.528	2.541	-0.013	99	412828	30.0	30.0	
16 Dichlorofluoromethane	67	2.741	2.742	-0.001	99	933396	30.0	29.5	
17 Trichlorofluoromethane	101	2.812	2.825	-0.013	99	939080	30.0	31.3	
18 Ethyl ether	59	3.072	3.062	0.010	89	422141	30.0	29.7	
21 Acrolein	56	3.191	3.180	0.011	99	119514	150.0	160.1	
24 1,1-Dichloroethene	61	3.297	3.298	-0.001	99	671717	30.0	29.5	
22 112TCTFE	101	3.309	3.322	-0.013	96	422882	30.0	31.0	
23 Acetone	58	3.333	3.334	-0.001	99	105949	60.0	63.0	
25 Iodomethane	142	3.451	3.440	0.011	100	727906	30.0	31.4	
26 Carbon disulfide	76	3.510	3.523	-0.013	100	1242789	30.0	30.9	
28 3-Chloro-1-propene	41	3.629	3.630	-0.001	87	670459	30.0	29.6	
29 Methyl acetate	43	3.640	3.642	-0.002	96	988502	60.0	59.7	
30 Methylene Chloride	49	3.735	3.736	-0.001	89	576114	30.0	27.9	
31 2-Methyl-2-propanol	59	3.842	3.831	0.011	99	686826	300.0	357.8	
32 Acrylonitrile	53	3.948	3.949	-0.001	97	2212983	300.0	308.9	
34 trans-1,2-Dichloroethene	61	3.995	3.997	-0.002	98	647485	30.0	29.9	
33 Methyl tert-butyl ether	73	3.995	3.997	-0.002	95	1621690	30.0	31.0	
35 Hexane	57	4.244	4.245	-0.001	93	432892	30.0	30.7	
36 1,1-Dichloroethane	63	4.362	4.363	-0.001	97	827315	30.0	30.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.398	4.399	-0.001	97	848782	30.0	30.3	
41 2-Butanone (MEK)	72	4.871	4.872	-0.001	82	165856	60.0	62.8	
43 cis-1,2-Dichloroethene	96	4.871	4.872	-0.001	84	563863	30.0	29.4	
42 2,2-Dichloropropane	77	4.883	4.884	-0.001	88	594600	30.0	31.4	
47 Chlorobromomethane	49	5.072	5.073	-0.001	87	420534	30.0	30.7	
48 Tetrahydrofuran	42	5.131	5.121	0.010	83	388996	60.0	60.8	
49 Chloroform	83	5.143	5.133	0.010	96	888133	30.0	30.0	
50 1,1,1-Trichloroethane	97	5.321	5.322	-0.001	97	802571	30.0	31.6	
51 Cyclohexane	84	5.380	5.381	-0.001	87	661272	30.0	31.1	
52 1,1-Dichloropropene	75	5.463	5.452	0.011	96	692330	30.0	31.4	
53 Carbon tetrachloride	117	5.474	5.464	0.010	98	680341	30.0	32.2	
54 Isobutyl alcohol	41	5.510	5.499	0.011	90	537952	750.0	823.6	
55 Benzene	78	5.640	5.641	-0.001	96	1919650	30.0	29.9	
56 1,2-Dichloroethane	62	5.640	5.641	-0.001	62	738741	30.0	30.0	
58 n-Heptane	71	5.853	5.854	-0.001	81	224884	30.0	28.3	
60 Trichloroethene	130	6.184	6.186	-0.002	95	545866	30.0	30.2	
62 Methylcyclohexane	83	6.374	6.363	0.011	90	608870	30.0	31.4	
63 1,2-Dichloropropane	63	6.374	6.375	-0.001	91	421513	30.0	30.5	
66 Dibromomethane	174	6.480	6.481	-0.001	95	351977	30.0	30.8	
65 1,4-Dioxane	88	6.480	6.481	-0.001	87	129317	600.0	703.9	
67 Dichlorobromomethane	83	6.599	6.600	-0.001	98	639963	30.0	30.5	
69 2-Chloroethyl vinyl ether	63	6.847	6.848	-0.001	94	607654	60.0	63.0	
71 cis-1,3-Dichloropropene	75	6.989	6.990	-0.001	94	767316	30.0	31.7	
72 4-Methyl-2-pentanone (MIBK)	43	7.119	7.120	-0.001	95	1163674	60.0	62.2	
73 Toluene	91	7.309	7.310	-0.001	98	1994135	30.0	30.2	
74 trans-1,3-Dichloropropene	75	7.474	7.475	-0.001	95	712369	30.0	31.8	
75 Ethyl methacrylate	69	7.545	7.546	-0.001	88	593683	30.0	31.9	
76 1,1,2-Trichloroethane	97	7.652	7.653	-0.001	93	421989	30.0	30.4	
77 1,3-Dichloropropane	76	7.806	7.807	-0.001	92	742093	30.0	29.8	
78 Tetrachloroethene	166	7.817	7.819	-0.002	94	484038	30.0	30.9	
80 2-Hexanone	43	7.865	7.866	-0.001	95	766334	60.0	62.3	
82 Chlorodibromomethane	129	8.019	8.020	-0.001	90	461619	30.0	31.5	
83 Ethylene Dibromide	107	8.137	8.138	-0.001	99	464772	30.0	31.4	
85 Chlorobenzene	112	8.598	8.600	-0.002	96	1267452	30.0	29.6	
86 1,1,1,2-Tetrachloroethane	131	8.658	8.659	-0.001	94	495025	30.0	31.8	
87 Ethylbenzene	106	8.693	8.694	-0.001	98	682095	30.0	31.0	
88 m-Xylene & p-Xylene	106	8.799	8.801	-0.002	99	829848	30.0	30.2	
89 o-Xylene	106	9.178	9.179	-0.001	97	874999	30.0	31.0	
90 Styrene	104	9.190	9.179	0.011	92	1248842	30.0	31.4	
91 Bromoform	173	9.367	9.369	-0.002	94	299810	30.0	32.5	
92 Isopropylbenzene	105	9.521	9.523	-0.002	96	2121814	30.0	30.9	
94 1,1,2,2-Tetrachloroethane	83	9.793	9.795	-0.002	96	667082	30.0	31.6	
95 Bromobenzene	156	9.841	9.842	-0.001	96	546980	30.0	31.4	
96 trans-1,4-Dichloro-2-butene	53	9.841	9.842	-0.001	72	199062	30.0	31.0	
97 1,2,3-Trichloropropane	110	9.841	9.842	-0.001	83	252357	30.0	31.2	
98 N-Propylbenzene	120	9.924	9.925	-0.001	99	565553	30.0	31.6	
100 2-Chlorotoluene	126	10.018	10.019	-0.001	96	519479	30.0	30.6	
101 1,3,5-Trimethylbenzene	105	10.089	10.090	-0.001	95	1751540	30.0	31.8	
102 4-Chlorotoluene	126	10.125	10.126	-0.001	98	524029	30.0	30.7	
104 tert-Butylbenzene	119	10.421	10.422	-0.001	91	1556192	30.0	31.7	
106 1,2,4-Trimethylbenzene	105	10.456	10.457	-0.001	95	1810833	30.0	31.6	
107 sec-Butylbenzene	134	10.634	10.635	-0.001	94	429972	30.0	32.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.752	10.753	-0.001	98	1046490	30.0	30.7	
109 4-Isopropyltoluene	119	10.776	10.765	0.011	97	1766729	30.0	32.1	
110 1,4-Dichlorobenzene	146	10.835	10.836	-0.001	94	1084006	30.0	31.1	
113 n-Butylbenzene	91	11.178	11.179	-0.001	97	1417830	30.0	31.9	
114 1,2-Dichlorobenzene	146	11.213	11.215	-0.002	97	1090858	30.0	31.0	
115 1,2-Dibromo-3-Chloropropane	157	11.983	11.972	0.010	87	192564	30.0	30.9	
117 1,2,4-Trichlorobenzene	180	12.823	12.824	-0.001	94	652085	30.0	31.7	
118 Hexachlorobutadiene	225	13.000	13.001	-0.001	97	203711	30.0	31.9	
119 Naphthalene	128	13.083	13.084	-0.001	97	2410458	30.0	32.3	
120 1,2,3-Trichlorobenzene	180	13.355	13.356	-0.001	95	628044	30.0	32.1	
S 158 Total BTEX	1				0		150.0	152.3	
S 128 1,2-Dichloroethene, Total	96				0			59.3	
S 129 1,3-Dichloropropene, Total	75				0			63.4	
S 130 Trihalomethanes, Total	83				0		120.0	124.5	
S 131 Xylenes, Total	106				0		60.0	61.3	

QC Flag Legend

Processing Flags

Reagents:

vmrgas_00368	Amount Added:	24.00	Units: uL
vmarolistdw_00375	Amount Added:	24.00	Units: uL
vmrprimw_00418	Amount Added:	24.00	Units: uL
vm50ss_00431	Amount Added:	24.00	Units: uL
vm100is_stk_a_00006	Amount Added:	1.00	Units: uL

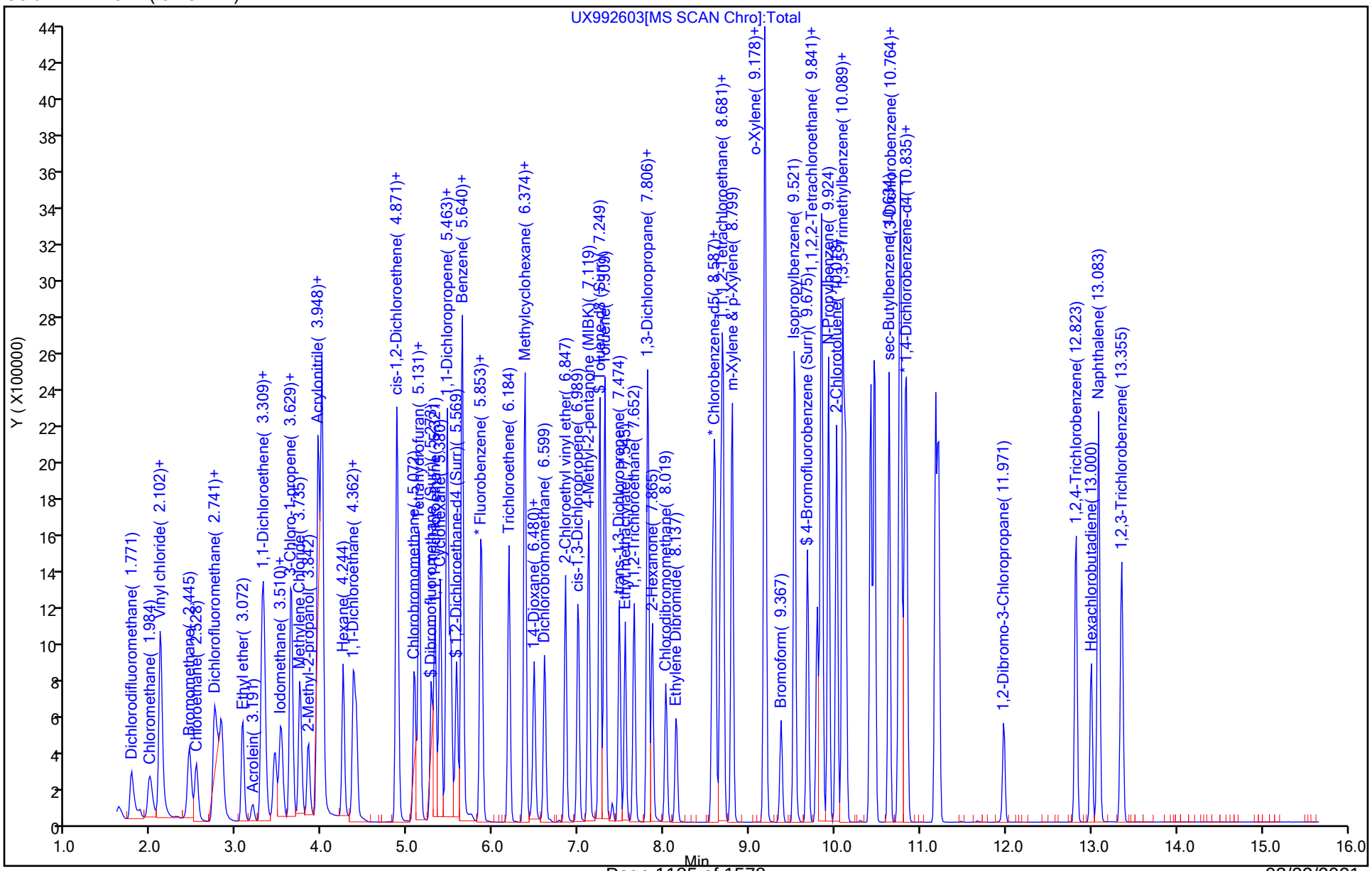
Report Date: 08-Jan-2021 14:08:12 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992603.D

Injection Date:	07-Jan-2021 14:14:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	std8260 L5			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992604.D
Lims ID: std8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 07-Jan-2021 14:37:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-013
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:08:20 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:05:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.866	5.866	0.000	99	1193834	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.563	8.564	-0.001	84	948069	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.812	10.812	0.000	94	515775	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.274	5.275	-0.001	93	674681	40.0	39.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.570	5.570	0.000	100	855050	40.0	40.2	
$ 6 Toluene-d8 (Surr)	98	7.250	7.251	-0.001	93	2555618	40.0	40.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.676	9.676	0.000	89	902639	40.0	41.0	
9 Dichlorodifluoromethane	85	1.771	1.772	-0.001	99	837294	40.0	41.4	
10 Chloromethane	50	1.984	1.985	-0.001	99	749679	40.0	38.1	
11 Vinyl chloride	62	2.103	2.115	-0.012	95	813417	40.0	42.1	
12 Butadiene	54	2.115	2.115	0.000	91	755960	40.0	41.0	
13 Bromomethane	94	2.446	2.446	0.000	92	660520	40.0	40.6	
15 Chloroethane	64	2.541	2.541	0.000	100	580877	40.0	40.3	
16 Dichlorofluoromethane	67	2.742	2.742	0.000	99	1267459	40.0	38.2	
17 Trichlorofluoromethane	101	2.813	2.825	-0.012	99	1301034	40.0	41.3	
18 Ethyl ether	59	3.061	3.062	-0.001	89	597226	40.0	40.1	
21 Acrolein	56	3.180	3.180	0.000	99	164665	200.0	210.6	
24 1,1-Dichloroethene	61	3.298	3.298	0.000	98	933510	40.0	39.1	
22 112TCTFE	101	3.322	3.322	0.000	96	602998	40.0	42.2	
23 Acetone	58	3.333	3.334	-0.001	99	139453	80.0	79.5	
25 Iodomethane	142	3.464	3.440	0.024	100	997257	40.0	41.1	
26 Carbon disulfide	76	3.523	3.523	0.000	100	1710964	40.0	40.6	
28 3-Chloro-1-propene	41	3.629	3.630	-0.001	87	930043	40.0	39.2	
29 Methyl acetate	43	3.641	3.642	-0.001	97	1408602	80.0	81.1	
30 Methylene Chloride	49	3.736	3.736	0.000	89	789038	40.0	36.5	
31 2-Methyl-2-propanol	59	3.830	3.831	-0.001	99	835763	400.0	415.6	
32 Acrylonitrile	53	3.949	3.949	0.000	97	3136862	400.0	417.9	
34 trans-1,2-Dichloroethene	61	3.996	3.997	-0.001	97	901764	40.0	39.7	
33 Methyl tert-butyl ether	73	3.996	3.997	-0.001	95	2235536	40.0	40.8	
35 Hexane	57	4.244	4.245	-0.001	92	649789	40.0	44.0	
36 1,1-Dichloroethane	63	4.363	4.363	0.000	97	1137933	40.0	39.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.398	4.399	-0.001	97	1225421	40.0	41.8	
41 2-Butanone (MEK)	72	4.872	4.872	0.000	85	243971	80.0	88.2	
43 cis-1,2-Dichloroethene	96	4.872	4.872	0.000	84	782850	40.0	39.0	
42 2,2-Dichloropropane	77	4.872	4.884	-0.012	88	747923	40.0	37.7	
47 Chlorobromomethane	49	5.073	5.073	0.000	92	565096	40.0	39.4	
48 Tetrahydrofuran	42	5.120	5.121	-0.001	85	555803	80.0	82.9	
49 Chloroform	83	5.132	5.133	-0.001	96	1240173	40.0	39.9	
50 1,1,1-Trichloroethane	97	5.321	5.322	-0.001	98	1080844	40.0	40.6	
51 Cyclohexane	84	5.380	5.381	-0.001	87	951624	40.0	42.7	
52 1,1-Dichloropropene	75	5.451	5.452	-0.001	96	975987	40.0	42.2	
53 Carbon tetrachloride	117	5.463	5.464	-0.001	98	937419	40.0	42.3	
54 Isobutyl alcohol	41	5.499	5.499	0.000	91	766547	1000.0	1120.1	
55 Benzene	78	5.641	5.641	0.000	96	2722516	40.0	40.5	
56 1,2-Dichloroethane	62	5.641	5.641	0.000	62	1038654	40.0	40.2	
58 n-Heptane	71	5.854	5.854	0.000	90	337693	40.0	41.1	
60 Trichloroethene	130	6.185	6.186	-0.001	96	786999	40.0	41.6	
62 Methylcyclohexane	83	6.363	6.363	0.000	89	888451	40.0	43.7	
63 1,2-Dichloropropane	63	6.374	6.375	-0.001	90	603710	40.0	41.7	
65 1,4-Dioxane	88	6.481	6.481	0.000	86	170900	800.0	887.9	
66 Dibromomethane	174	6.481	6.481	0.000	94	507734	40.0	42.4	
67 Dichlorobromomethane	83	6.599	6.600	-0.001	99	910595	40.0	41.5	
69 2-Chloroethyl vinyl ether	63	6.848	6.848	0.000	94	952963	80.0	94.2	
71 cis-1,3-Dichloropropene	75	6.990	6.990	0.000	95	1104882	40.0	43.5	
72 4-Methyl-2-pentanone (MIBK)	43	7.120	7.120	0.000	95	1703841	80.0	87.0	
73 Toluene	91	7.309	7.310	-0.001	99	2905987	40.0	40.0	
74 trans-1,3-Dichloropropene	75	7.475	7.475	0.000	95	1078213	40.0	43.7	
75 Ethyl methacrylate	69	7.546	7.546	0.000	87	909046	40.0	44.4	
76 1,1,2-Trichloroethane	97	7.652	7.653	-0.001	93	631024	40.0	41.3	
77 1,3-Dichloropropane	76	7.806	7.807	-0.001	91	1114971	40.0	40.8	
78 Tetrachloroethene	166	7.818	7.819	-0.001	97	711945	40.0	41.4	
80 2-Hexanone	43	7.865	7.866	-0.001	95	1168734	80.0	86.4	
82 Chlorodibromomethane	129	8.019	8.020	-0.001	90	690696	40.0	42.9	
83 Ethylene Dibromide	107	8.137	8.138	-0.001	99	699458	40.0	43.0	
85 Chlorobenzene	112	8.599	8.600	-0.001	96	1913272	40.0	40.6	
86 1,1,1,2-Tetrachloroethane	131	8.658	8.659	-0.001	94	714178	40.0	41.7	
87 Ethylbenzene	106	8.694	8.694	0.000	98	1004500	40.0	41.5	
88 m-Xylene & p-Xylene	106	8.800	8.801	-0.001	99	1238632	40.0	41.1	
89 o-Xylene	106	9.179	9.179	0.000	97	1274660	40.0	41.1	
90 Styrene	104	9.179	9.179	0.000	93	1900002	40.0	43.4	
91 Bromoform	173	9.368	9.369	-0.001	95	462368	40.0	45.6	
92 Isopropylbenzene	105	9.522	9.523	-0.001	96	3084153	40.0	40.8	
94 1,1,2,2-Tetrachloroethane	83	9.794	9.795	-0.001	98	948368	40.0	41.7	
95 Bromobenzene	156	9.841	9.842	-0.001	96	811804	40.0	43.3	
96 trans-1,4-Dichloro-2-butene	53	9.841	9.842	-0.001	72	296519	40.0	42.9	
97 1,2,3-Trichloropropane	110	9.841	9.842	-0.001	83	363933	40.0	41.8	
98 N-Propylbenzene	120	9.924	9.925	-0.001	99	821800	40.0	42.6	
100 2-Chlorotoluene	126	10.019	10.019	0.000	96	753088	40.0	41.2	
101 1,3,5-Trimethylbenzene	105	10.090	10.090	0.000	94	2514970	40.0	42.5	
102 4-Chlorotoluene	126	10.125	10.126	-0.001	97	778155	40.0	42.4	
104 tert-Butylbenzene	119	10.421	10.422	-0.001	91	2282358	40.0	43.1	
106 1,2,4-Trimethylbenzene	105	10.457	10.457	0.000	98	2601458	40.0	42.2	
107 sec-Butylbenzene	134	10.634	10.635	-0.001	94	630625	40.0	44.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.753	10.753	-0.001	98	1509036	40.0	41.2	
109 4-Isopropyltoluene	119	10.776	10.765	0.011	97	2555499	40.0	43.2	
110 1,4-Dichlorobenzene	146	10.835	10.836	-0.001	94	1542423	40.0	41.2	
113 n-Butylbenzene	91	11.178	11.179	-0.001	97	1997503	40.0	41.8	
114 1,2-Dichlorobenzene	146	11.214	11.215	-0.001	98	1534481	40.0	40.5	
115 1,2-Dibromo-3-Chloropropane	157	11.971	11.972	-0.001	87	270007	40.0	40.1	
117 1,2,4-Trichlorobenzene	180	12.823	12.824	-0.001	94	887616	40.0	40.1	
118 Hexachlorobutadiene	225	13.001	13.001	0.000	98	279973	40.0	40.7	
119 Naphthalene	128	13.084	13.084	0.000	97	3237195	40.0	40.3	
120 1,2,3-Trichlorobenzene	180	13.356	13.356	0.000	95	834934	40.0	39.6	
S 158 Total BTEX	1				0		200.0	204.2	
S 128 1,2-Dichloroethene, Total	96				0			78.7	
S 129 1,3-Dichloropropene, Total	75				0			87.2	
S 130 Trihalomethanes, Total	83				0		160.0	169.9	
S 131 Xylenes, Total	106				0		80.0	82.2	

QC Flag Legend

Processing Flags

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vmrgas_00368	Amount Added:	32.00	Units: uL
vmarolistdw_00375	Amount Added:	32.00	Units: uL
vmrprimw_00418	Amount Added:	32.00	Units: uL
vm50ss_00431	Amount Added:	32.00	Units: uL

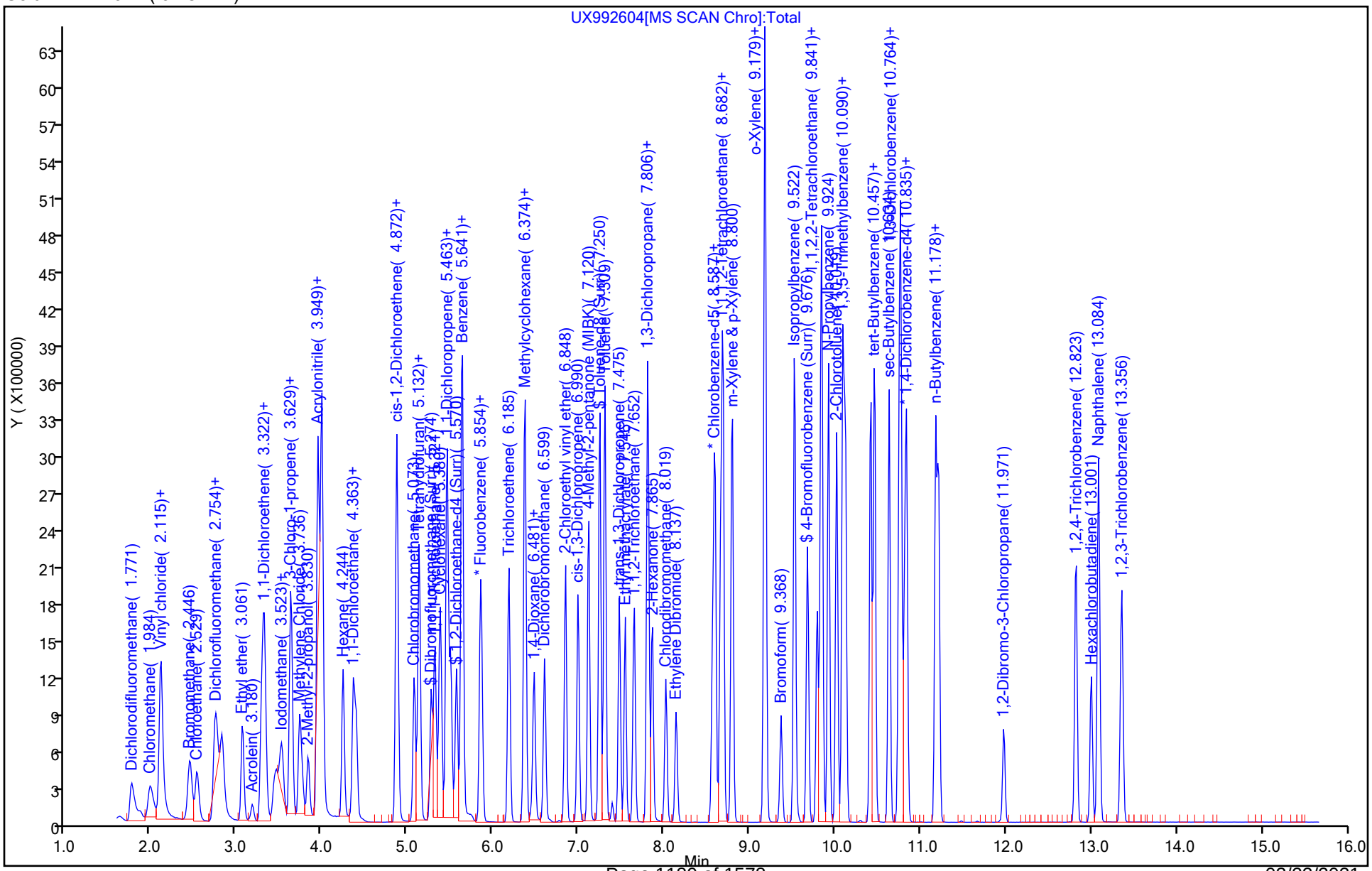
Report Date: 08-Jan-2021 14:08:23 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992604.D

Injection Date:	07-Jan-2021 14:37:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	std8260 L6			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992605.D
Lims ID: std8260 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 07-Jan-2021 14:59:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-014
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:08:31 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 11:57:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.868	5.866	0.002	99	1200768	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.566	8.564	0.002	85	916989	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.814	10.812	0.002	94	503367	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.277	5.275	0.002	93	1015320	60.0	59.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.572	5.570	0.002	100	1280730	60.0	59.8	
$ 6 Toluene-d8 (Surr)	98	7.253	7.251	0.002	93	3637027	60.0	59.6	
$ 7 4-Bromofluorobenzene (Surr)	95	9.678	9.676	0.002	89	1275890	60.0	59.9	
9 Dichlorodifluoromethane	85	1.774	1.772	0.002	100	1324270	60.0	65.2	
10 Chloromethane	50	1.987	1.985	0.002	99	1142358	60.0	57.8	
11 Vinyl chloride	62	2.105	2.115	-0.010	75	1233924	60.0	63.5	
12 Butadiene	54	2.105	2.115	-0.010	91	1148799	60.0	61.9	
13 Bromomethane	94	2.449	2.446	0.003	92	1063038	60.0	65.0	
15 Chloroethane	64	2.531	2.541	-0.010	99	894126	60.0	61.6	
16 Dichlorofluoromethane	67	2.744	2.742	0.002	99	1933099	60.0	58.0	
17 Trichlorofluoromethane	101	2.815	2.825	-0.010	99	1990685	60.0	62.9	
18 Ethyl ether	59	3.064	3.062	0.002	87	906357	60.0	60.5	
21 Acrolein	56	3.182	3.180	0.002	98	249103	300.0	316.7	
24 1,1-Dichloroethene	61	3.289	3.298	-0.009	99	1415192	60.0	58.9	
22 112TCTFE	101	3.312	3.322	-0.010	96	935649	60.0	65.2	
23 Acetone	58	3.336	3.334	0.002	99	223348	120.0	127.4	
25 Iodomethane	142	3.443	3.440	0.003	99	1542217	60.0	63.2	
26 Carbon disulfide	76	3.514	3.523	-0.009	100	2655372	60.0	62.7	
28 3-Chloro-1-propene	41	3.632	3.630	0.002	87	1417065	60.0	59.4	
29 Methyl acetate	43	3.644	3.642	0.002	96	2109607	120.0	120.8	
30 Methylene Chloride	49	3.738	3.736	0.002	89	1207583	60.0	55.6	
31 2-Methyl-2-propanol	59	3.833	3.831	0.002	99	1242036	600.0	614.0	
32 Acrylonitrile	53	3.951	3.949	0.002	98	4652703	600.0	616.2	
34 trans-1,2-Dichloroethene	61	3.999	3.997	0.002	97	1343818	60.0	58.8	
33 Methyl tert-butyl ether	73	3.999	3.997	0.002	95	3383116	60.0	61.5	
35 Hexane	57	4.247	4.245	0.002	92	979353	60.0	66.0	
36 1,1-Dichloroethane	63	4.365	4.363	0.002	97	1731431	60.0	59.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.401	4.399	0.002	97	1857835	60.0	63.0	
41 2-Butanone (MEK)	72	4.874	4.872	0.002	83	362687	120.0	130.4	
43 cis-1,2-Dichloroethene	96	4.874	4.872	0.002	83	1213167	60.0	60.1	
42 2,2-Dichloropropane	77	4.874	4.884	-0.010	88	1173300	60.0	58.9	
47 Chlorobromomethane	49	5.075	5.073	0.002	91	852421	60.0	59.1	
48 Tetrahydrofuran	42	5.123	5.121	0.002	84	826479	120.0	122.6	
49 Chloroform	83	5.135	5.133	0.002	96	1869719	60.0	59.8	
50 1,1,1-Trichloroethane	97	5.324	5.322	0.002	97	1653719	60.0	61.7	
51 Cyclohexane	84	5.383	5.381	0.002	87	1456351	60.0	65.0	
52 1,1-Dichloropropene	75	5.454	5.452	0.002	95	1460358	60.0	62.8	
53 Carbon tetrachloride	117	5.466	5.464	0.002	99	1436935	60.0	64.5	
54 Isobutyl alcohol	41	5.501	5.499	0.002	96	1097539	1500.0	1594.6	
55 Benzene	78	5.632	5.641	-0.009	96	4092766	60.0	60.6	
56 1,2-Dichloroethane	62	5.632	5.641	-0.009	62	1563880	60.0	60.2	
58 n-Heptane	71	5.845	5.854	-0.009	91	501678	60.0	61.3	
60 Trichloroethene	130	6.188	6.186	0.002	96	1175818	60.0	61.8	
62 Methylcyclohexane	83	6.365	6.363	0.002	89	1344384	60.0	65.7	
63 1,2-Dichloropropane	63	6.377	6.375	0.002	91	902110	60.0	61.9	
66 Dibromomethane	174	6.484	6.481	0.003	94	762299	60.0	63.2	
65 1,4-Dioxane	88	6.484	6.481	0.003	37	242887	1200.0	1254.6	
67 Dichlorobromomethane	83	6.602	6.600	0.002	99	1386823	60.0	62.8	
69 2-Chloroethyl vinyl ether	63	6.850	6.848	0.002	95	1337809	120.0	131.5	
71 cis-1,3-Dichloropropene	75	6.992	6.990	0.002	94	1629677	60.0	63.8	
72 4-Methyl-2-pentanone (MIBK)	43	7.111	7.120	-0.009	95	2430765	120.0	123.4	
73 Toluene	91	7.312	7.310	0.002	98	4261803	60.0	60.6	
74 trans-1,3-Dichloropropene	75	7.478	7.475	0.003	94	1559646	60.0	65.4	
75 Ethyl methacrylate	69	7.549	7.546	0.002	87	1286507	60.0	65.0	
76 1,1,2-Trichloroethane	97	7.655	7.653	0.002	92	919071	60.0	62.2	
77 1,3-Dichloropropane	76	7.809	7.807	0.002	89	1622901	60.0	61.4	
78 Tetrachloroethene	166	7.809	7.819	-0.010	98	1047339	60.0	63.0	
80 2-Hexanone	43	7.856	7.866	-0.010	95	1601145	120.0	122.4	
82 Chlorodibromomethane	129	8.022	8.020	0.002	90	1023743	60.0	65.7	
83 Ethylene Dibromide	107	8.140	8.138	0.002	99	1001359	60.0	63.7	
85 Chlorobenzene	112	8.590	8.600	-0.010	95	2744060	60.0	60.3	
86 1,1,1,2-Tetrachloroethane	131	8.661	8.659	0.002	95	1070263	60.0	64.6	
87 Ethylbenzene	106	8.684	8.694	-0.010	98	1454277	60.0	62.1	
88 m-Xylene & p-Xylene	106	8.791	8.801	-0.010	99	1810736	60.0	62.1	
89 o-Xylene	106	9.181	9.179	0.002	95	1840300	60.0	61.4	
90 Styrene	104	9.181	9.179	0.002	90	2717281	60.0	64.2	
91 Bromoform	173	9.371	9.369	0.002	95	683630	60.0	69.8	
92 Isopropylbenzene	105	9.525	9.523	0.002	96	4552919	60.0	62.3	
94 1,1,2,2-Tetrachloroethane	83	9.785	9.795	-0.010	98	1379313	60.0	62.2	
95 Bromobenzene	156	9.832	9.842	-0.010	96	1175295	60.0	64.2	
96 trans-1,4-Dichloro-2-butene	53	9.844	9.842	0.002	71	422507	60.0	62.6	
97 1,2,3-Trichloropropane	110	9.844	9.842	0.002	83	530818	60.0	62.5	
98 N-Propylbenzene	120	9.927	9.925	0.002	98	1199687	60.0	63.7	
100 2-Chlorotoluene	126	10.022	10.019	0.003	96	1101848	60.0	61.8	
101 1,3,5-Trimethylbenzene	105	10.093	10.090	0.003	94	3701837	60.0	64.0	
102 4-Chlorotoluene	126	10.128	10.126	0.002	98	1126655	60.0	62.9	
104 tert-Butylbenzene	119	10.412	10.422	-0.010	91	3205499	60.0	62.1	
106 1,2,4-Trimethylbenzene	105	10.459	10.457	0.002	94	3806074	60.0	63.3	
107 sec-Butylbenzene	134	10.637	10.635	0.002	94	931795	60.0	67.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.755	10.753	0.002	98	2211446	60.0	61.8	
109 4-Isopropyltoluene	119	10.767	10.765	0.002	97	3764439	60.0	65.2	
110 1,4-Dichlorobenzene	146	10.838	10.836	0.002	94	2285249	60.0	62.5	
113 n-Butylbenzene	91	11.181	11.179	0.002	97	2961345	60.0	63.5	
114 1,2-Dichlorobenzene	146	11.217	11.215	0.002	98	2276724	60.0	61.6	
115 1,2-Dibromo-3-Chloropropane	157	11.974	11.972	0.002	85	399495	60.0	60.6	
117 1,2,4-Trichlorobenzene	180	12.814	12.824	-0.010	94	1331350	60.0	61.6	
118 Hexachlorobutadiene	225	13.003	13.001	0.002	97	428897	60.0	63.8	
119 Naphthalene	128	13.086	13.084	0.002	97	4806255	60.0	61.3	
120 1,2,3-Trichlorobenzene	180	13.358	13.356	0.002	96	1253995	60.0	61.0	
S 158 Total BTEX	1				0		300.0	306.8	
S 128 1,2-Dichloroethene, Total	96				0			118.9	
S 129 1,3-Dichloropropene, Total	75				0			129.2	
S 130 Trihalomethanes, Total	83				0		240.0	258.1	
S 131 Xylenes, Total	106				0		120.0	123.5	

QC Flag Legend

Processing Flags

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vmrgas_00368	Amount Added:	48.00	Units: uL
vmarolistdw_00375	Amount Added:	48.00	Units: uL
vmrprimw_00418	Amount Added:	48.00	Units: uL
vm50ss_00431	Amount Added:	48.00	Units: uL

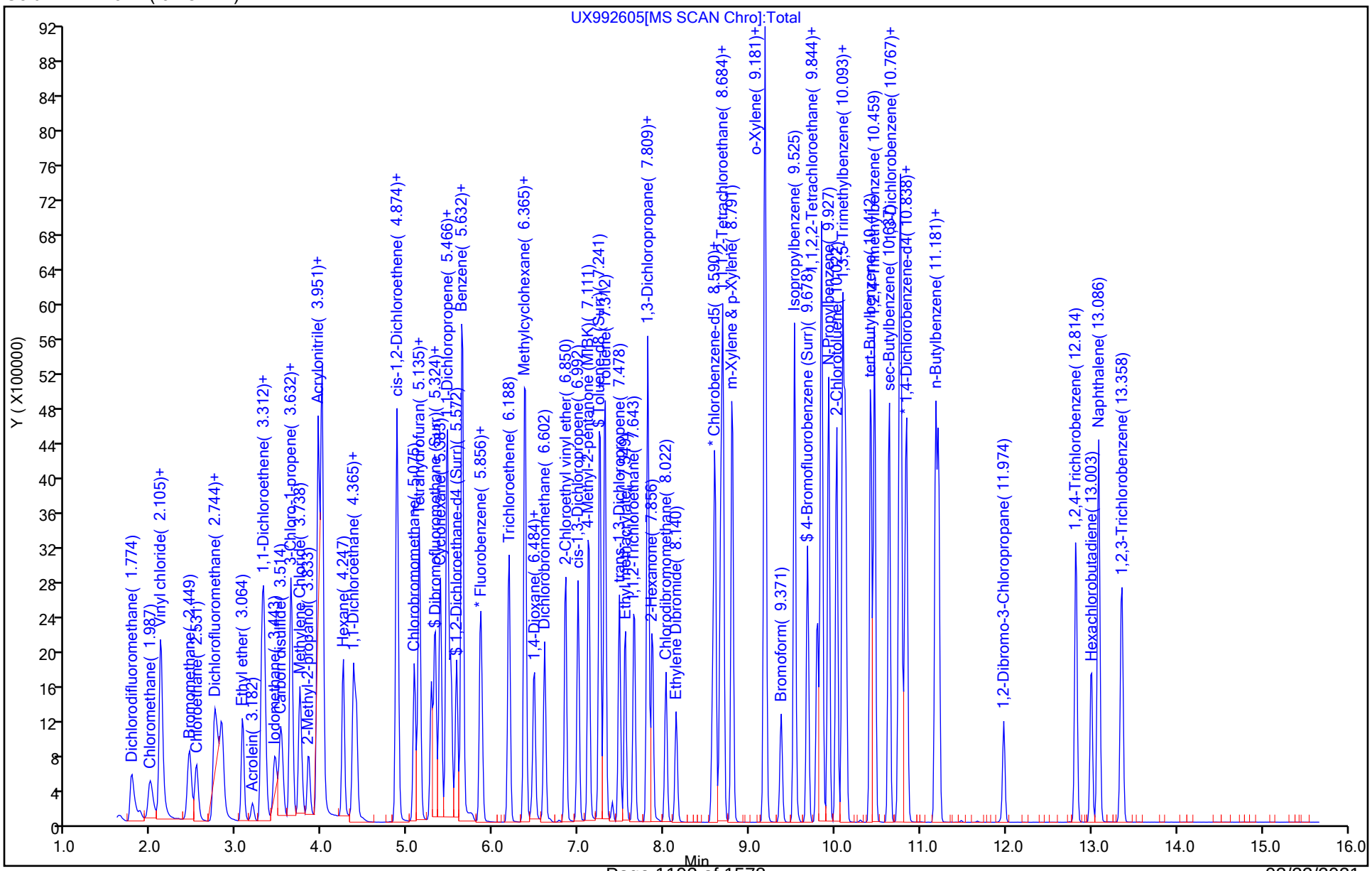
Report Date: 08-Jan-2021 14:08:34 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992605.D

Injection Date:	07-Jan-2021 14:59:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	std8260 L7			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

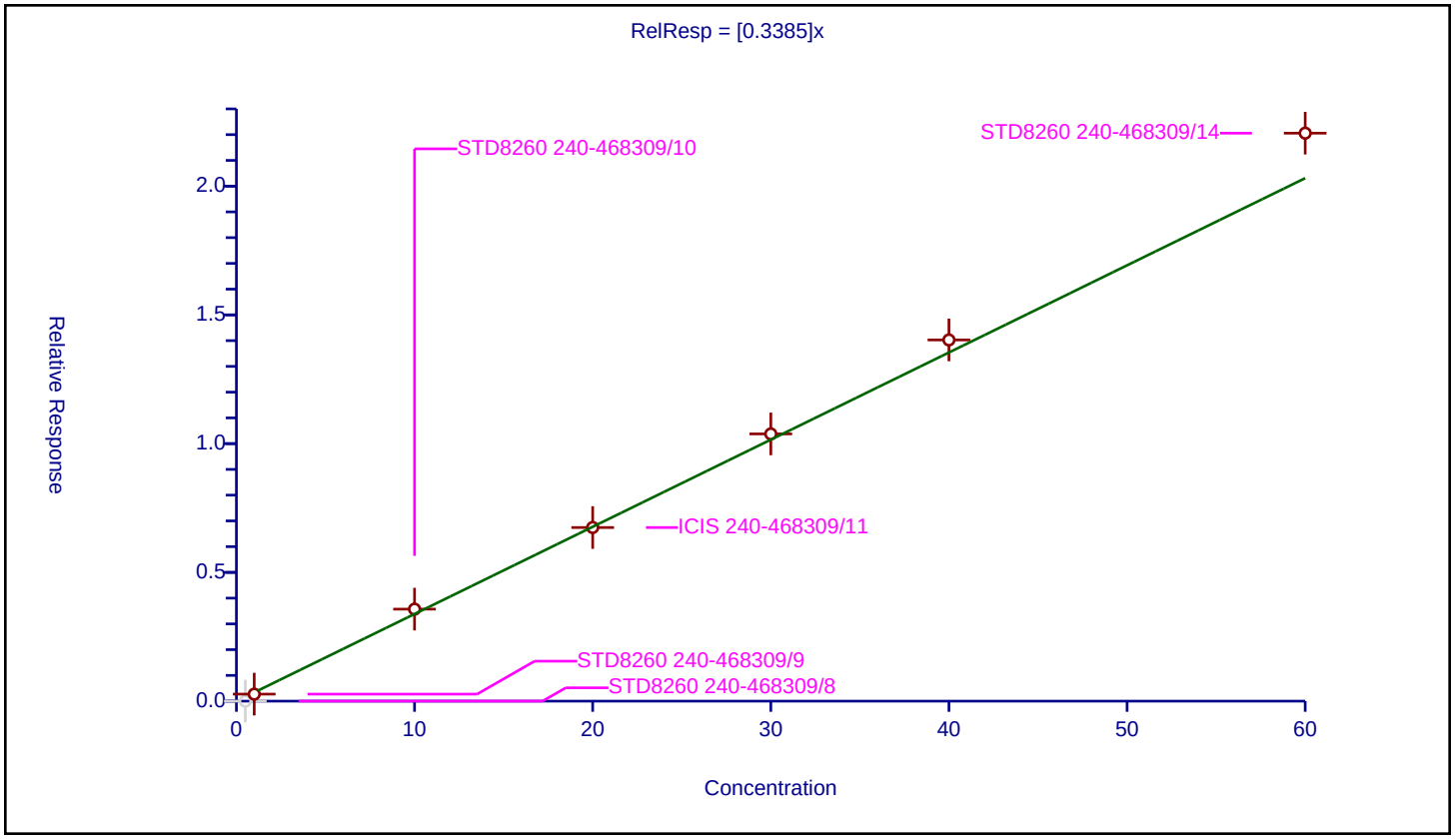
Curve Coefficients

Intercept:	0
Slope:	0.3385

Error Coefficients

Standard Error:	771000
Relative Standard Error:	10.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.0	20.0	1001319.0	0.0	N
2	STD8260 240-468309/9	1.0	0.272359	20.0	993029.0	0.272359	Y
3	STD8260 240-468309/10	10.0	3.572715	20.0	1002946.0	0.357271	Y
4	ICIS 240-468309/11	20.0	6.742311	20.0	1096535.0	0.337116	Y
5	STD8260 240-468309/12	30.0	10.377568	20.0	1139450.0	0.345919	Y
6	STD8260 240-468309/13	40.0	14.026975	20.0	1193834.0	0.350674	Y
7	STD8260 240-468309/14	60.0	22.05705	20.0	1200768.0	0.367618	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

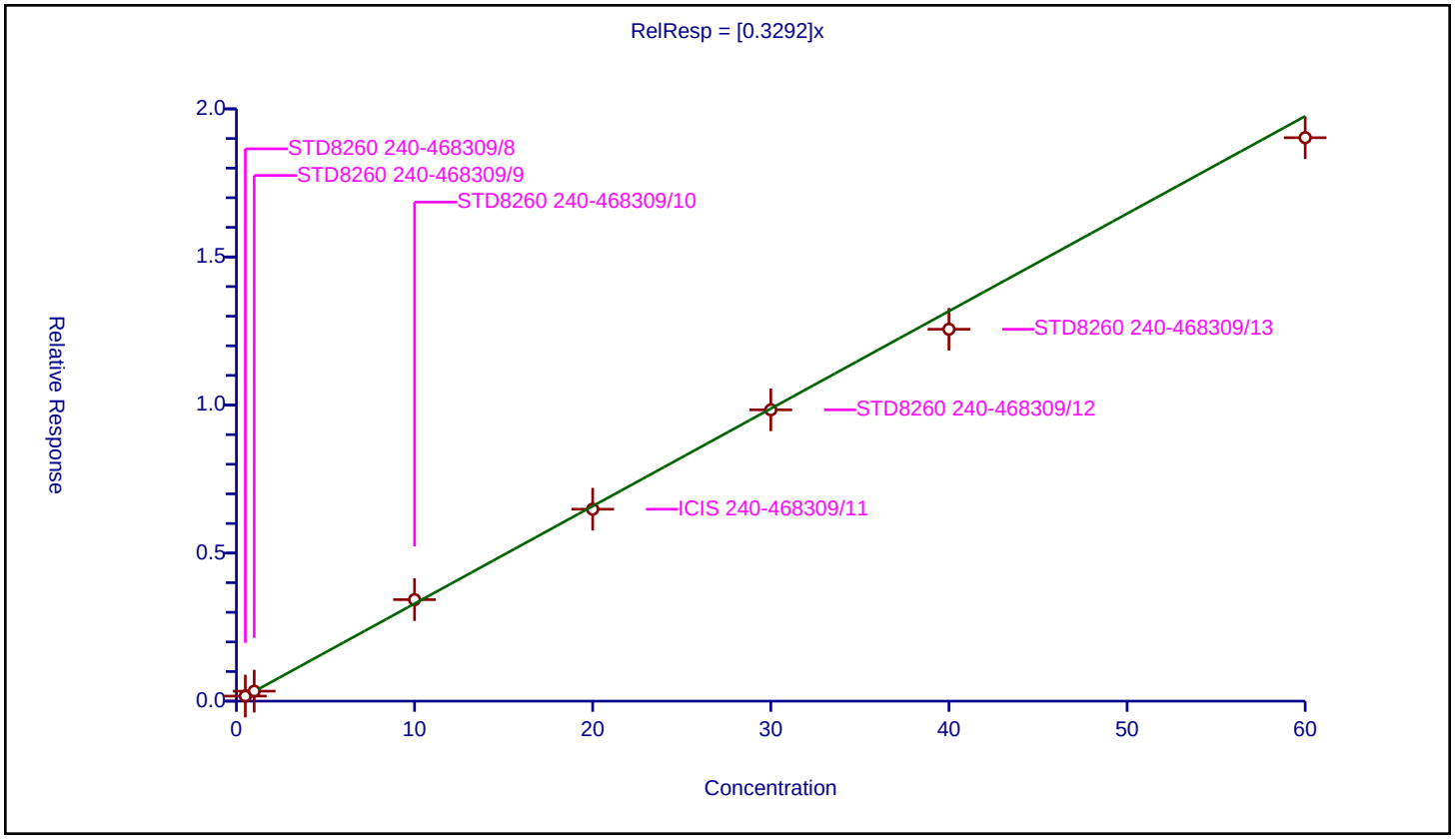
Curve Coefficients

Intercept:	0
Slope:	0.3292

Error Coefficients

Standard Error:	624000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.170695	20.0	1001319.0	0.34139	Y
2	STD8260 240-468309/9	1.0	0.337352	20.0	993029.0	0.337352	Y
3	STD8260 240-468309/10	10.0	3.42846	20.0	1002946.0	0.342846	Y
4	ICIS 240-468309/11	20.0	6.481416	20.0	1096535.0	0.324071	Y
5	STD8260 240-468309/12	30.0	9.837097	20.0	1139450.0	0.327903	Y
6	STD8260 240-468309/13	40.0	12.559183	20.0	1193834.0	0.31398	Y
7	STD8260 240-468309/14	60.0	19.027123	20.0	1200768.0	0.317119	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

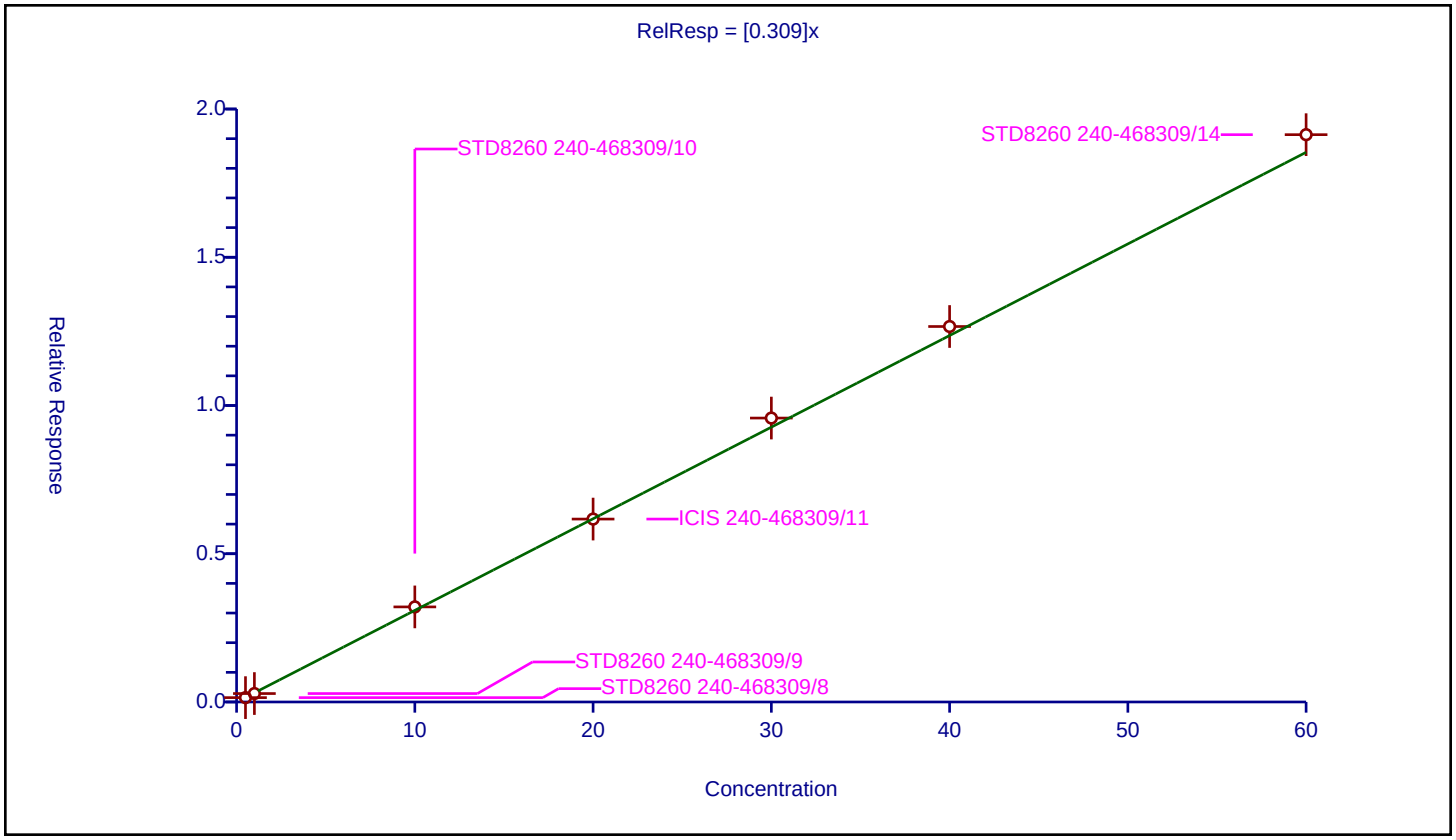
Curve Coefficients

Intercept:	0
Slope:	0.309

Error Coefficients

Standard Error:	623000
Relative Standard Error:	4.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.147406	20.0	1001319.0	0.294811	Y
2	STD8260 240-468309/9	1.0	0.284282	20.0	993029.0	0.284282	Y
3	STD8260 240-468309/10	10.0	3.206633	20.0	1002946.0	0.320663	Y
4	ICIS 240-468309/11	20.0	6.16989	20.0	1096535.0	0.308494	Y
5	STD8260 240-468309/12	30.0	9.576357	20.0	1139450.0	0.319212	Y
6	STD8260 240-468309/13	40.0	12.664407	20.0	1193834.0	0.31661	Y
7	STD8260 240-468309/14	60.0	19.134404	20.0	1200768.0	0.318907	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

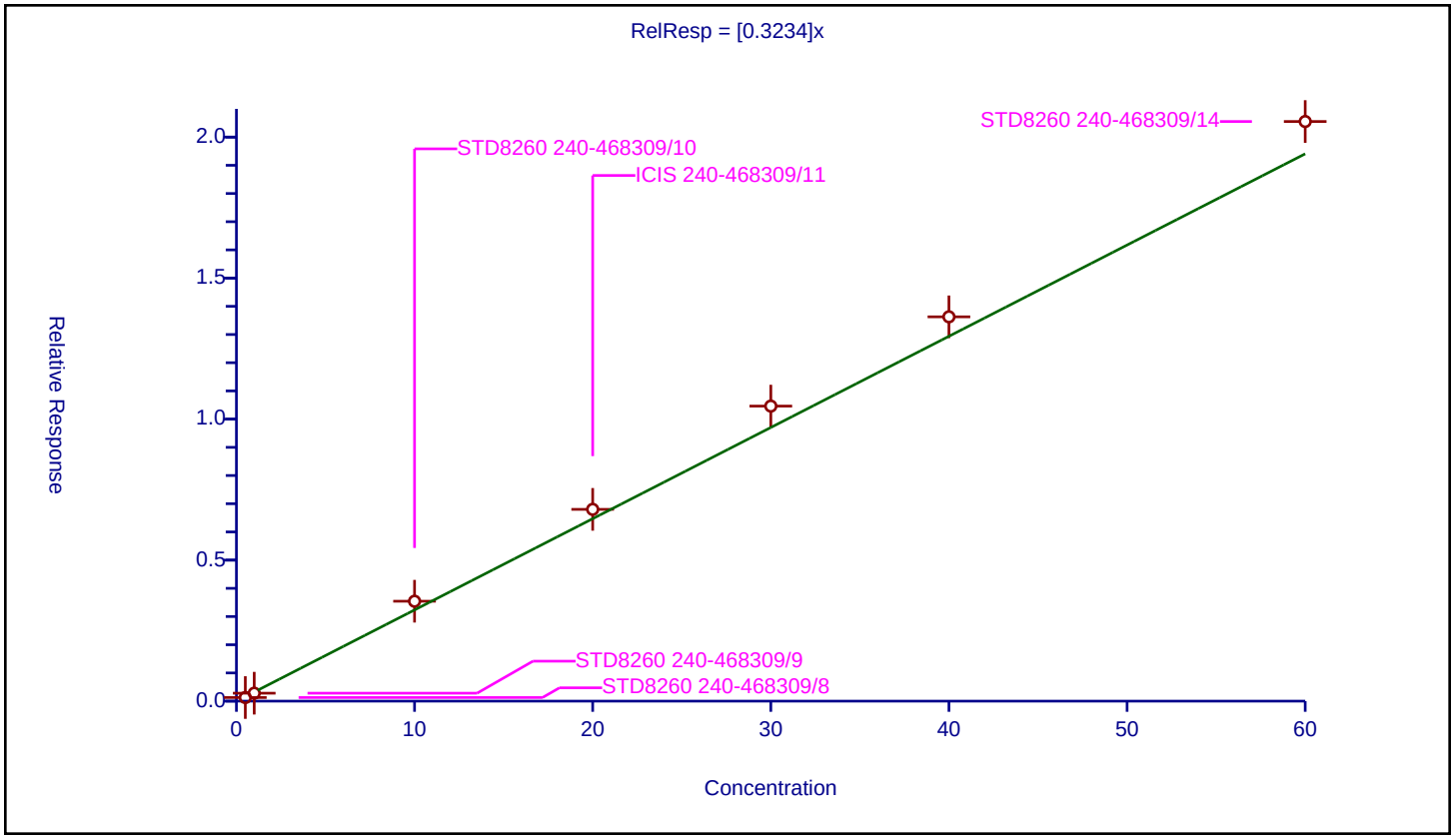
Curve Coefficients

Intercept:	0
Slope:	0.3234

Error Coefficients

Standard Error:	672000
Relative Standard Error:	11.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.128011	20.0	1001319.0	0.256022	Y
2	STD8260 240-468309/9	1.0	0.281905	20.0	993029.0	0.281905	Y
3	STD8260 240-468309/10	10.0	3.542564	20.0	1002946.0	0.354256	Y
4	ICIS 240-468309/11	20.0	6.800184	20.0	1096535.0	0.340009	Y
5	STD8260 240-468309/12	30.0	10.461451	20.0	1139450.0	0.348715	Y
6	STD8260 240-468309/13	40.0	13.62697	20.0	1193834.0	0.340674	Y
7	STD8260 240-468309/14	60.0	20.552247	20.0	1200768.0	0.342537	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

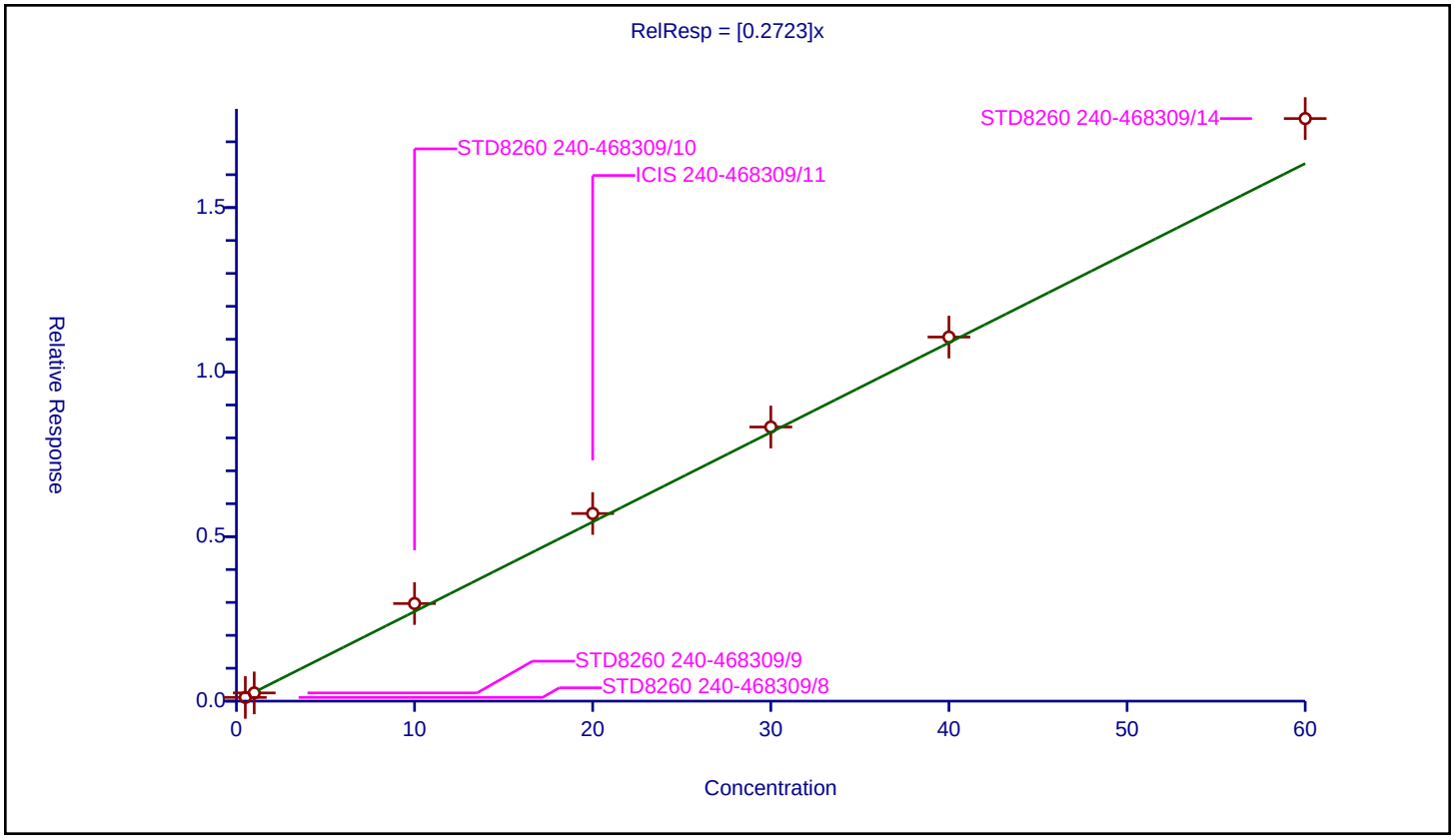
Curve Coefficients

Intercept:	0
Slope:	0.2723

Error Coefficients

Standard Error:	564000
Relative Standard Error:	9.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.112651	20.0	1001319.0	0.225303	Y
2	STD8260 240-468309/9	1.0	0.249862	20.0	993029.0	0.249862	Y
3	STD8260 240-468309/10	10.0	2.966241	20.0	1002946.0	0.296624	Y
4	ICIS 240-468309/11	20.0	5.702016	20.0	1096535.0	0.285101	Y
5	STD8260 240-468309/12	30.0	8.331616	20.0	1139450.0	0.277721	Y
6	STD8260 240-468309/13	40.0	11.065525	20.0	1193834.0	0.276638	Y
7	STD8260 240-468309/14	60.0	17.705968	20.0	1200768.0	0.295099	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

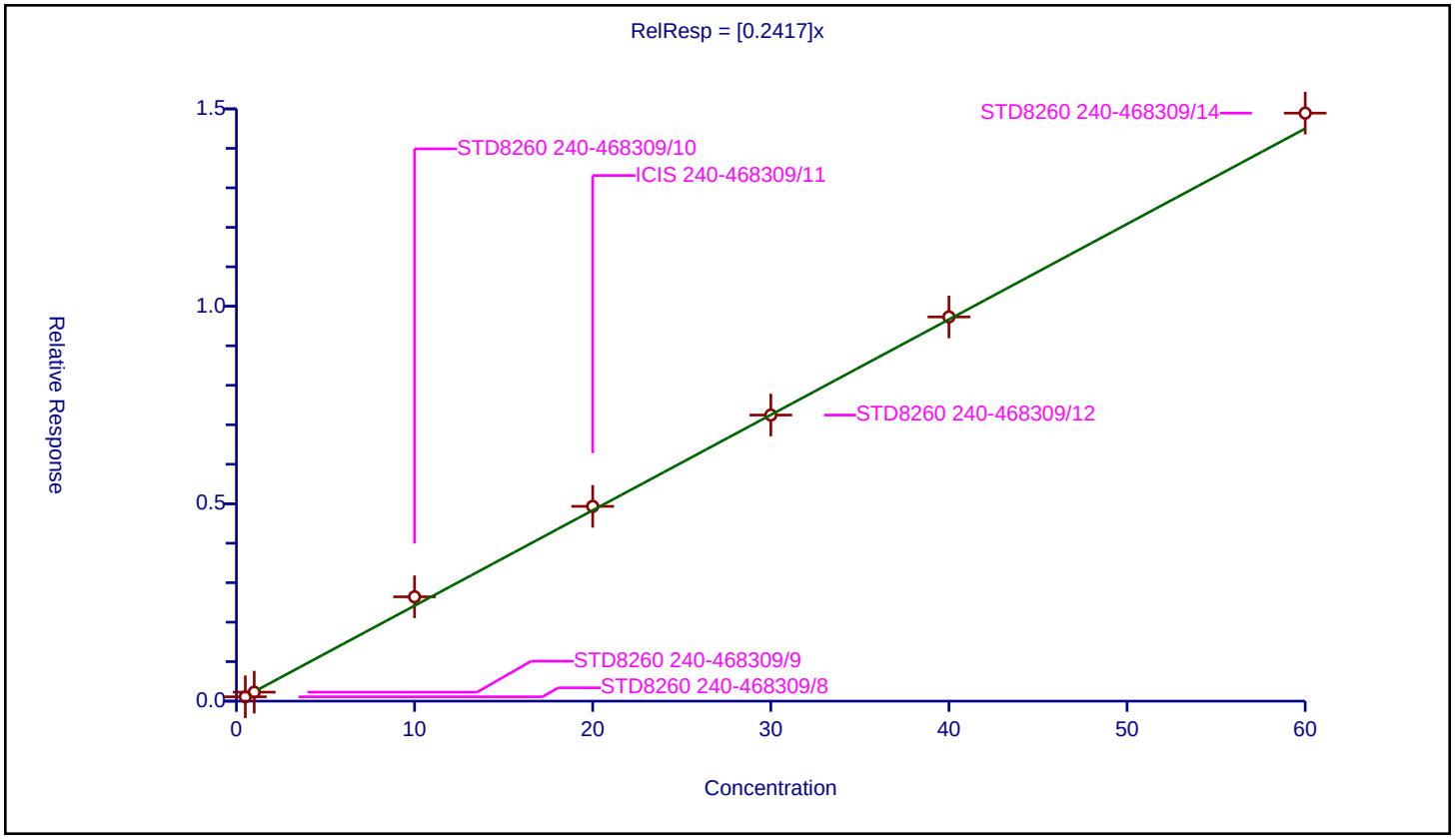
Curve Coefficients

Intercept:	0
Slope:	0.2417

Error Coefficients

Standard Error:	483000
Relative Standard Error:	5.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.110215	20.0	1001319.0	0.220429	Y
2	STD8260 240-468309/9	1.0	0.227365	20.0	993029.0	0.227365	Y
3	STD8260 240-468309/10	10.0	2.642874	20.0	1002946.0	0.264287	Y
4	ICIS 240-468309/11	20.0	4.933395	20.0	1096535.0	0.24667	Y
5	STD8260 240-468309/12	30.0	7.246092	20.0	1139450.0	0.241536	Y
6	STD8260 240-468309/13	40.0	9.731286	20.0	1193834.0	0.243282	Y
7	STD8260 240-468309/14	60.0	14.892569	20.0	1200768.0	0.248209	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

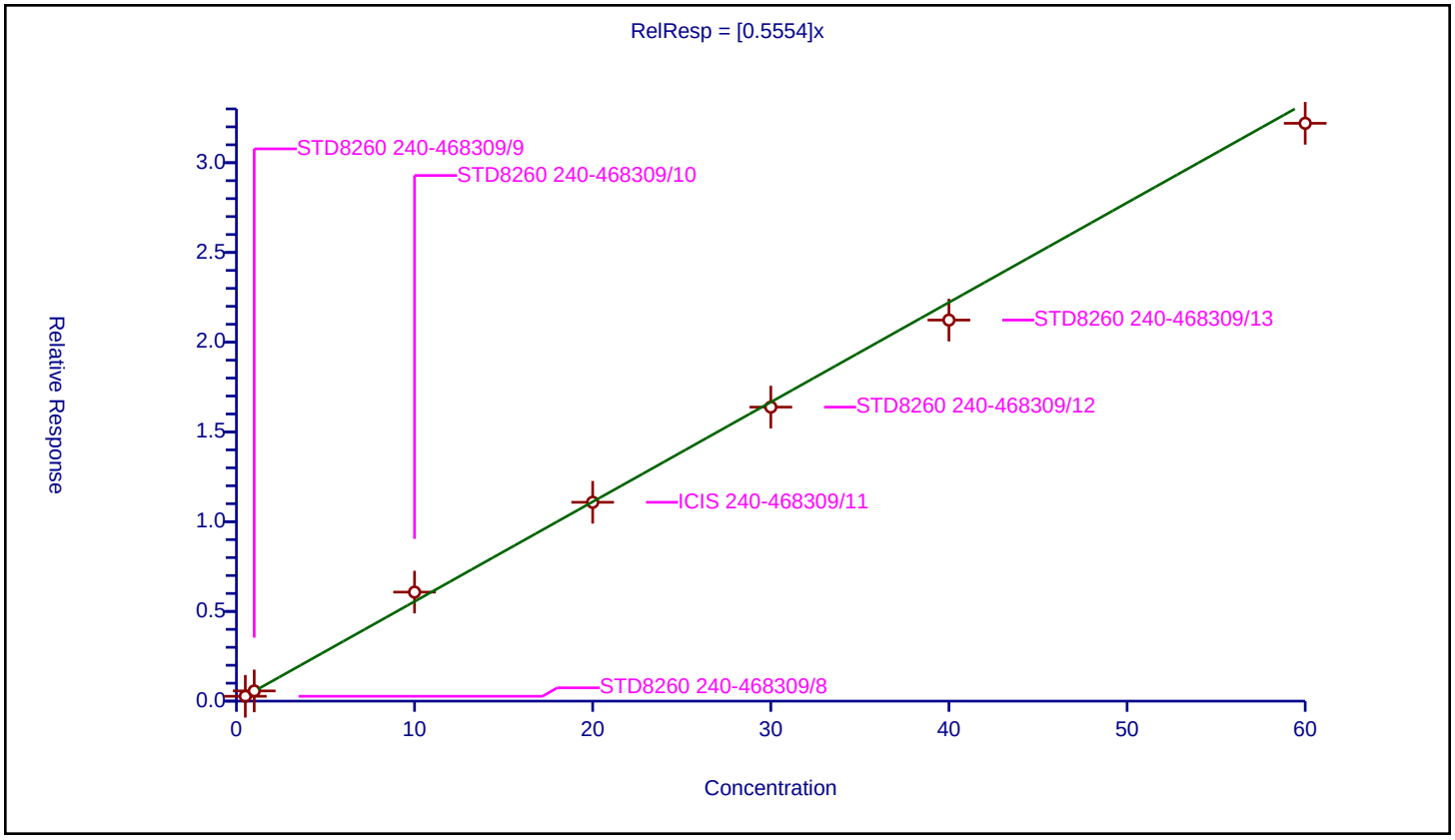
Curve Coefficients

Intercept:	0
Slope:	0.5554

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.271542	20.0	1001319.0	0.543084	Y
2	STD8260 240-468309/9	1.0	0.569591	20.0	993029.0	0.569591	Y
3	STD8260 240-468309/10	10.0	6.075362	20.0	1002946.0	0.607536	Y
4	ICIS 240-468309/11	20.0	11.080522	20.0	1096535.0	0.554026	Y
5	STD8260 240-468309/12	30.0	16.383273	20.0	1139450.0	0.546109	Y
6	STD8260 240-468309/13	40.0	21.233421	20.0	1193834.0	0.530836	Y
7	STD8260 240-468309/14	60.0	32.19771	20.0	1200768.0	0.536629	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

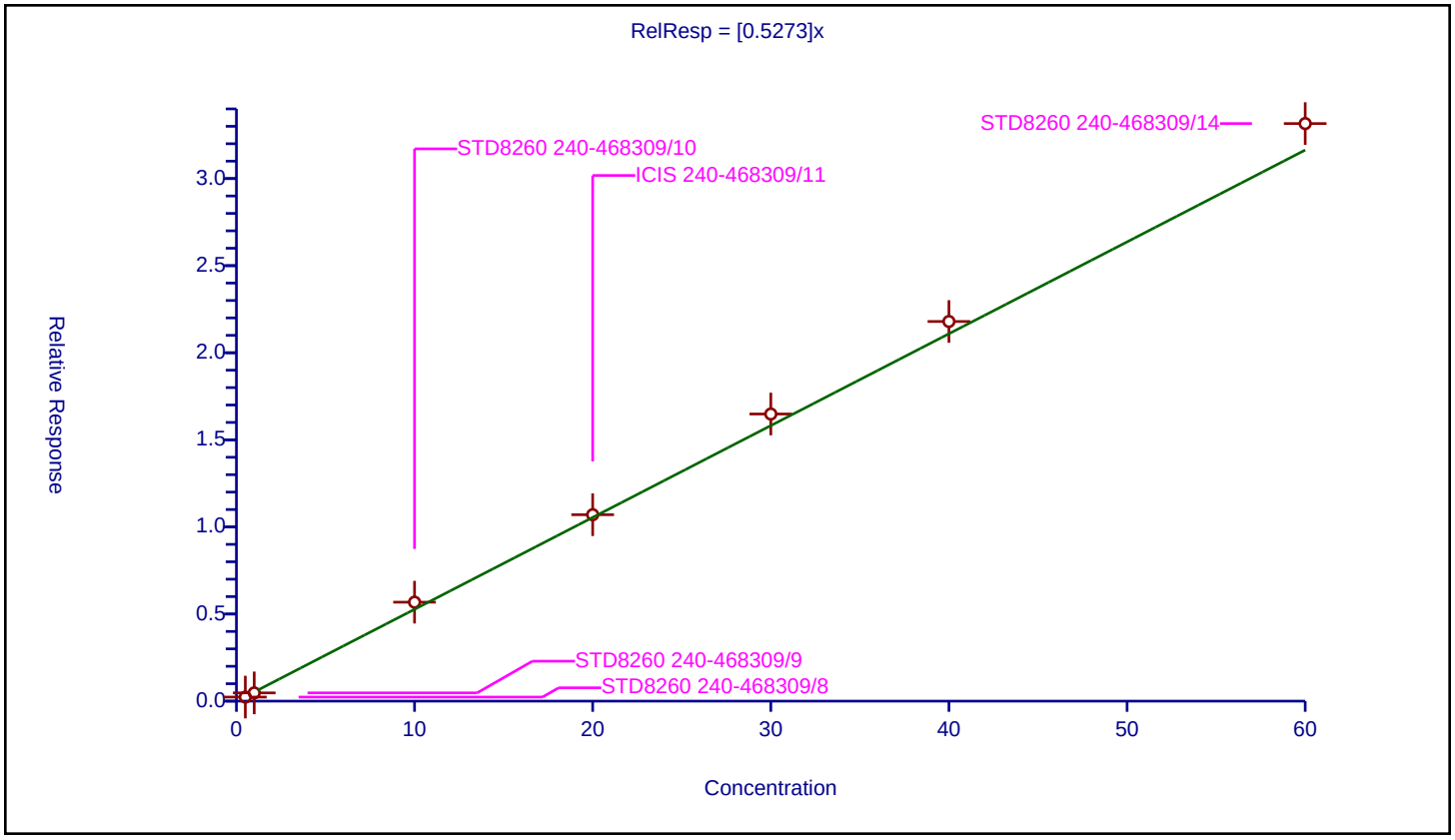
Curve Coefficients

Intercept:	0
Slope:	0.5273

Error Coefficients

Standard Error:	1080000
Relative Standard Error:	7.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.233472	20.0	1001319.0	0.466944	Y
2	STD8260 240-468309/9	1.0	0.473924	20.0	993029.0	0.473924	Y
3	STD8260 240-468309/10	10.0	5.681123	20.0	1002946.0	0.568112	Y
4	ICIS 240-468309/11	20.0	10.702258	20.0	1096535.0	0.535113	Y
5	STD8260 240-468309/12	30.0	16.48304	20.0	1139450.0	0.549435	Y
6	STD8260 240-468309/13	40.0	21.795895	20.0	1193834.0	0.544897	Y
7	STD8260 240-468309/14	60.0	33.156863	20.0	1200768.0	0.552614	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

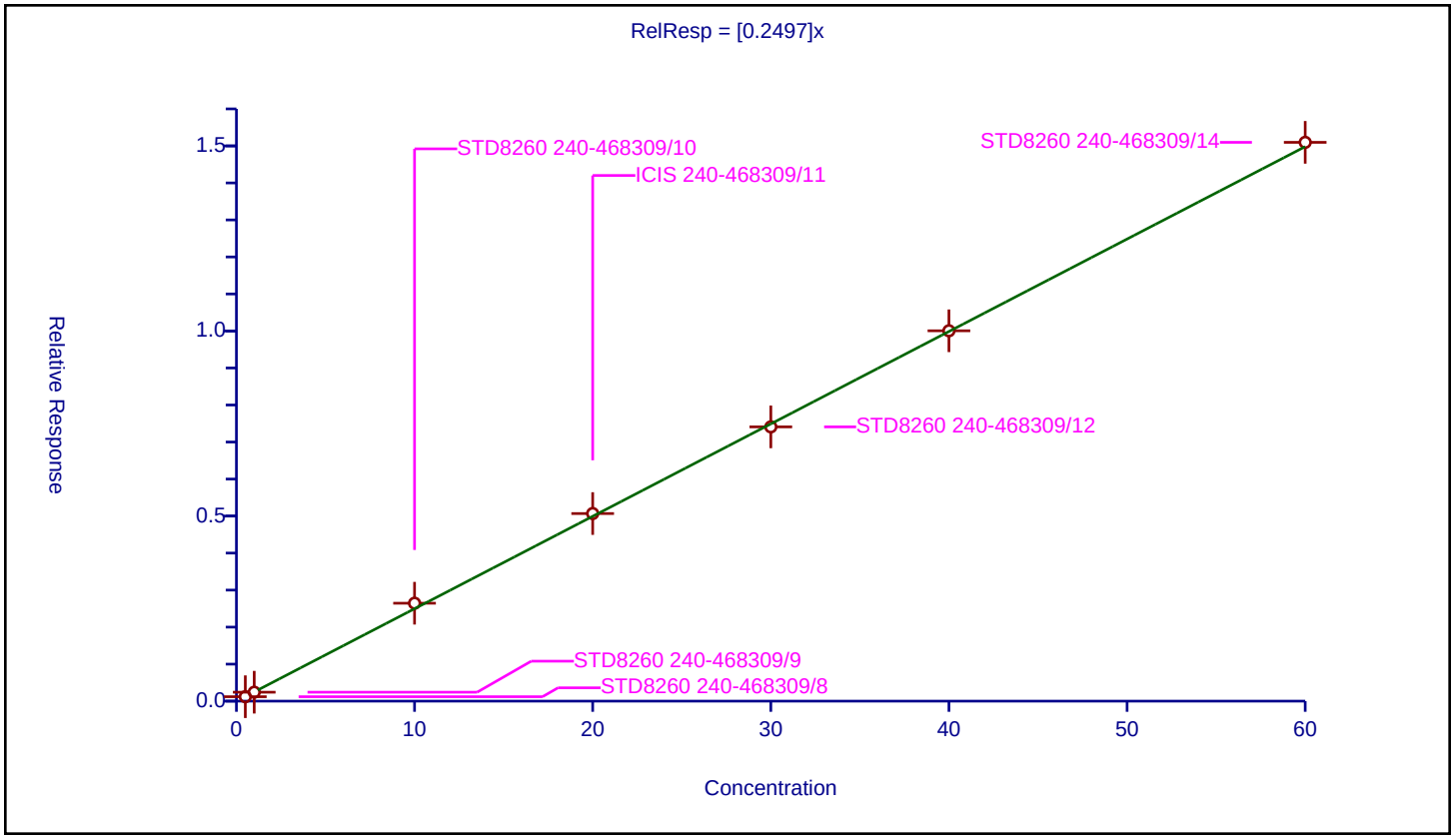
Curve Coefficients

Intercept:	0
Slope:	0.2497

Error Coefficients

Standard Error:	492000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.119882	20.0	1001319.0	0.239764	Y
2	STD8260 240-468309/9	1.0	0.241222	20.0	993029.0	0.241222	Y
3	STD8260 240-468309/10	10.0	2.645686	20.0	1002946.0	0.264569	Y
4	ICIS 240-468309/11	20.0	5.068165	20.0	1096535.0	0.253408	Y
5	STD8260 240-468309/12	30.0	7.409557	20.0	1139450.0	0.246985	Y
6	STD8260 240-468309/13	40.0	10.005177	20.0	1193834.0	0.250129	Y
7	STD8260 240-468309/14	60.0	15.096288	20.0	1200768.0	0.251605	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

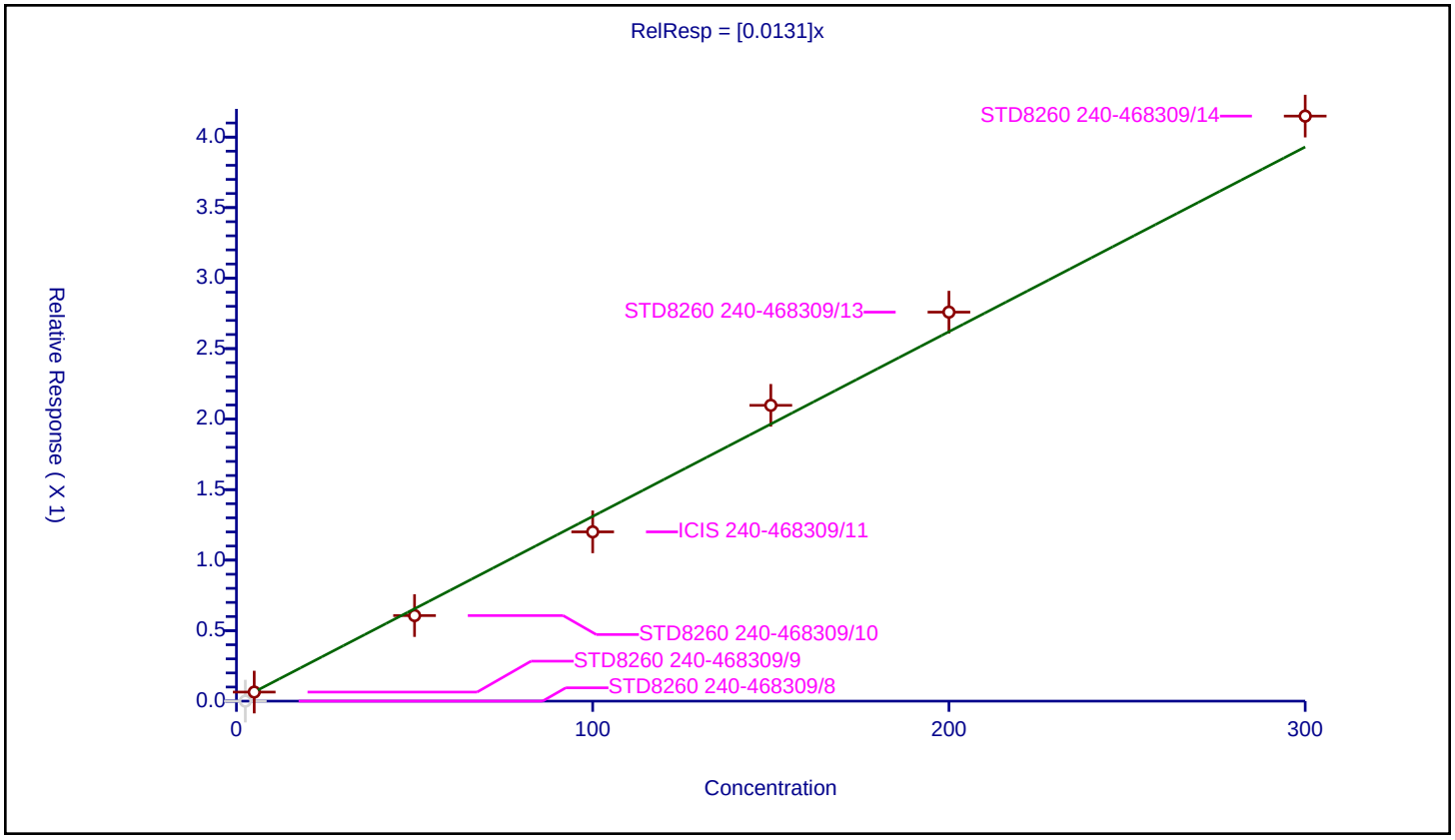
Curve Coefficients

Intercept:	0
Slope:	0.0131

Error Coefficients

Standard Error:	147000
Relative Standard Error:	6.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	2.5	0.0	20.0	1001319.0	0.0	N
2	STD8260 240-468309/9	5.0	0.064268	20.0	993029.0	0.012854	Y
3	STD8260 240-468309/10	50.0	0.606832	20.0	1002946.0	0.012137	Y
4	ICIS 240-468309/11	100.0	1.200418	20.0	1096535.0	0.012004	Y
5	STD8260 240-468309/12	150.0	2.097749	20.0	1139450.0	0.013985	Y
6	STD8260 240-468309/13	200.0	2.758591	20.0	1193834.0	0.013793	Y
7	STD8260 240-468309/14	300.0	4.149061	20.0	1200768.0	0.01383	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

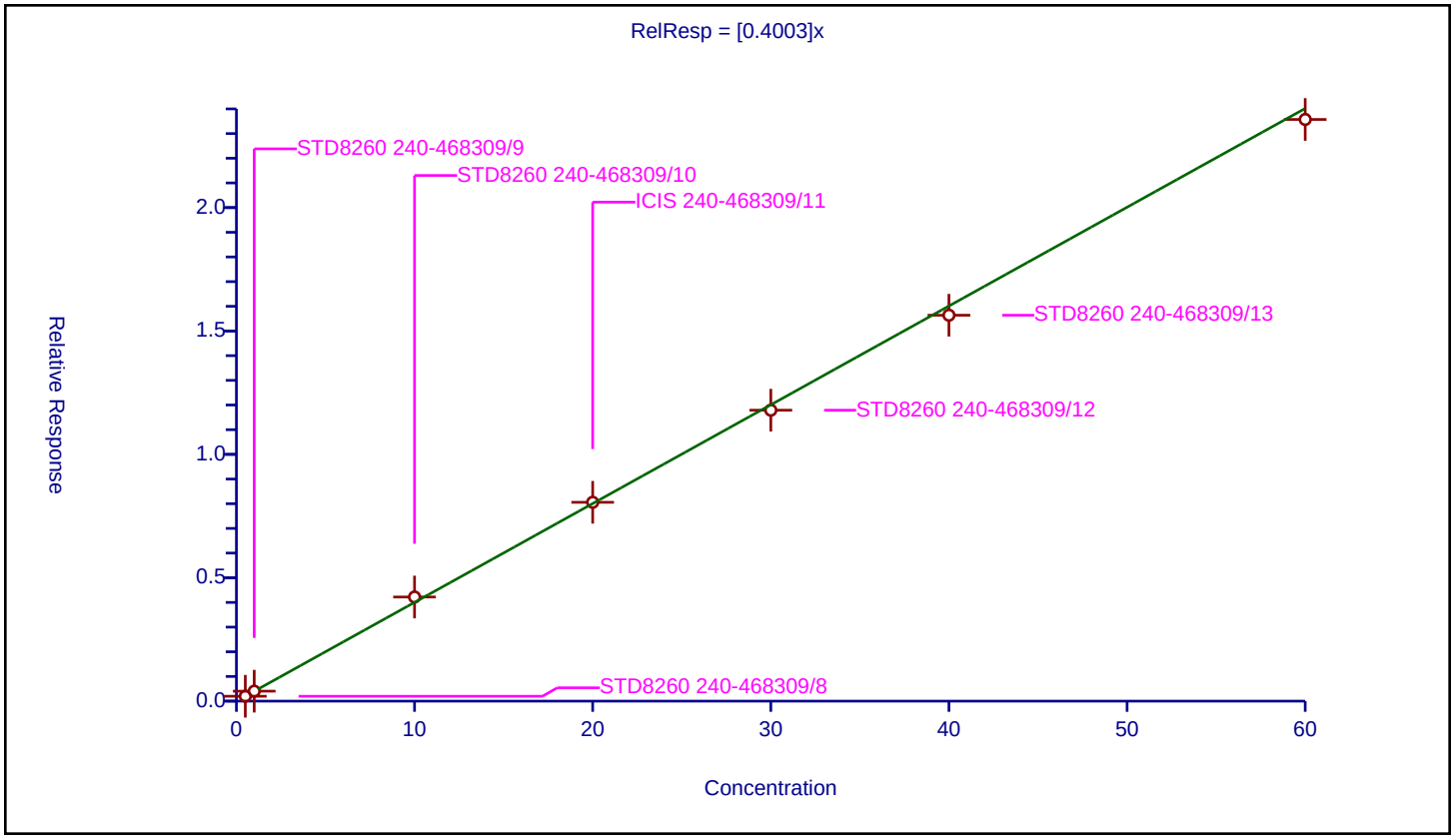
Curve Coefficients

Intercept:	0
Slope:	0.4003

Error Coefficients

Standard Error:	771000
Relative Standard Error:	2.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.198059	20.0	1001319.0	0.396118	Y
2	STD8260 240-468309/9	1.0	0.404419	20.0	993029.0	0.404419	Y
3	STD8260 240-468309/10	10.0	4.21923	20.0	1002946.0	0.421923	Y
4	ICIS 240-468309/11	20.0	8.057052	20.0	1096535.0	0.402853	Y
5	STD8260 240-468309/12	30.0	11.790197	20.0	1139450.0	0.393007	Y
6	STD8260 240-468309/13	40.0	15.638858	20.0	1193834.0	0.390971	Y
7	STD8260 240-468309/14	60.0	23.571448	20.0	1200768.0	0.392857	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

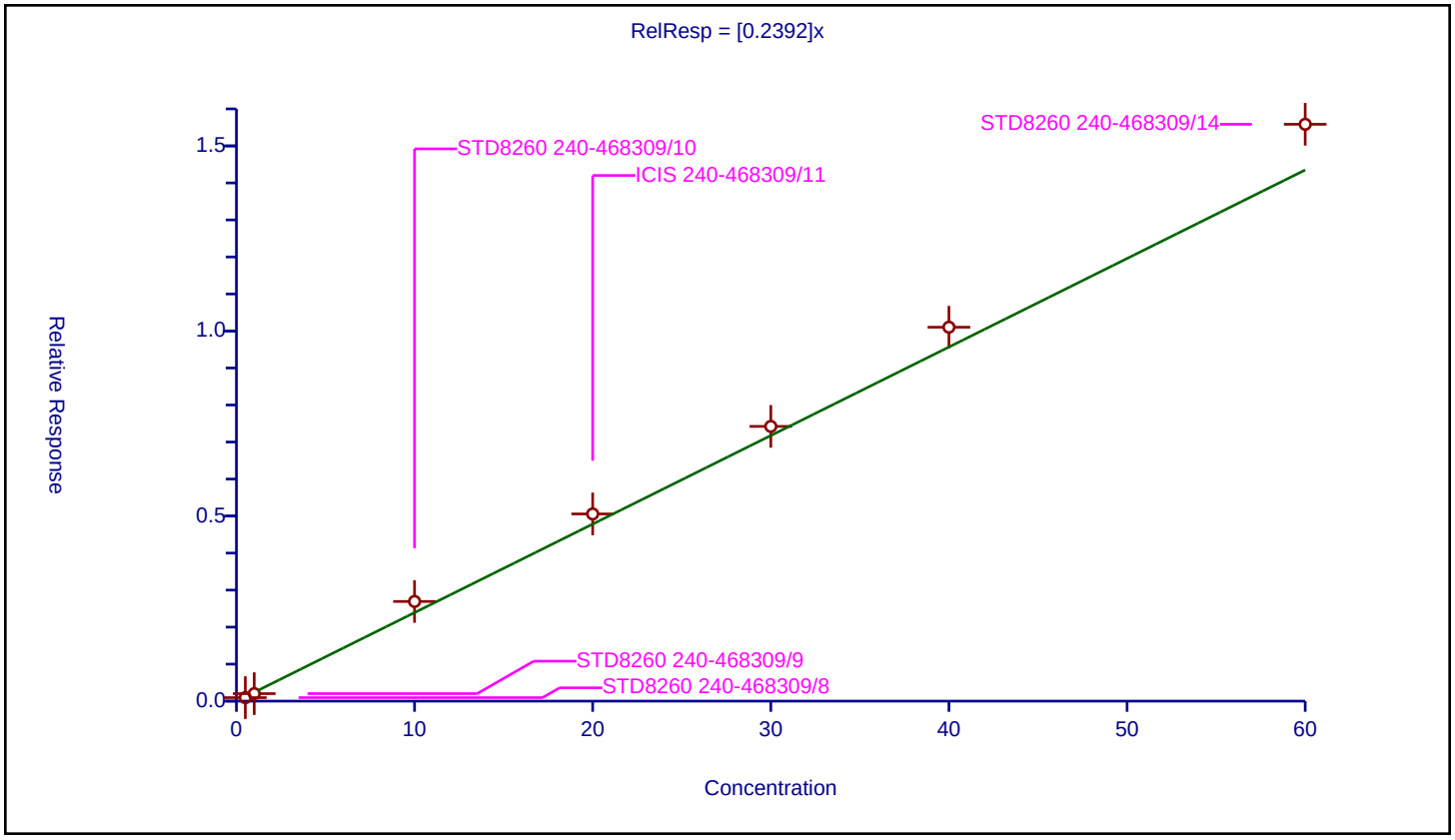
Curve Coefficients

Intercept:	0
Slope:	0.2392

Error Coefficients

Standard Error:	502000
Relative Standard Error:	12.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.094975	20.0	1001319.0	0.189949	Y
2	STD8260 240-468309/9	1.0	0.202391	20.0	993029.0	0.202391	Y
3	STD8260 240-468309/10	10.0	2.692947	20.0	1002946.0	0.269295	Y
4	ICIS 240-468309/11	20.0	5.057458	20.0	1096535.0	0.252873	Y
5	STD8260 240-468309/12	30.0	7.422564	20.0	1139450.0	0.247419	Y
6	STD8260 240-468309/13	40.0	10.101873	20.0	1193834.0	0.252547	Y
7	STD8260 240-468309/14	60.0	15.584176	20.0	1200768.0	0.259736	Y



Calibration / Acetone

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

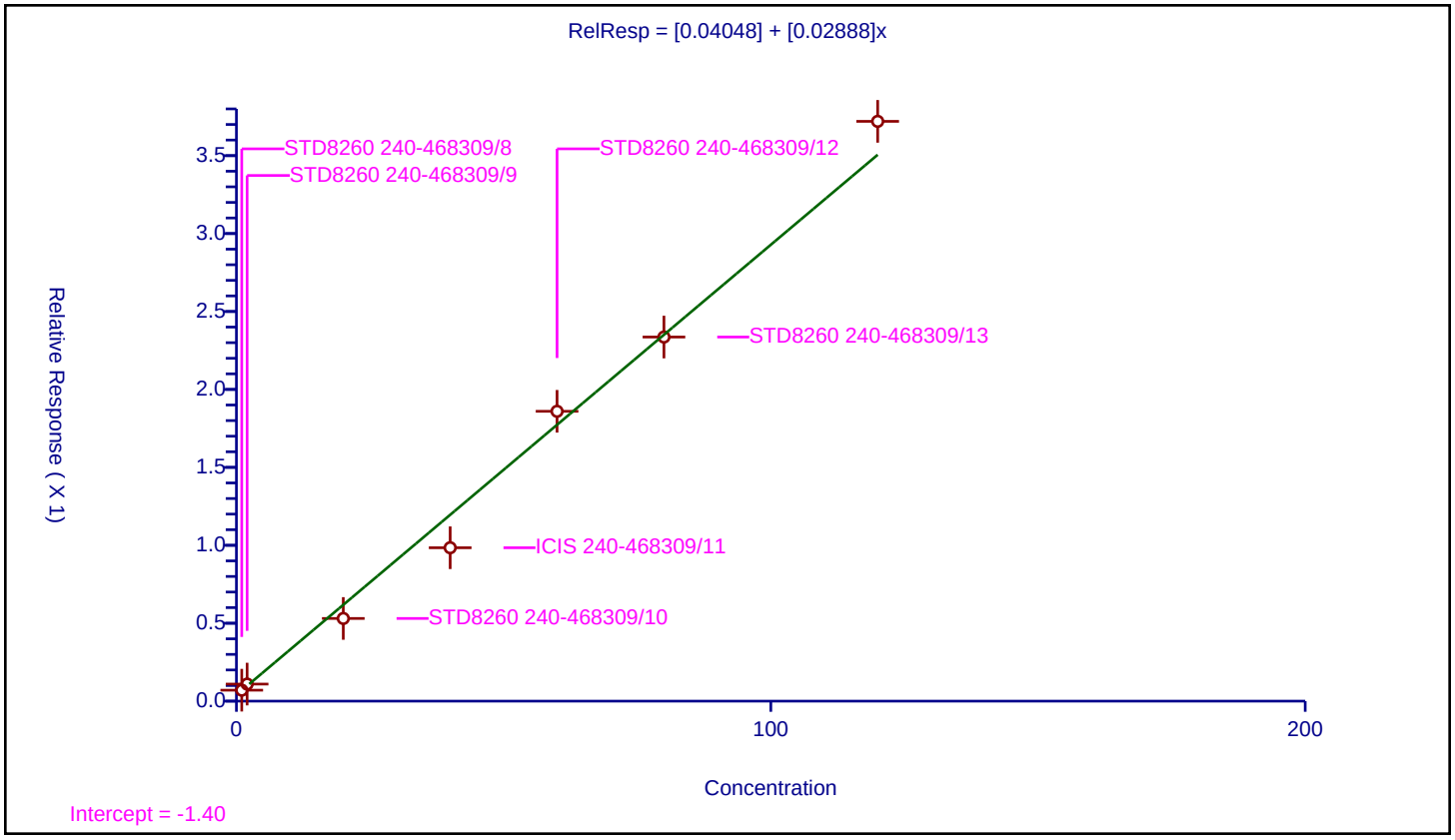
Curve Coefficients

Intercept:	0.04048
Slope:	0.02888

Error Coefficients

Standard Error:	130000
Relative Standard Error:	14.3
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	1.0	0.070327	20.0	1001319.0	0.070327	Y
2	STD8260 240-468309/9	2.0	0.109523	20.0	993029.0	0.054762	Y
3	STD8260 240-468309/10	20.0	0.530497	20.0	1002946.0	0.026525	Y
4	ICIS 240-468309/11	40.0	0.984319	20.0	1096535.0	0.024608	Y
5	STD8260 240-468309/12	60.0	1.859652	20.0	1139450.0	0.030994	Y
6	STD8260 240-468309/13	80.0	2.336221	20.0	1193834.0	0.029203	Y
7	STD8260 240-468309/14	120.0	3.720086	20.0	1200768.0	0.031001	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

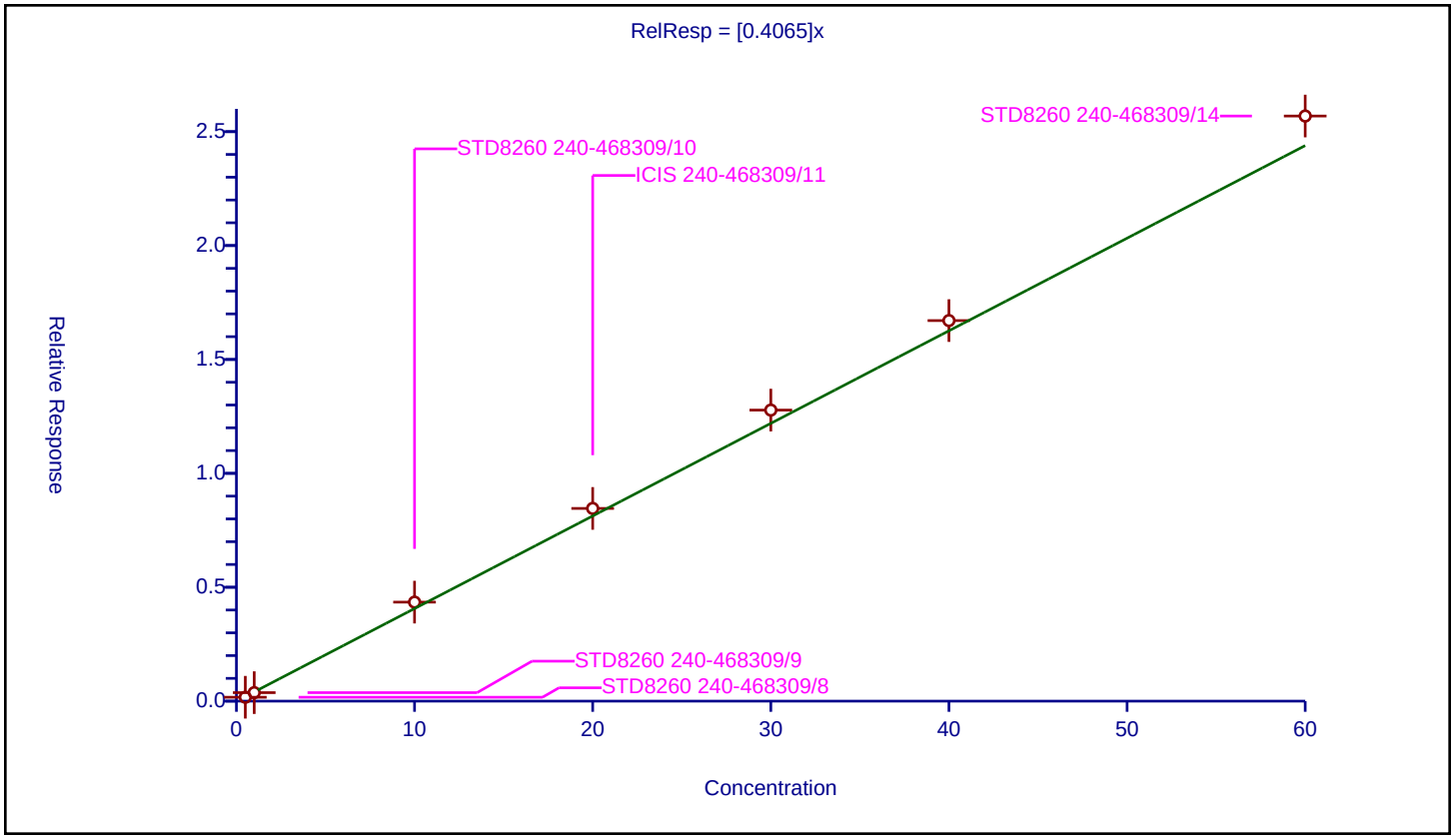
Curve Coefficients

Intercept:	0
Slope:	0.4065

Error Coefficients

Standard Error:	833000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.171494	20.0	1001319.0	0.342988	Y
2	STD8260 240-468309/9	1.0	0.373061	20.0	993029.0	0.373061	Y
3	STD8260 240-468309/10	10.0	4.346136	20.0	1002946.0	0.434614	Y
4	ICIS 240-468309/11	20.0	8.459994	20.0	1096535.0	0.423	Y
5	STD8260 240-468309/12	30.0	12.776445	20.0	1139450.0	0.425881	Y
6	STD8260 240-468309/13	40.0	16.706795	20.0	1193834.0	0.41767	Y
7	STD8260 240-468309/14	60.0	25.687177	20.0	1200768.0	0.42812	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

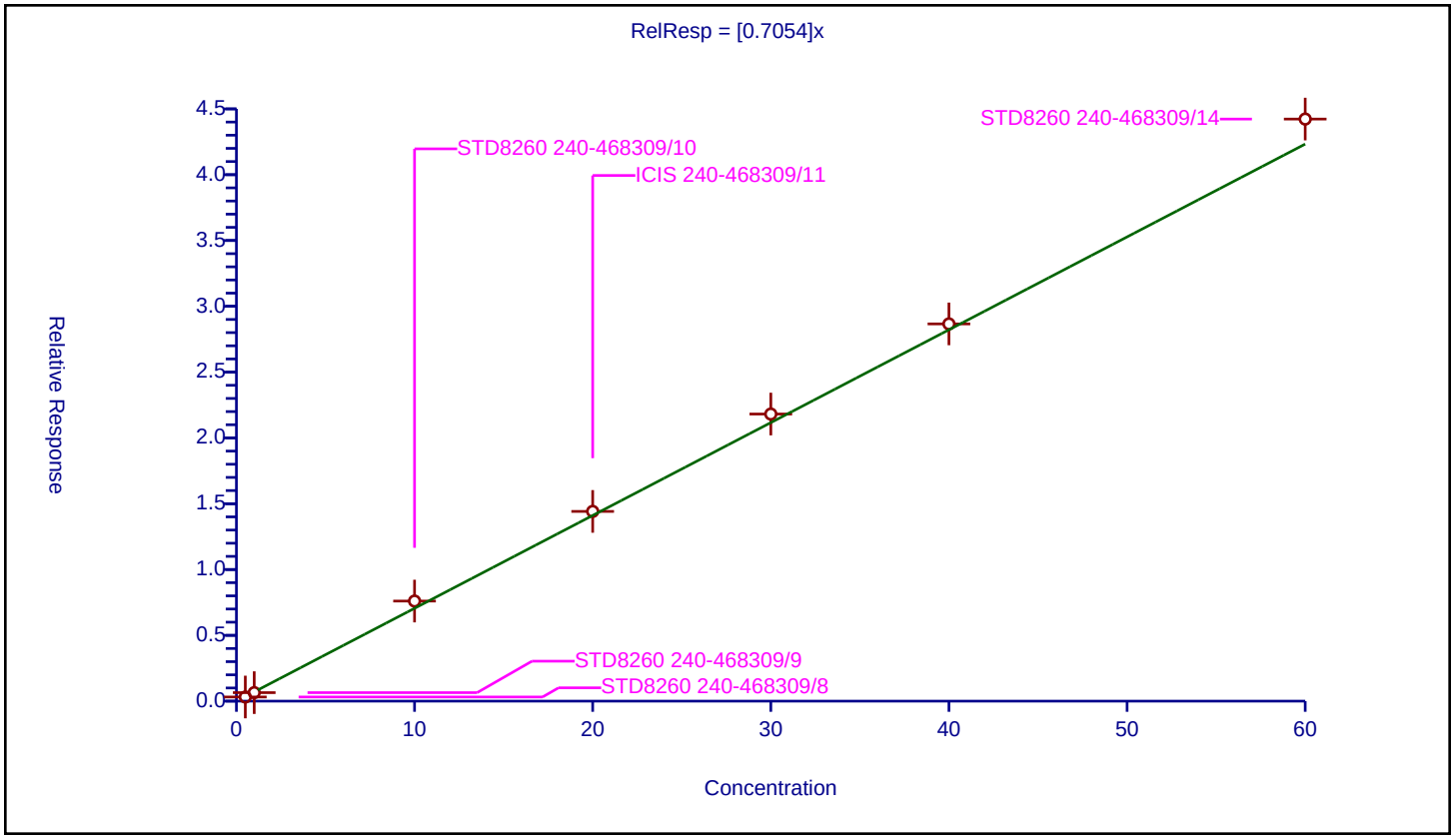
Curve Coefficients

Intercept:	0
Slope:	0.7054

Error Coefficients

Standard Error:	1430000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.315005	20.0	1001319.0	0.630009	Y
2	STD8260 240-468309/9	1.0	0.646023	20.0	993029.0	0.646023	Y
3	STD8260 240-468309/10	10.0	7.604218	20.0	1002946.0	0.760422	Y
4	ICIS 240-468309/11	20.0	14.416576	20.0	1096535.0	0.720829	Y
5	STD8260 240-468309/12	30.0	21.81384	20.0	1139450.0	0.727128	Y
6	STD8260 240-468309/13	40.0	28.663349	20.0	1193834.0	0.716584	Y
7	STD8260 240-468309/14	60.0	44.227894	20.0	1200768.0	0.737132	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

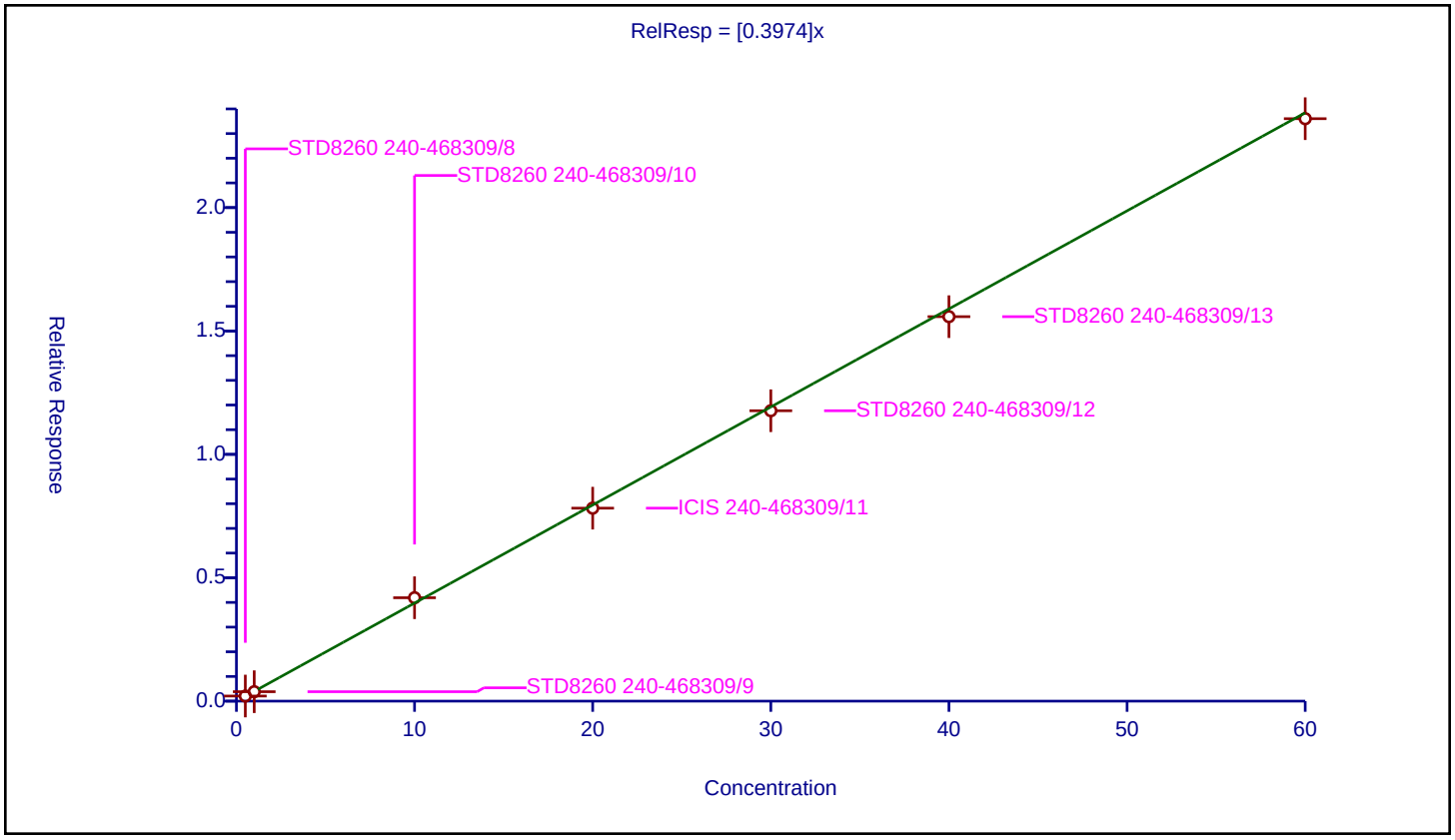
Curve Coefficients

Intercept:	0
Slope:	0.3974

Error Coefficients

Standard Error:	769000
Relative Standard Error:	3.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.206907	20.0	1001319.0	0.413814	Y
2	STD8260 240-468309/9	1.0	0.382668	20.0	993029.0	0.382668	Y
3	STD8260 240-468309/10	10.0	4.189936	20.0	1002946.0	0.418994	Y
4	ICIS 240-468309/11	20.0	7.820562	20.0	1096535.0	0.391028	Y
5	STD8260 240-468309/12	30.0	11.768116	20.0	1139450.0	0.392271	Y
6	STD8260 240-468309/13	40.0	15.580776	20.0	1193834.0	0.389519	Y
7	STD8260 240-468309/14	60.0	23.602644	20.0	1200768.0	0.393377	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

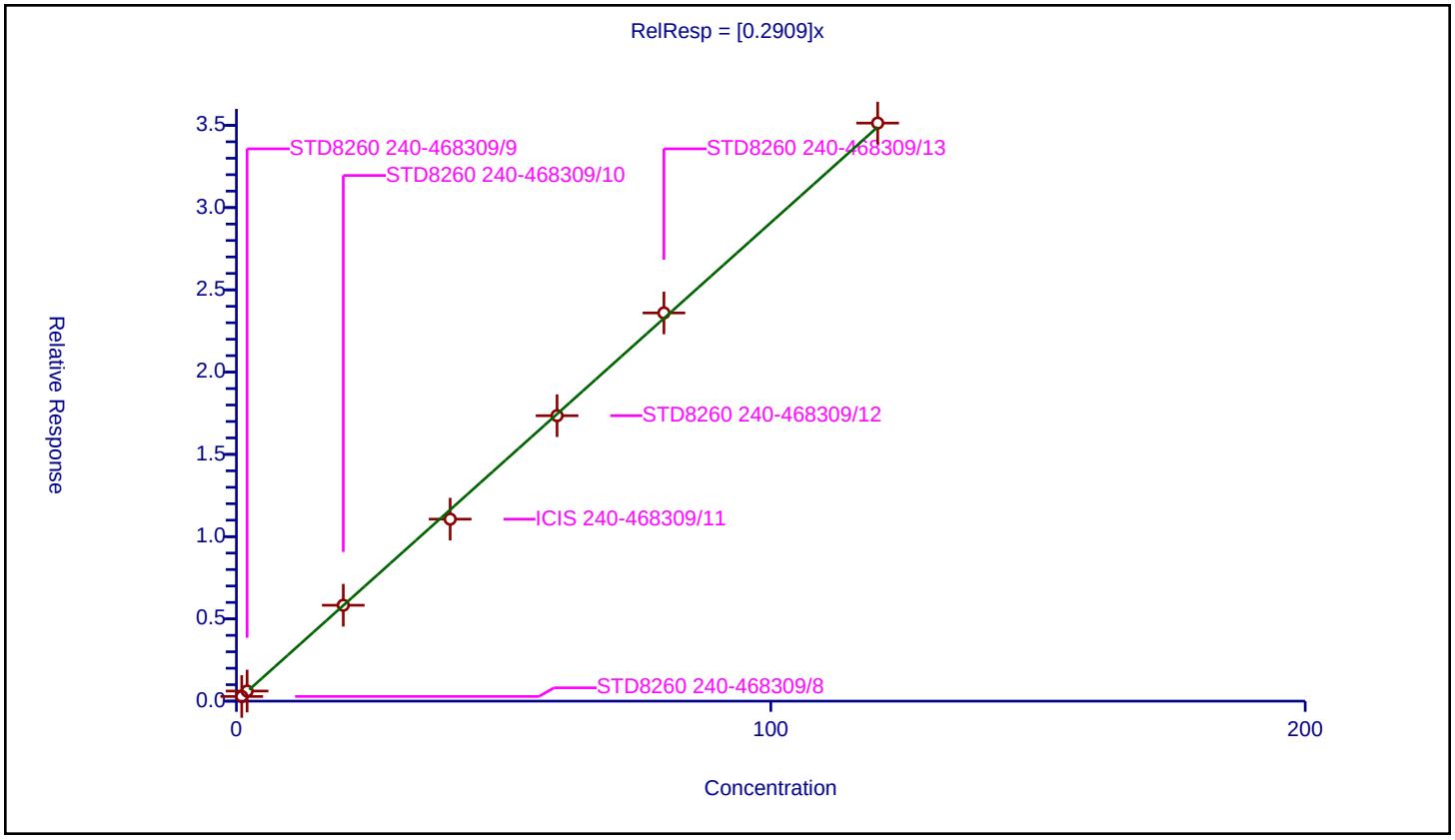
Curve Coefficients

Intercept:	0
Slope:	0.2909

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	3.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	1.0	0.284005	20.0	1001319.0	0.284005	Y
2	STD8260 240-468309/9	2.0	0.61398	20.0	993029.0	0.30699	Y
3	STD8260 240-468309/10	20.0	5.828968	20.0	1002946.0	0.291448	Y
4	ICIS 240-468309/11	40.0	11.06272	20.0	1096535.0	0.276568	Y
5	STD8260 240-468309/12	60.0	17.350511	20.0	1139450.0	0.289175	Y
6	STD8260 240-468309/13	80.0	23.597954	20.0	1193834.0	0.294974	Y
7	STD8260 240-468309/14	120.0	35.137629	20.0	1200768.0	0.292814	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

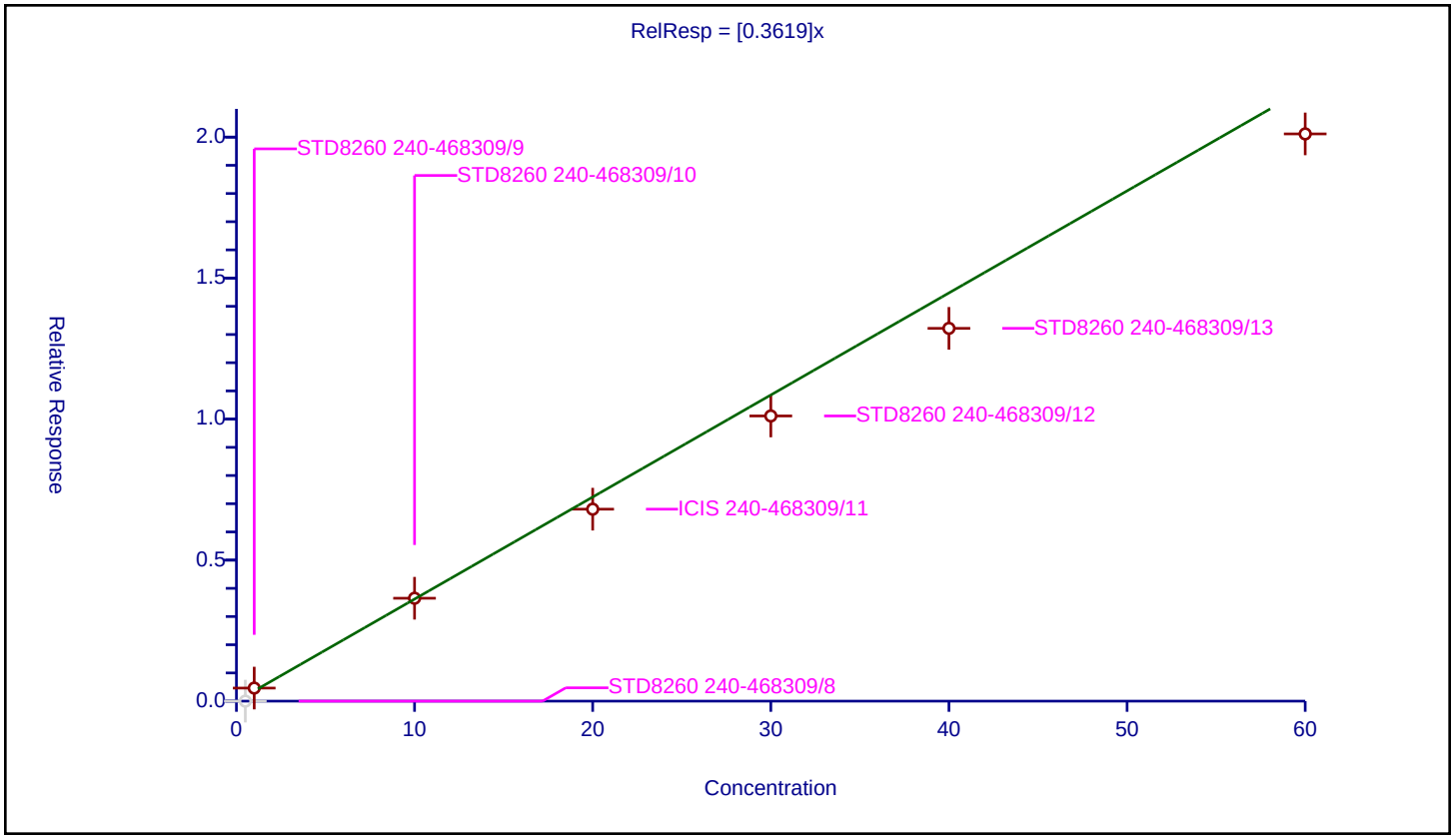
Curve Coefficients

Intercept:	0
Slope:	0.3619

Error Coefficients

Standard Error:	719000
Relative Standard Error:	14.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.0	20.0	1001319.0	0.0	N
2	STD8260 240-468309/9	1.0	0.463128	20.0	993029.0	0.463128	Y
3	STD8260 240-468309/10	10.0	3.64901	20.0	1002946.0	0.364901	Y
4	ICIS 240-468309/11	20.0	6.806732	20.0	1096535.0	0.340337	Y
5	STD8260 240-468309/12	30.0	10.112142	20.0	1139450.0	0.337071	Y
6	STD8260 240-468309/13	40.0	13.218555	20.0	1193834.0	0.330464	Y
7	STD8260 240-468309/14	60.0	20.113511	20.0	1200768.0	0.335225	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

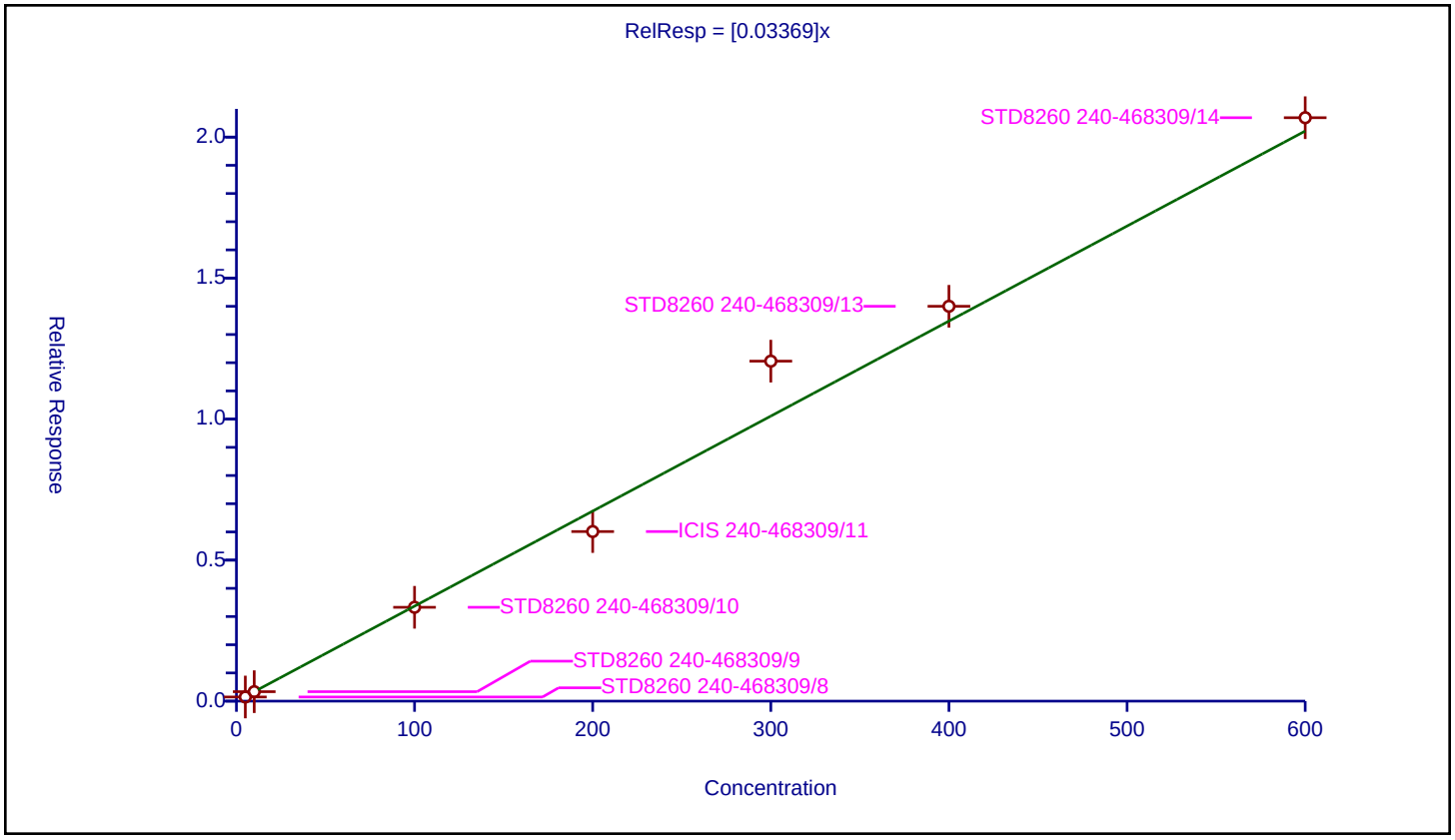
Curve Coefficients

Intercept:	0
Slope:	0.03369

Error Coefficients

Standard Error:	689000
Relative Standard Error:	10.6
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	5.0	0.146447	20.0	1001319.0	0.029289	Y
2	STD8260 240-468309/9	10.0	0.335378	20.0	993029.0	0.033538	Y
3	STD8260 240-468309/10	100.0	3.327358	20.0	1002946.0	0.033274	Y
4	ICIS 240-468309/11	200.0	6.013853	20.0	1096535.0	0.030069	Y
5	STD8260 240-468309/12	300.0	12.055395	20.0	1139450.0	0.040185	Y
6	STD8260 240-468309/13	400.0	14.001327	20.0	1193834.0	0.035003	Y
7	STD8260 240-468309/14	600.0	20.68736	20.0	1200768.0	0.034479	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

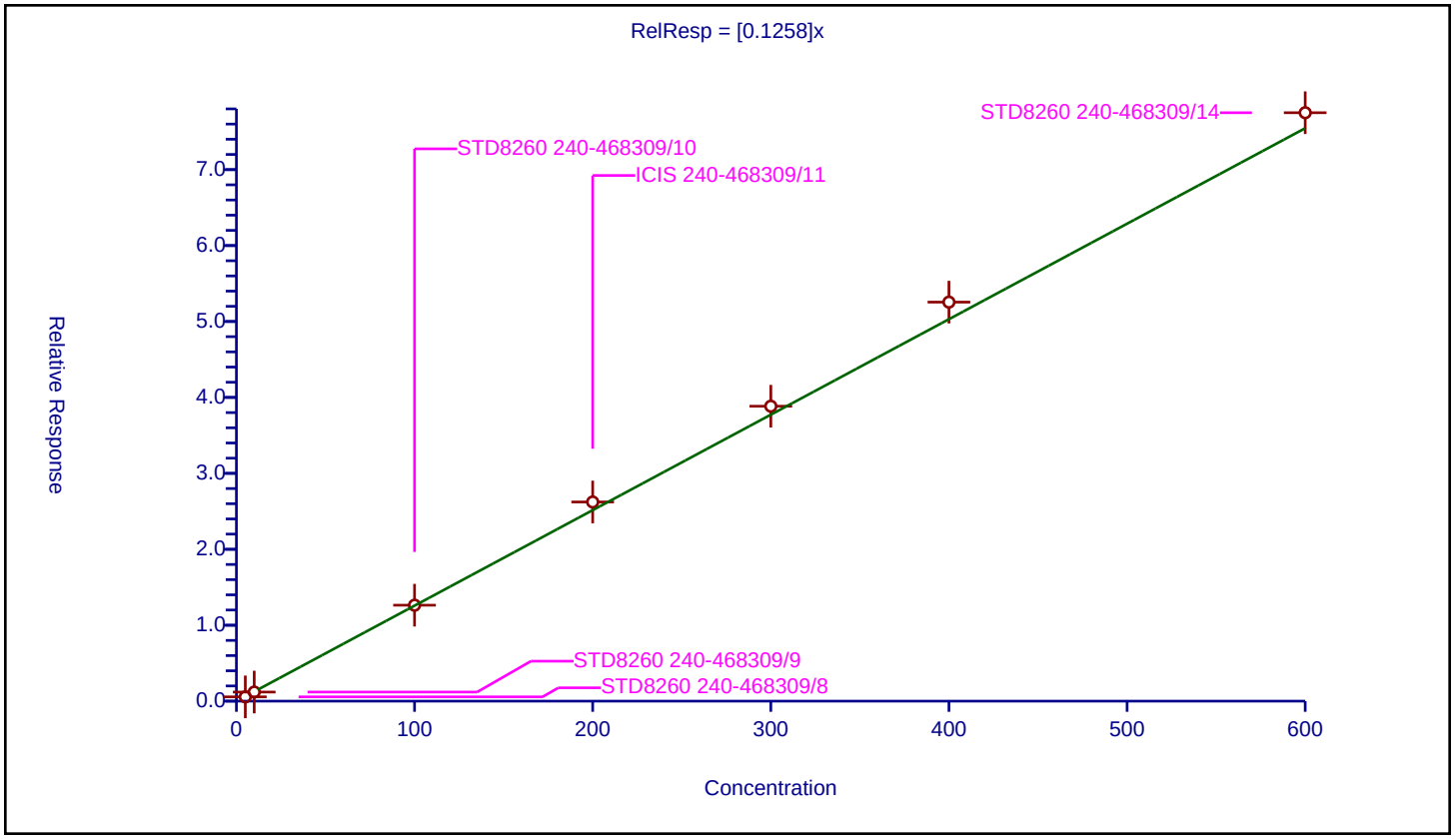
Curve Coefficients

Intercept:	0
Slope:	0.1258

Error Coefficients

Standard Error:	2540000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	5.0	0.563956	20.0	1001319.0	0.112791	Y
2	STD8260 240-468309/9	10.0	1.199643	20.0	993029.0	0.119964	Y
3	STD8260 240-468309/10	100.0	12.635735	20.0	1002946.0	0.126357	Y
4	ICIS 240-468309/11	200.0	26.230645	20.0	1096535.0	0.131153	Y
5	STD8260 240-468309/12	300.0	38.843003	20.0	1139450.0	0.129477	Y
6	STD8260 240-468309/13	400.0	52.551058	20.0	1193834.0	0.131378	Y
7	STD8260 240-468309/14	600.0	77.495453	20.0	1200768.0	0.129159	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

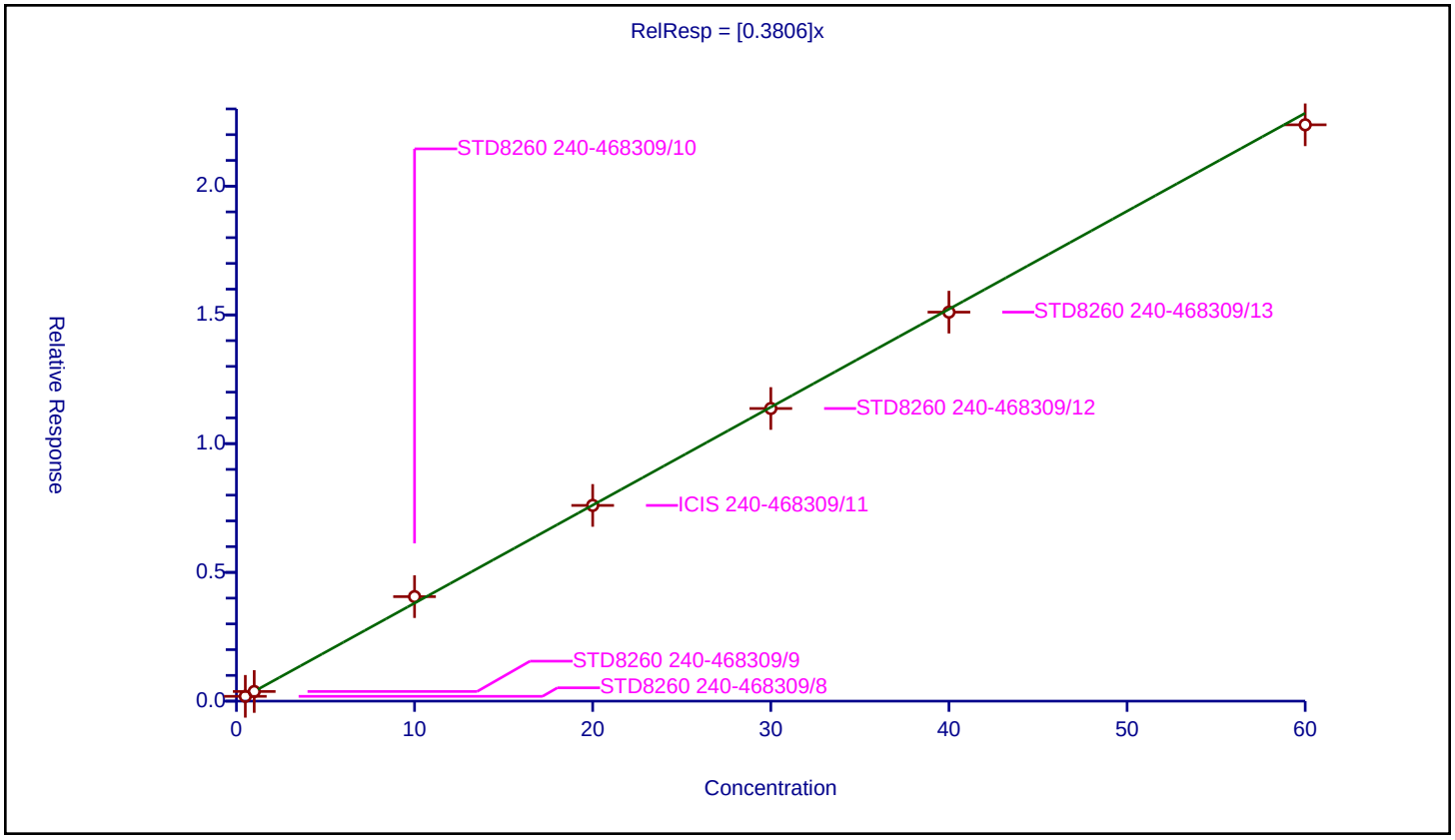
Curve Coefficients

Intercept:	0
Slope:	0.3806

Error Coefficients

Standard Error:	736000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.186973	20.0	1001319.0	0.373947	Y
2	STD8260 240-468309/9	1.0	0.374611	20.0	993029.0	0.374611	Y
3	STD8260 240-468309/10	10.0	4.058364	20.0	1002946.0	0.405836	Y
4	ICIS 240-468309/11	20.0	7.600888	20.0	1096535.0	0.380044	Y
5	STD8260 240-468309/12	30.0	11.364869	20.0	1139450.0	0.378829	Y
6	STD8260 240-468309/13	40.0	15.107025	20.0	1193834.0	0.377676	Y
7	STD8260 240-468309/14	60.0	22.382642	20.0	1200768.0	0.373044	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

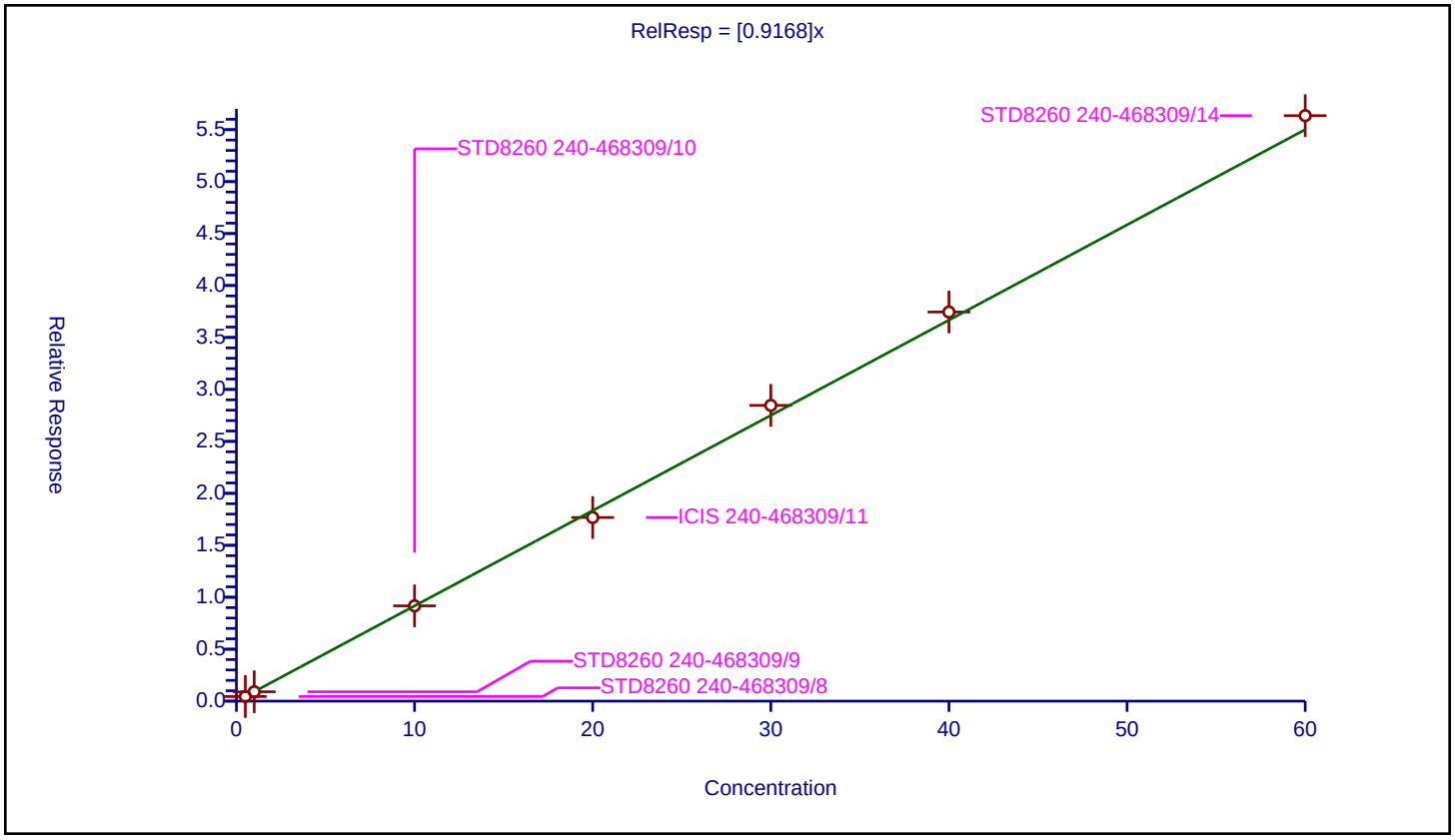
Curve Coefficients

Intercept:	0
Slope:	0.9168

Error Coefficients

Standard Error:	1840000
Relative Standard Error:	2.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.444474	20.0	1001319.0	0.888947	Y
2	STD8260 240-468309/9	1.0	0.90372	20.0	993029.0	0.90372	Y
3	STD8260 240-468309/10	10.0	9.171042	20.0	1002946.0	0.917104	Y
4	ICIS 240-468309/11	20.0	17.675113	20.0	1096535.0	0.883756	Y
5	STD8260 240-468309/12	30.0	28.464435	20.0	1139450.0	0.948814	Y
6	STD8260 240-468309/13	40.0	37.451371	20.0	1193834.0	0.936284	Y
7	STD8260 240-468309/14	60.0	56.349203	20.0	1200768.0	0.939153	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

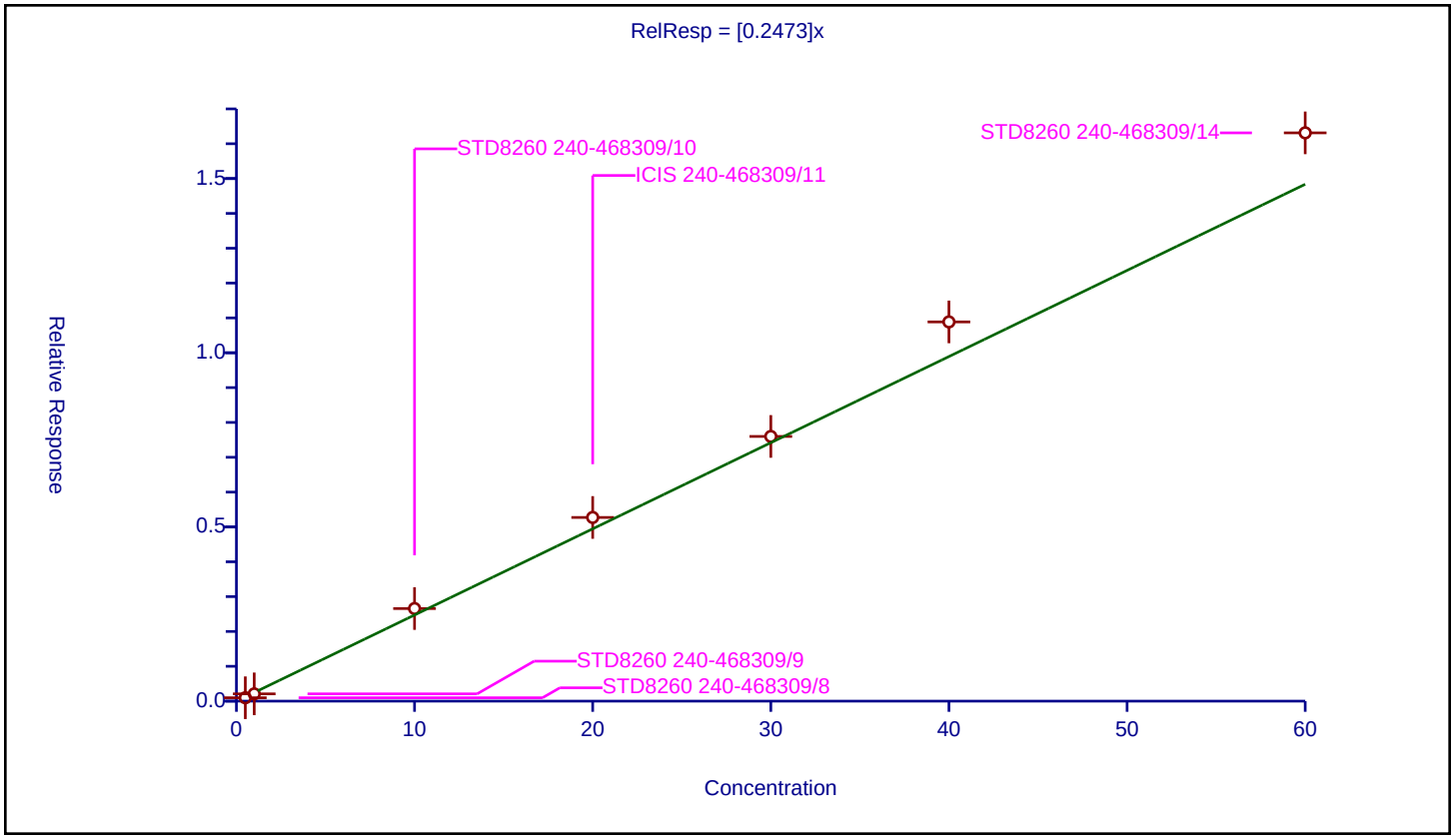
Curve Coefficients

Intercept:	0
Slope:	0.2473

Error Coefficients

Standard Error:	528000
Relative Standard Error:	12.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.097691	20.0	1001319.0	0.195382	Y
2	STD8260 240-468309/9	1.0	0.208836	20.0	993029.0	0.208836	Y
3	STD8260 240-468309/10	10.0	2.658069	20.0	1002946.0	0.265807	Y
4	ICIS 240-468309/11	20.0	5.272663	20.0	1096535.0	0.263633	Y
5	STD8260 240-468309/12	30.0	7.598262	20.0	1139450.0	0.253275	Y
6	STD8260 240-468309/13	40.0	10.885751	20.0	1193834.0	0.272144	Y
7	STD8260 240-468309/14	60.0	16.31211	20.0	1200768.0	0.271869	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

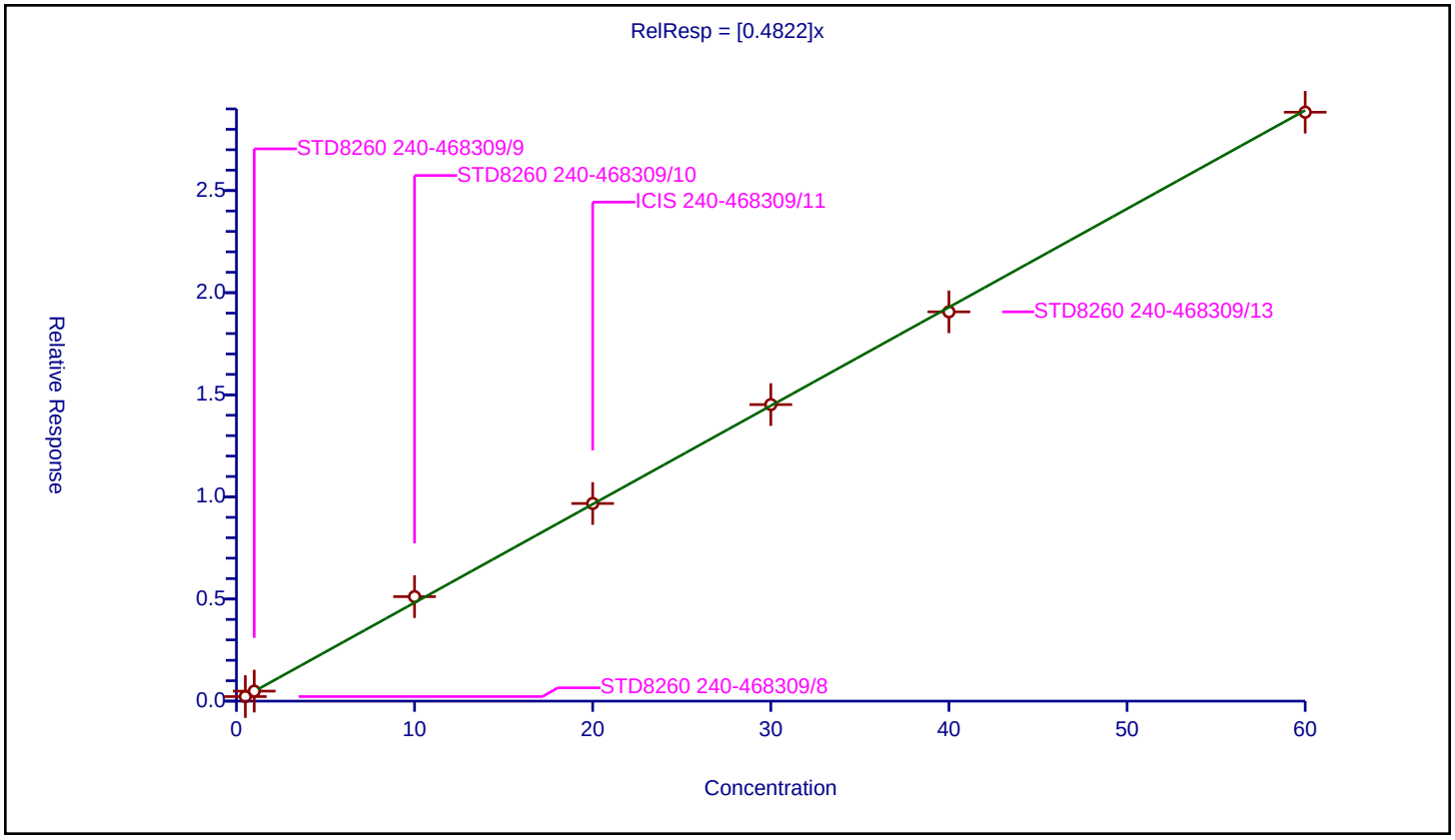
Curve Coefficients

Intercept:	0
Slope:	0.4822

Error Coefficients

Standard Error:	942000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.223725	20.0	1001319.0	0.44745	Y
2	STD8260 240-468309/9	1.0	0.490781	20.0	993029.0	0.490781	Y
3	STD8260 240-468309/10	10.0	5.116826	20.0	1002946.0	0.511683	Y
4	ICIS 240-468309/11	20.0	9.678268	20.0	1096535.0	0.483913	Y
5	STD8260 240-468309/12	30.0	14.521304	20.0	1139450.0	0.484043	Y
6	STD8260 240-468309/13	40.0	19.063505	20.0	1193834.0	0.476588	Y
7	STD8260 240-468309/14	60.0	28.838727	20.0	1200768.0	0.480645	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

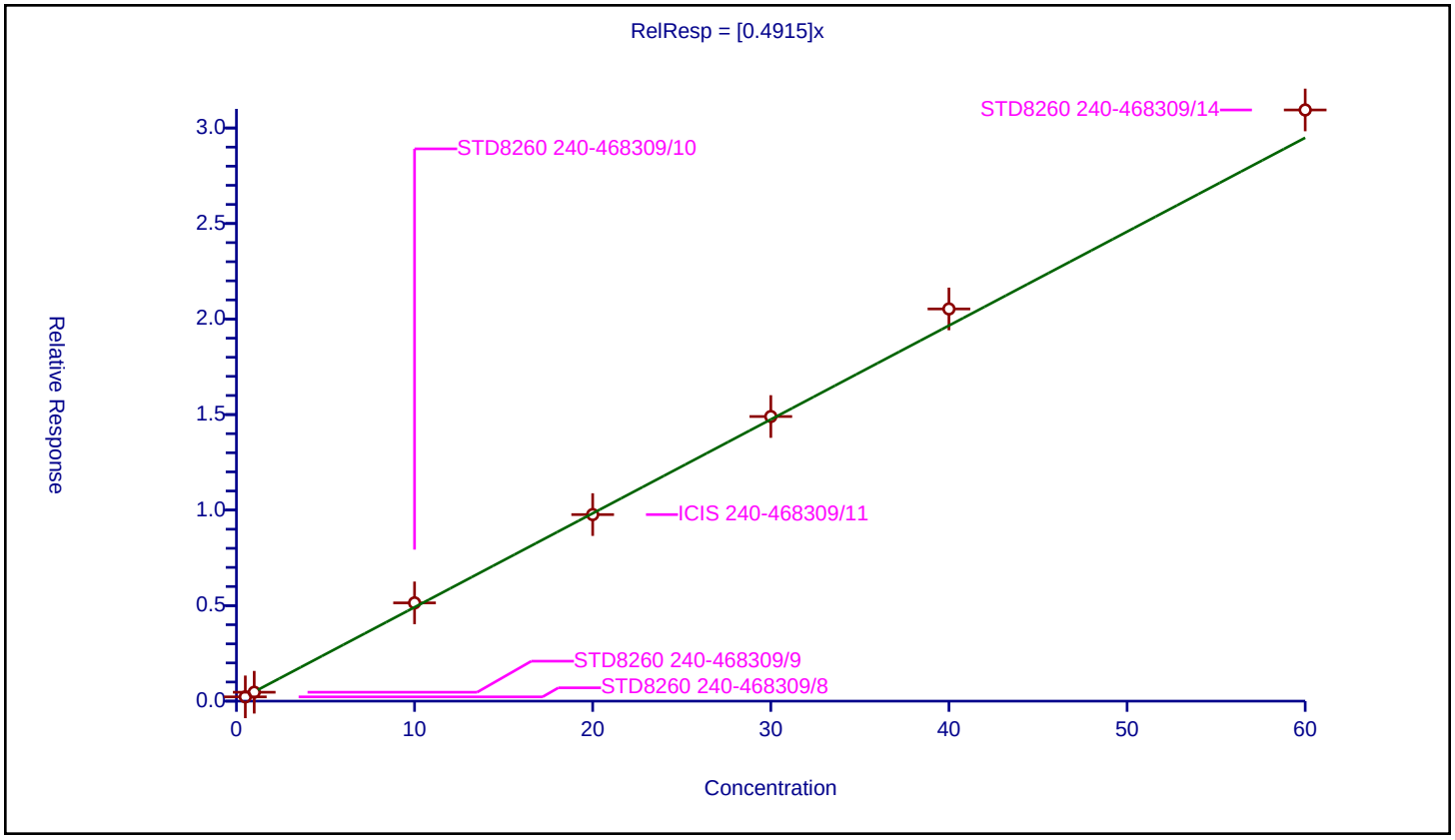
Curve Coefficients

Intercept:	0
Slope:	0.4915

Error Coefficients

Standard Error:	1000000
Relative Standard Error:	5.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.223166	20.0	1001319.0	0.446331	Y
2	STD8260 240-468309/9	1.0	0.465807	20.0	993029.0	0.465807	Y
3	STD8260 240-468309/10	10.0	5.143627	20.0	1002946.0	0.514363	Y
4	ICIS 240-468309/11	20.0	9.764704	20.0	1096535.0	0.488235	Y
5	STD8260 240-468309/12	30.0	14.8981	20.0	1139450.0	0.496603	Y
6	STD8260 240-468309/13	40.0	20.529169	20.0	1193834.0	0.513229	Y
7	STD8260 240-468309/14	60.0	30.944112	20.0	1200768.0	0.515735	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

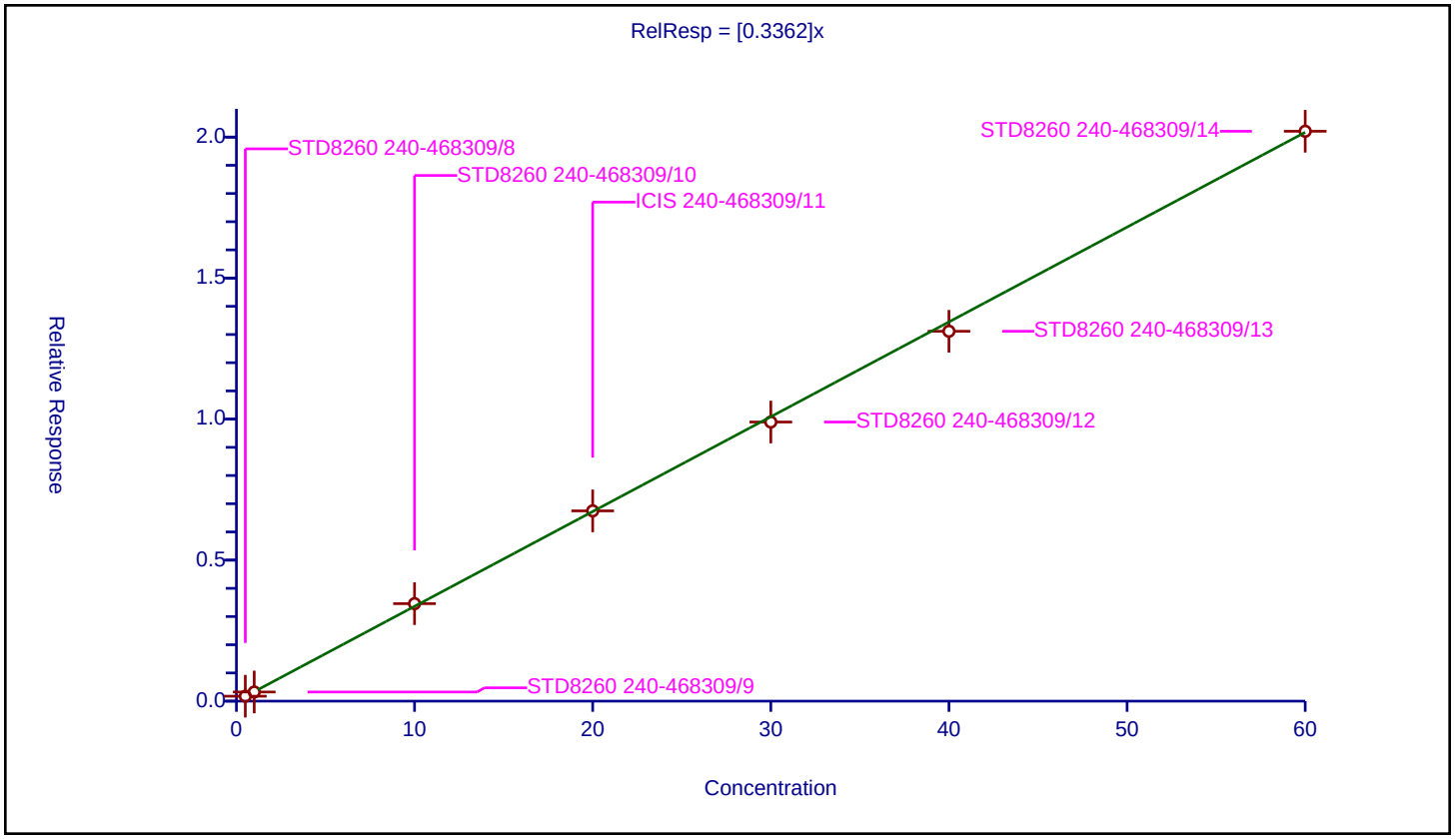
Curve Coefficients

Intercept:	0
Slope:	0.3362

Error Coefficients

Standard Error:	654000
Relative Standard Error:	2.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.175489	20.0	1001319.0	0.350977	Y
2	STD8260 240-468309/9	1.0	0.324583	20.0	993029.0	0.324583	Y
3	STD8260 240-468309/10	10.0	3.456717	20.0	1002946.0	0.345672	Y
4	ICIS 240-468309/11	20.0	6.746634	20.0	1096535.0	0.337332	Y
5	STD8260 240-468309/12	30.0	9.897108	20.0	1139450.0	0.329904	Y
6	STD8260 240-468309/13	40.0	13.114889	20.0	1193834.0	0.327872	Y
7	STD8260 240-468309/14	60.0	20.206518	20.0	1200768.0	0.336775	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

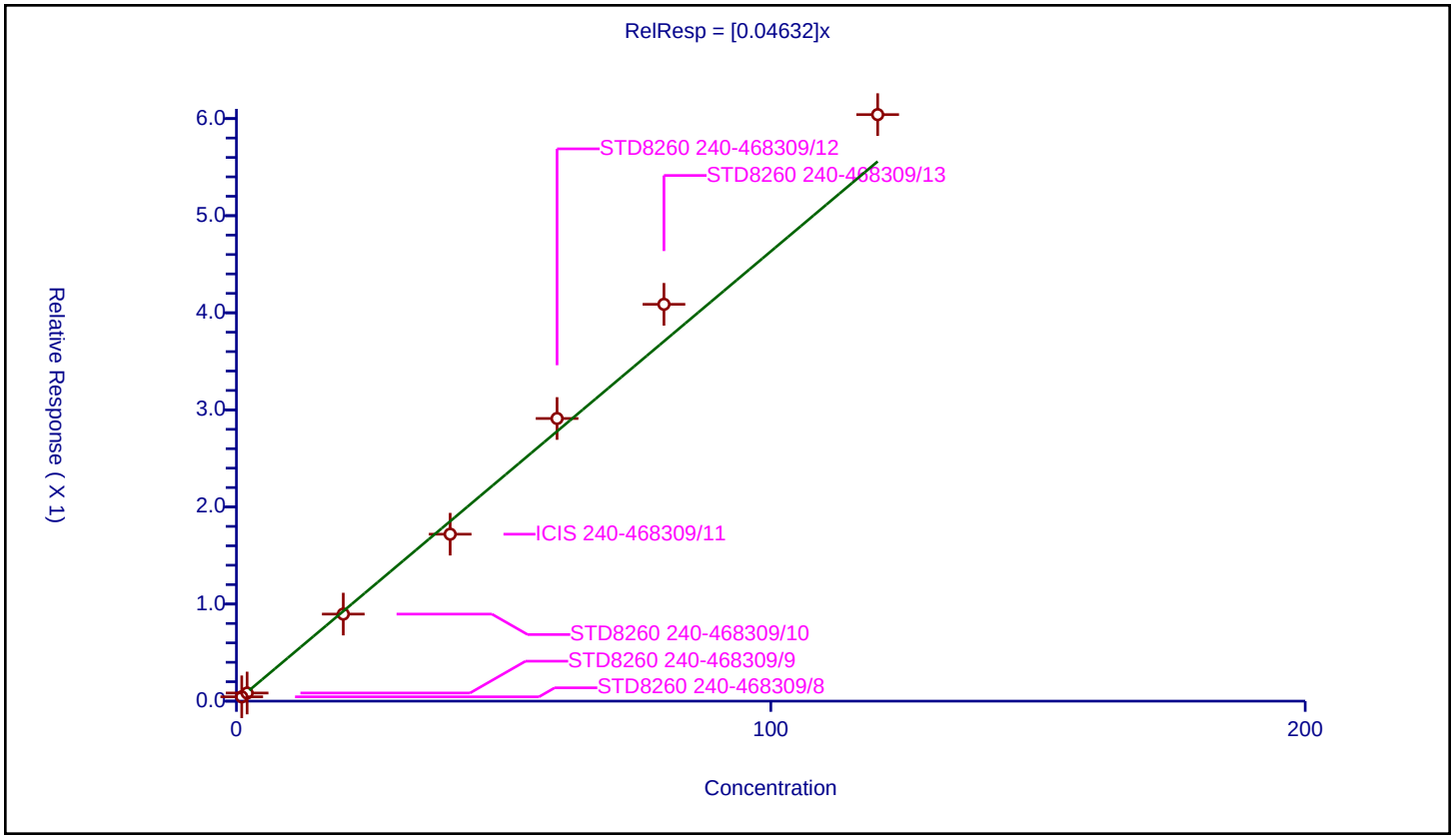
Curve Coefficients

Intercept:	0
Slope:	0.04632

Error Coefficients

Standard Error:	196000
Relative Standard Error:	7.9
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	1.0	0.044621	20.0	1001319.0	0.044621	Y
2	STD8260 240-468309/9	2.0	0.083724	20.0	993029.0	0.041862	Y
3	STD8260 240-468309/10	20.0	0.896738	20.0	1002946.0	0.044837	Y
4	ICIS 240-468309/11	40.0	1.719544	20.0	1096535.0	0.042989	Y
5	STD8260 240-468309/12	60.0	2.911159	20.0	1139450.0	0.048519	Y
6	STD8260 240-468309/13	80.0	4.087185	20.0	1193834.0	0.05109	Y
7	STD8260 240-468309/14	120.0	6.040917	20.0	1200768.0	0.050341	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

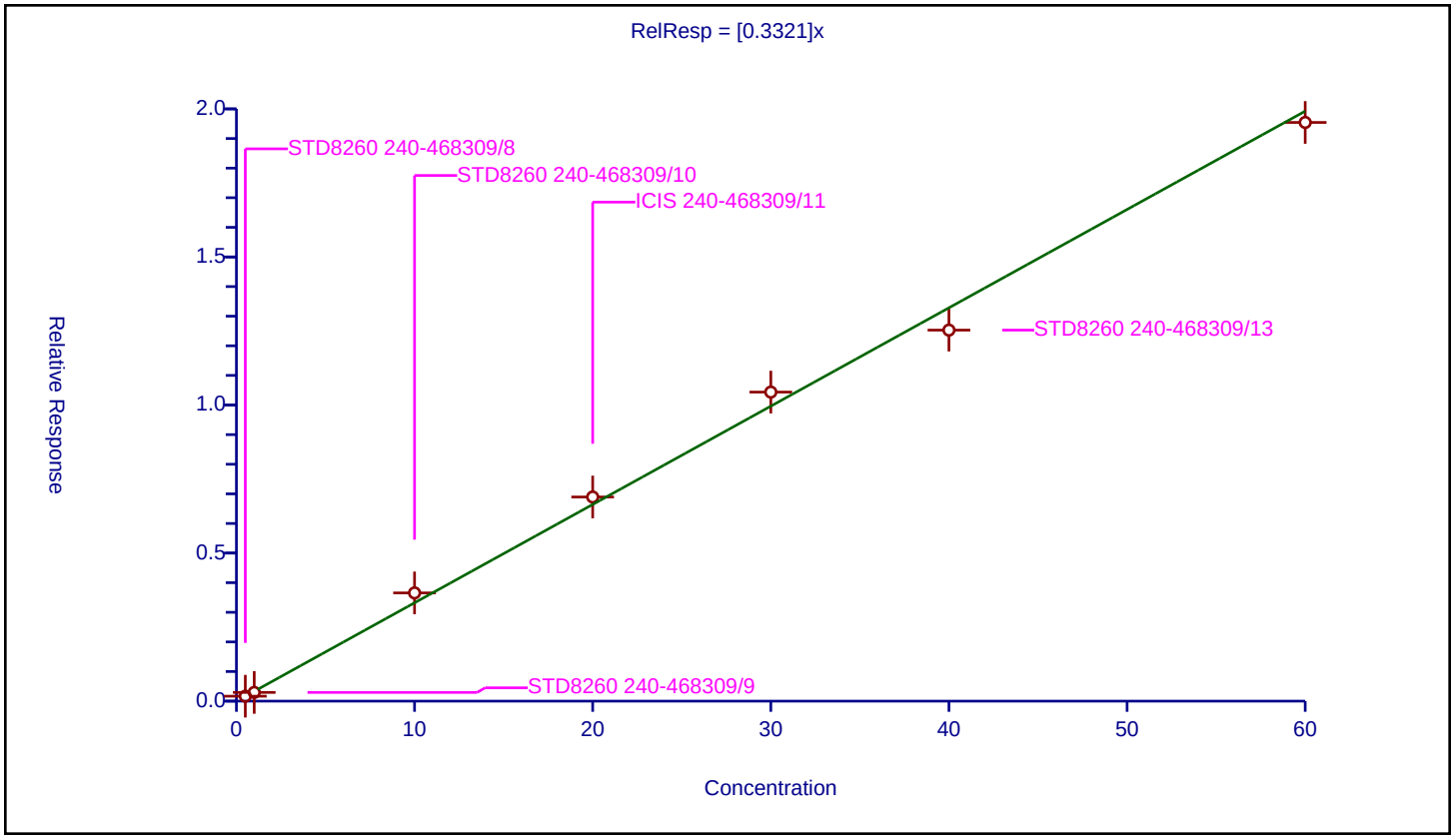
Curve Coefficients

Intercept:	0
Slope:	0.3321

Error Coefficients

Standard Error:	641000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.166401	20.0	1001319.0	0.332801	Y
2	STD8260 240-468309/9	1.0	0.294654	20.0	993029.0	0.294654	Y
3	STD8260 240-468309/10	10.0	3.654893	20.0	1002946.0	0.365489	Y
4	ICIS 240-468309/11	20.0	6.893515	20.0	1096535.0	0.344676	Y
5	STD8260 240-468309/12	30.0	10.436614	20.0	1139450.0	0.347887	Y
6	STD8260 240-468309/13	40.0	12.529765	20.0	1193834.0	0.313244	Y
7	STD8260 240-468309/14	60.0	19.542493	20.0	1200768.0	0.325708	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

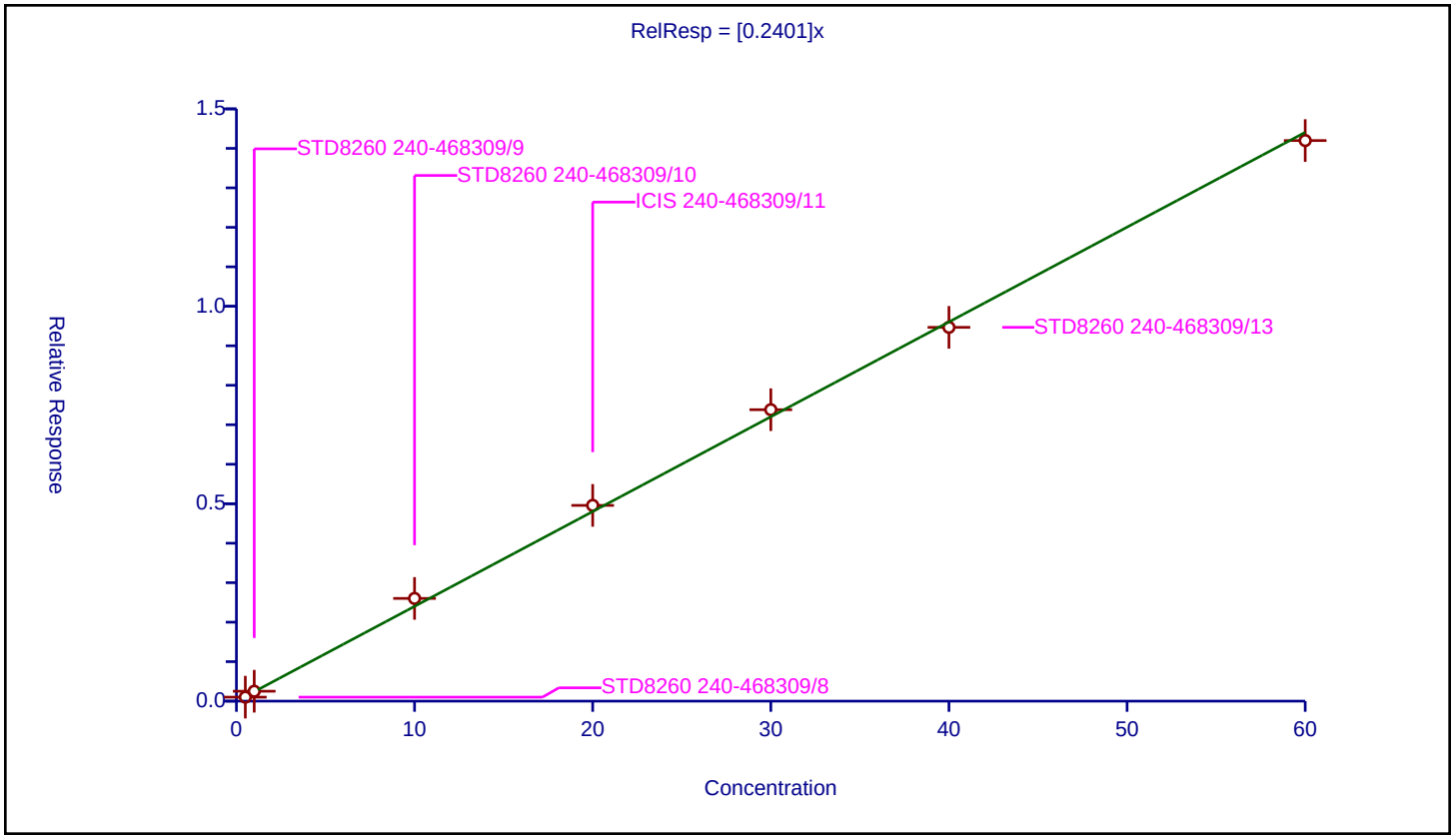
Curve Coefficients

Intercept:	0
Slope:	0.2401

Error Coefficients

Standard Error:	468000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.100947	20.0	1001319.0	0.201894	Y
2	STD8260 240-468309/9	1.0	0.251392	20.0	993029.0	0.251392	Y
3	STD8260 240-468309/10	10.0	2.601735	20.0	1002946.0	0.260174	Y
4	ICIS 240-468309/11	20.0	4.957835	20.0	1096535.0	0.247892	Y
5	STD8260 240-468309/12	30.0	7.381351	20.0	1139450.0	0.246045	Y
6	STD8260 240-468309/13	40.0	9.466911	20.0	1193834.0	0.236673	Y
7	STD8260 240-468309/14	60.0	14.19793	20.0	1200768.0	0.236632	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

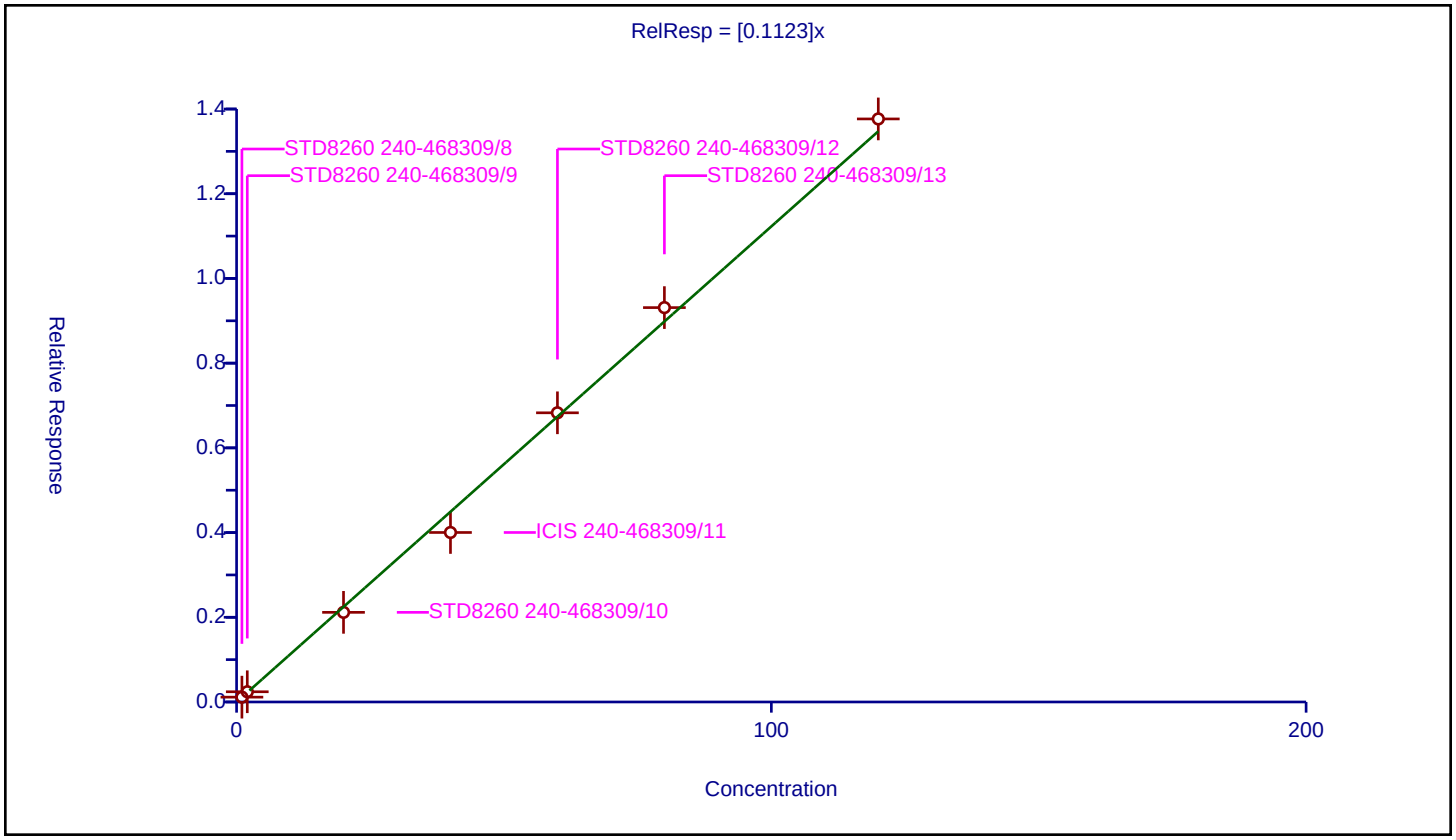
Curve Coefficients

Intercept:	0
Slope:	0.1123

Error Coefficients

Standard Error:	448000
Relative Standard Error:	6.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	1.0	0.114569	20.0	1001319.0	0.114569	Y
2	STD8260 240-468309/9	2.0	0.241201	20.0	993029.0	0.120601	Y
3	STD8260 240-468309/10	20.0	2.116525	20.0	1002946.0	0.105826	Y
4	ICIS 240-468309/11	40.0	4.001933	20.0	1096535.0	0.100048	Y
5	STD8260 240-468309/12	60.0	6.827785	20.0	1139450.0	0.113796	Y
6	STD8260 240-468309/13	80.0	9.311228	20.0	1193834.0	0.11639	Y
7	STD8260 240-468309/14	120.0	13.76584	20.0	1200768.0	0.114715	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

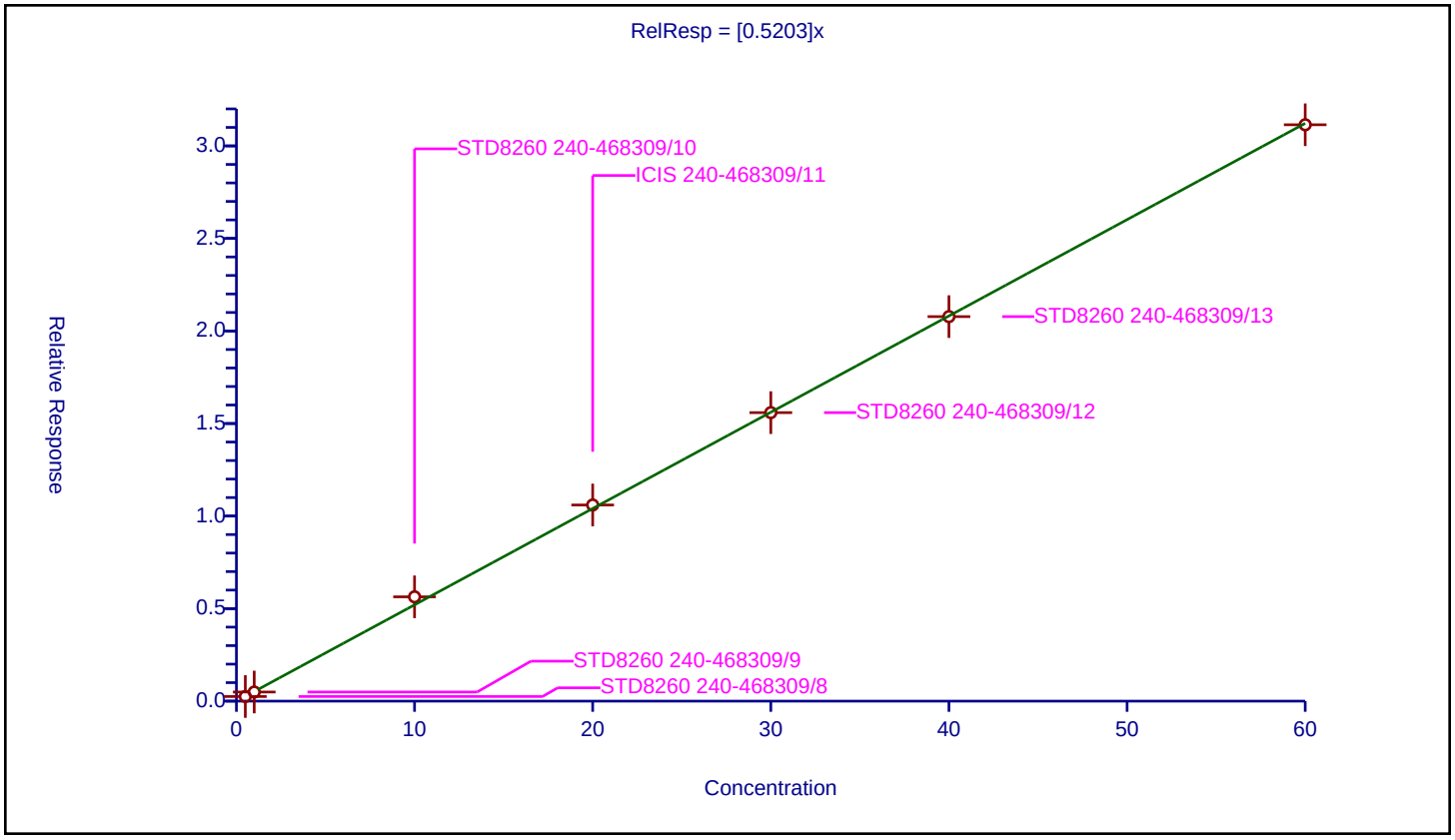
Curve Coefficients

Intercept:	0
Slope:	0.5203

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.249331	20.0	1001319.0	0.498662	Y
2	STD8260 240-468309/9	1.0	0.492171	20.0	993029.0	0.492171	Y
3	STD8260 240-468309/10	10.0	5.636076	20.0	1002946.0	0.563608	Y
4	ICIS 240-468309/11	20.0	10.597491	20.0	1096535.0	0.529875	Y
5	STD8260 240-468309/12	30.0	15.588802	20.0	1139450.0	0.519627	Y
6	STD8260 240-468309/13	40.0	20.776306	20.0	1193834.0	0.519408	Y
7	STD8260 240-468309/14	60.0	31.142052	20.0	1200768.0	0.519034	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

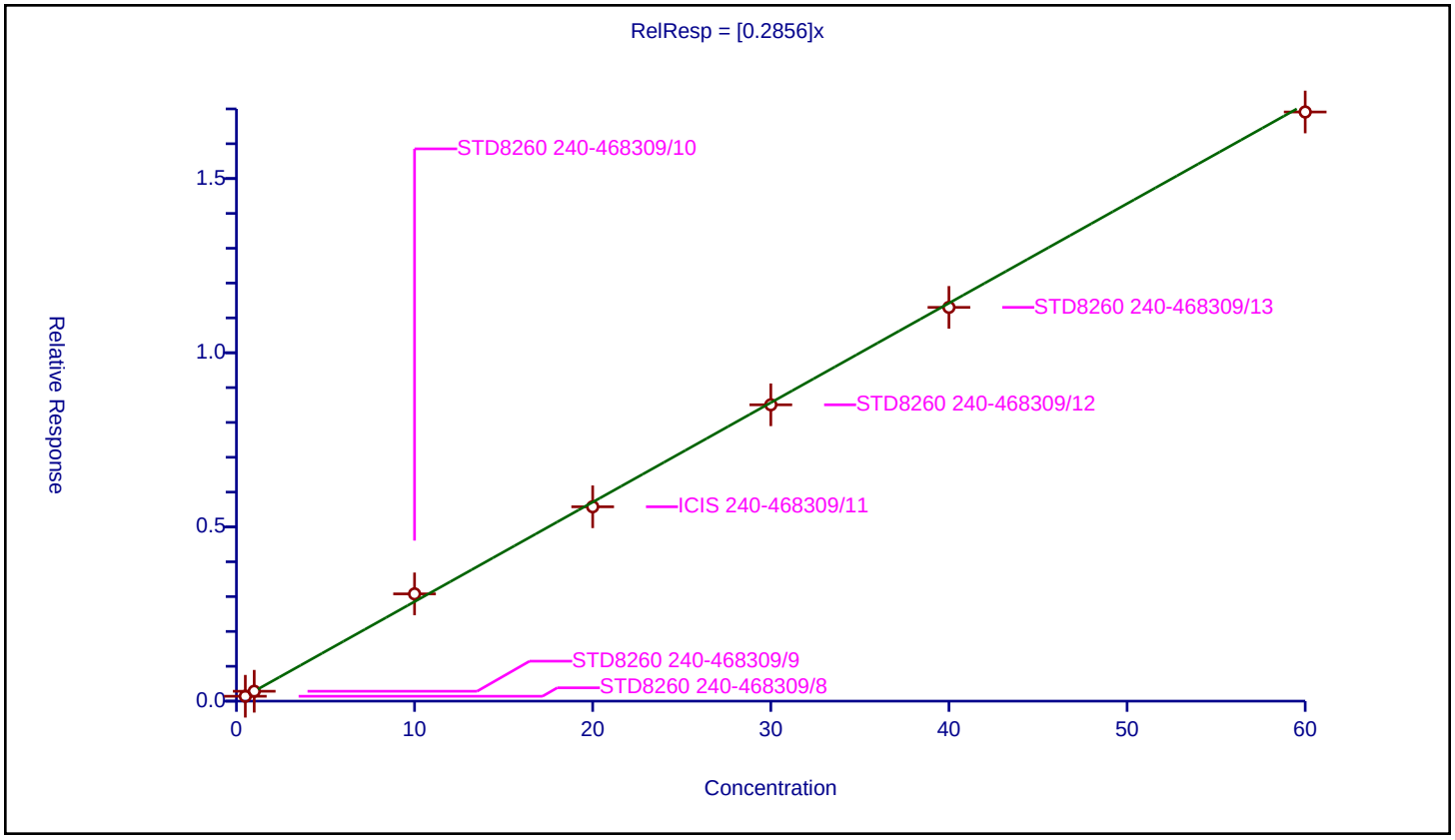
Curve Coefficients

Intercept:	0
Slope:	0.2856

Error Coefficients

Standard Error:	554000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.140175	20.0	1001319.0	0.28035	Y
2	STD8260 240-468309/9	1.0	0.283939	20.0	993029.0	0.283939	Y
3	STD8260 240-468309/10	10.0	3.078969	20.0	1002946.0	0.307897	Y
4	ICIS 240-468309/11	20.0	5.579101	20.0	1096535.0	0.278955	Y
5	STD8260 240-468309/12	30.0	8.506648	20.0	1139450.0	0.283555	Y
6	STD8260 240-468309/13	40.0	11.302761	20.0	1193834.0	0.282569	Y
7	STD8260 240-468309/14	60.0	16.911177	20.0	1200768.0	0.281853	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

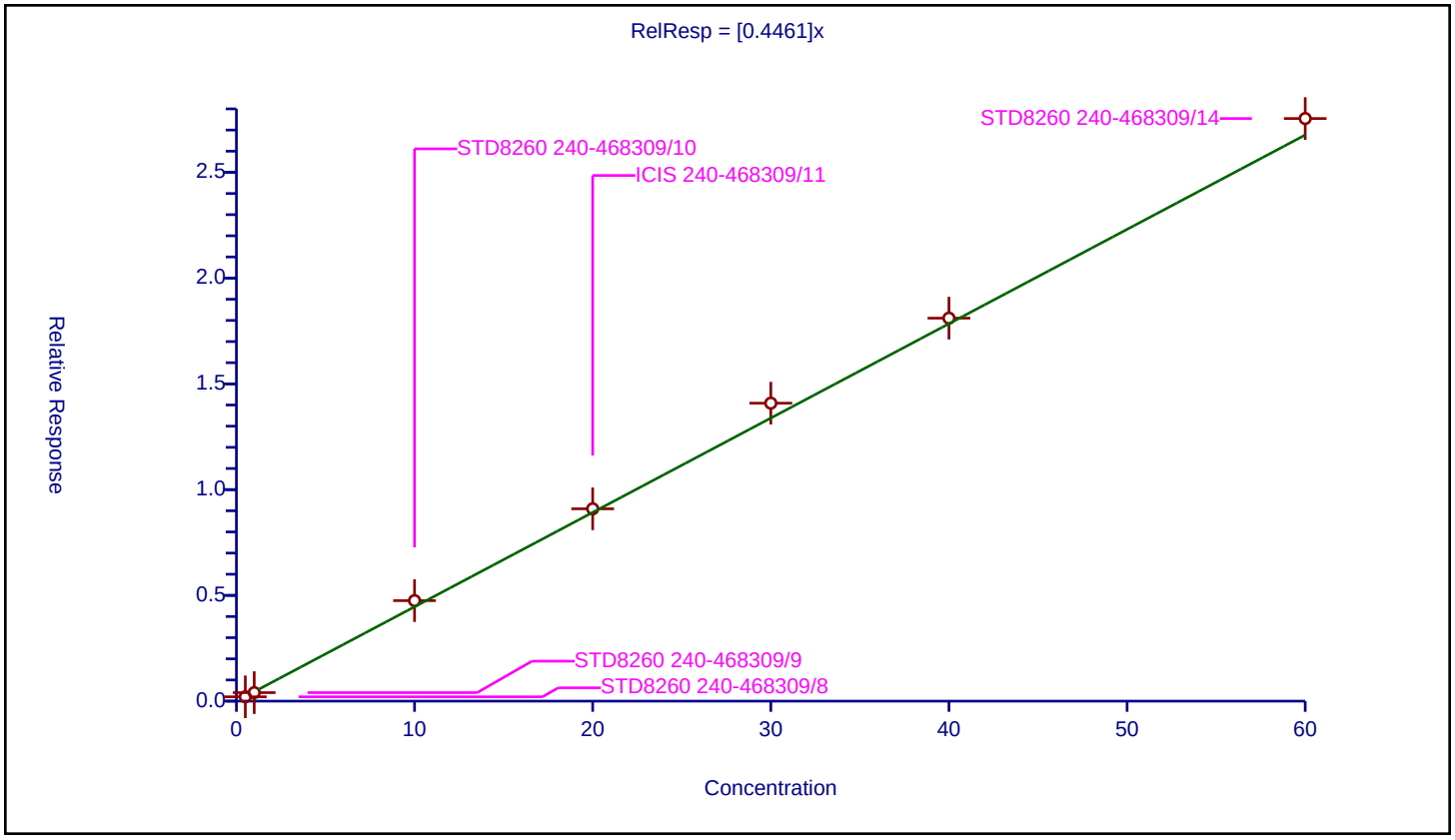
Curve Coefficients

Intercept:	0
Slope:	0.4461

Error Coefficients

Standard Error:	899000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.20451	20.0	1001319.0	0.409021	Y
2	STD8260 240-468309/9	1.0	0.402486	20.0	993029.0	0.402486	Y
3	STD8260 240-468309/10	10.0	4.75212	20.0	1002946.0	0.475212	Y
4	ICIS 240-468309/11	20.0	9.092934	20.0	1096535.0	0.454647	Y
5	STD8260 240-468309/12	30.0	14.086989	20.0	1139450.0	0.469566	Y
6	STD8260 240-468309/13	40.0	18.107107	20.0	1193834.0	0.452678	Y
7	STD8260 240-468309/14	60.0	27.544355	20.0	1200768.0	0.459073	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

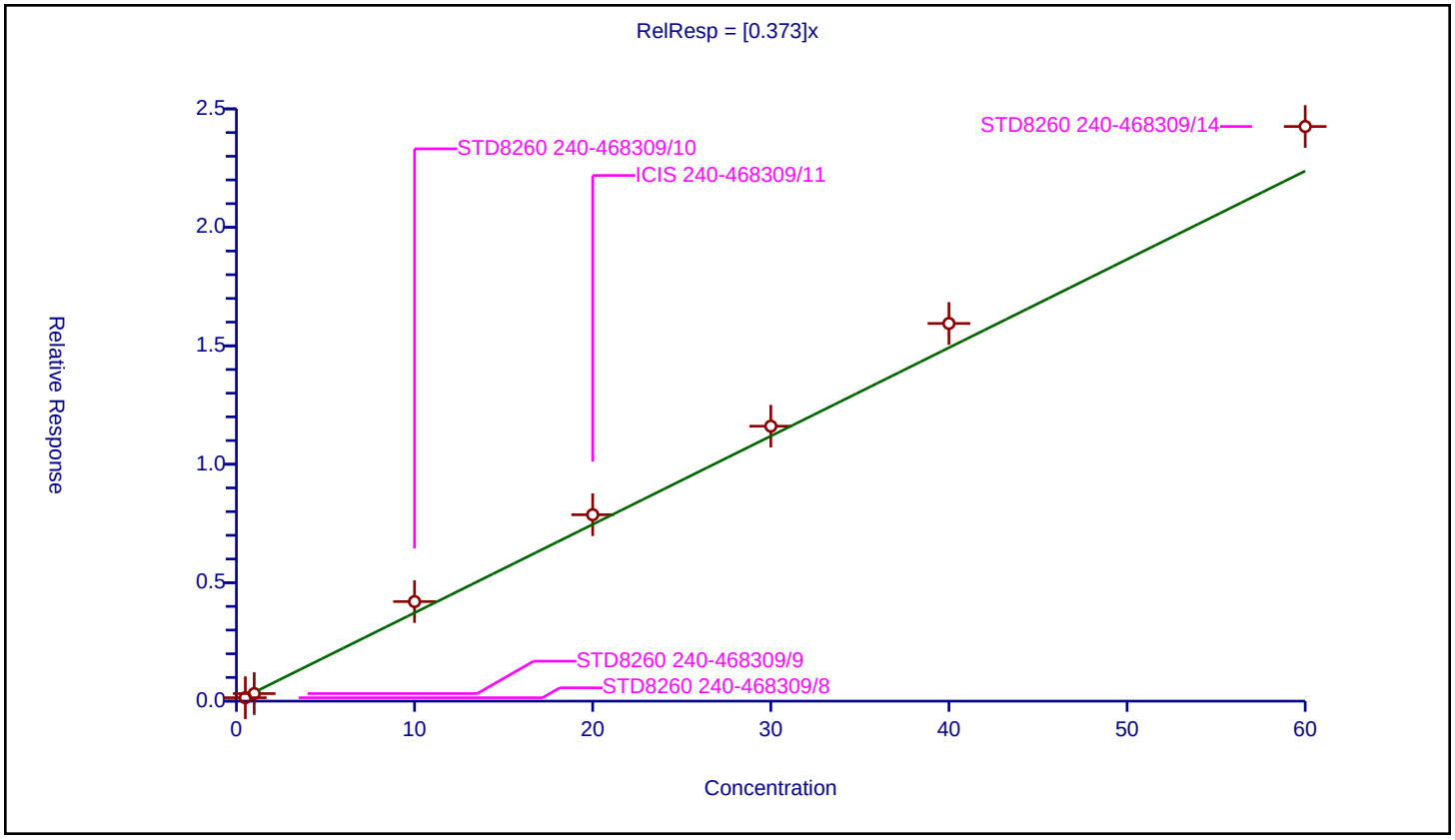
Curve Coefficients

Intercept:	0
Slope:	0.373

Error Coefficients

Standard Error:	785000
Relative Standard Error:	13.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.14409	20.0	1001319.0	0.28818	Y
2	STD8260 240-468309/9	1.0	0.319205	20.0	993029.0	0.319205	Y
3	STD8260 240-468309/10	10.0	4.202779	20.0	1002946.0	0.420278	Y
4	ICIS 240-468309/11	20.0	7.86855	20.0	1096535.0	0.393427	Y
5	STD8260 240-468309/12	30.0	11.606863	20.0	1139450.0	0.386895	Y
6	STD8260 240-468309/13	40.0	15.942317	20.0	1193834.0	0.398558	Y
7	STD8260 240-468309/14	60.0	24.256992	20.0	1200768.0	0.404283	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

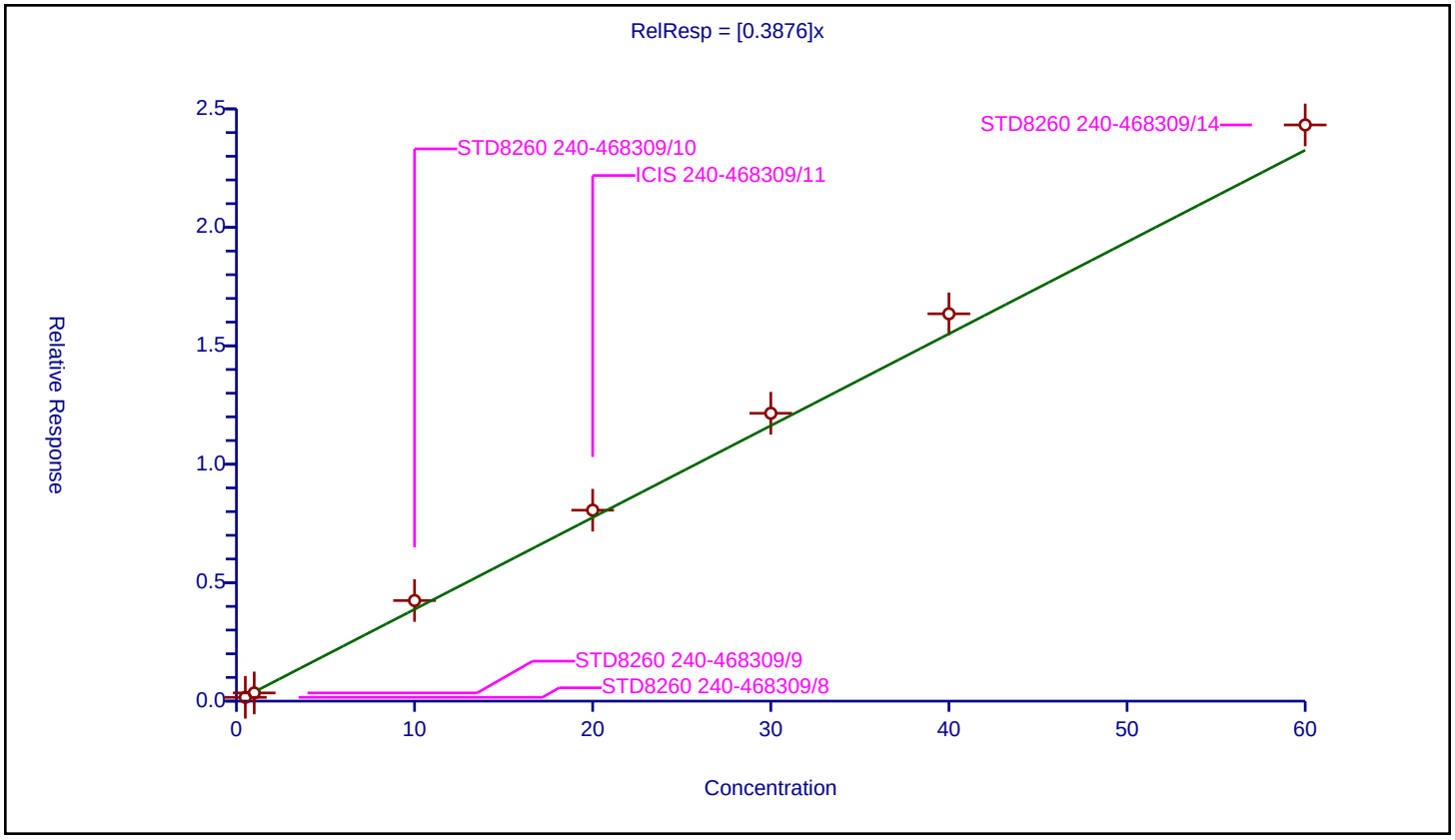
Curve Coefficients

Intercept:	0
Slope:	0.3876

Error Coefficients

Standard Error:	796000
Relative Standard Error:	9.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.160269	20.0	1001319.0	0.320537	Y
2	STD8260 240-468309/9	1.0	0.345871	20.0	993029.0	0.345871	Y
3	STD8260 240-468309/10	10.0	4.24655	20.0	1002946.0	0.424655	Y
4	ICIS 240-468309/11	20.0	8.060518	20.0	1096535.0	0.403026	Y
5	STD8260 240-468309/12	30.0	12.152003	20.0	1139450.0	0.405067	Y
6	STD8260 240-468309/13	40.0	16.350464	20.0	1193834.0	0.408762	Y
7	STD8260 240-468309/14	60.0	24.323733	20.0	1200768.0	0.405396	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

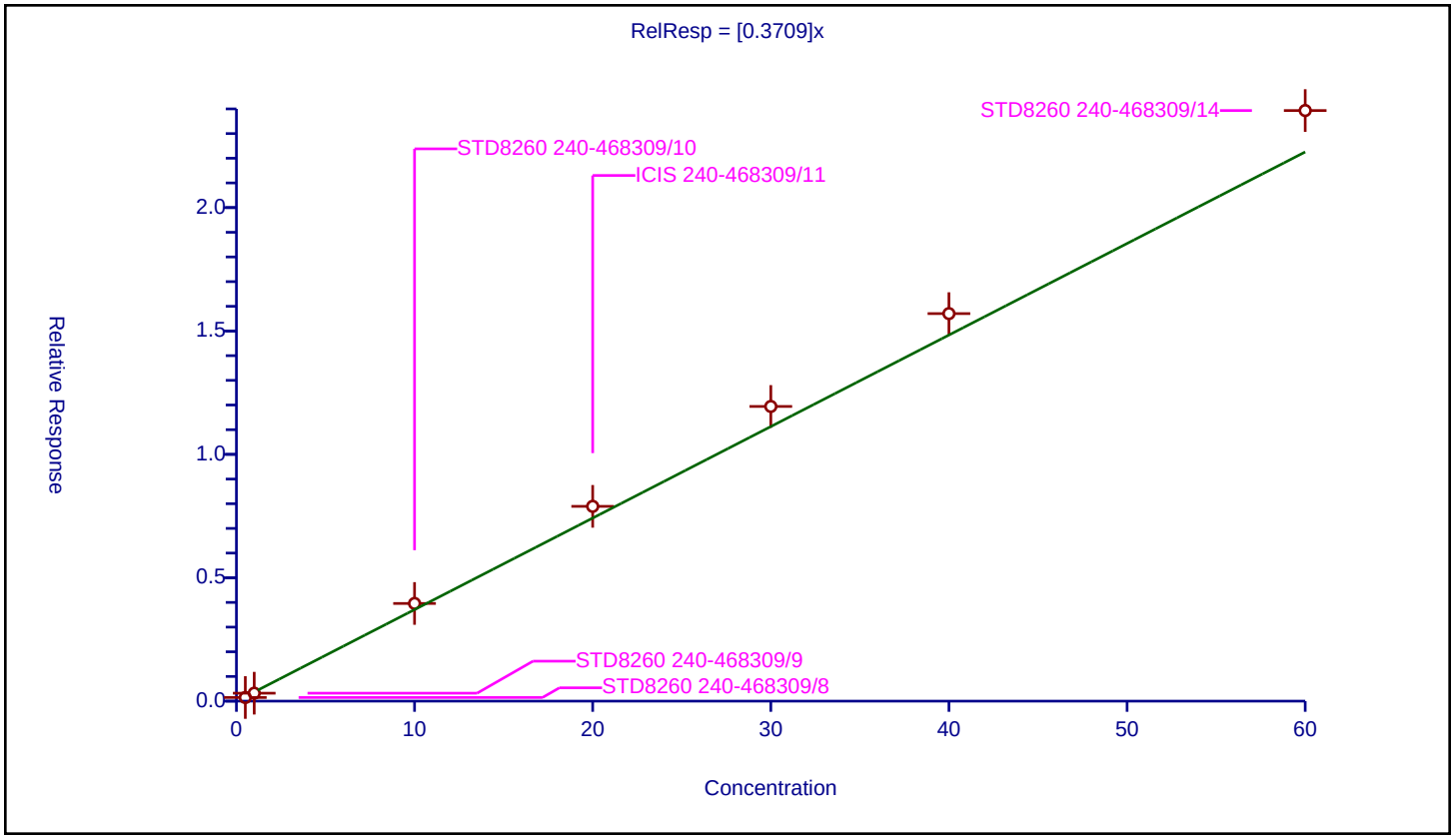
Curve Coefficients

Intercept:	0
Slope:	0.3709

Error Coefficients

Standard Error:	778000
Relative Standard Error:	11.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.147206	20.0	1001319.0	0.294412	Y
2	STD8260 240-468309/9	1.0	0.321904	20.0	993029.0	0.321904	Y
3	STD8260 240-468309/10	10.0	3.958299	20.0	1002946.0	0.39583	Y
4	ICIS 240-468309/11	20.0	7.893264	20.0	1096535.0	0.394663	Y
5	STD8260 240-468309/12	30.0	11.941568	20.0	1139450.0	0.398052	Y
6	STD8260 240-468309/13	40.0	15.704344	20.0	1193834.0	0.392609	Y
7	STD8260 240-468309/14	60.0	23.933599	20.0	1200768.0	0.398893	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

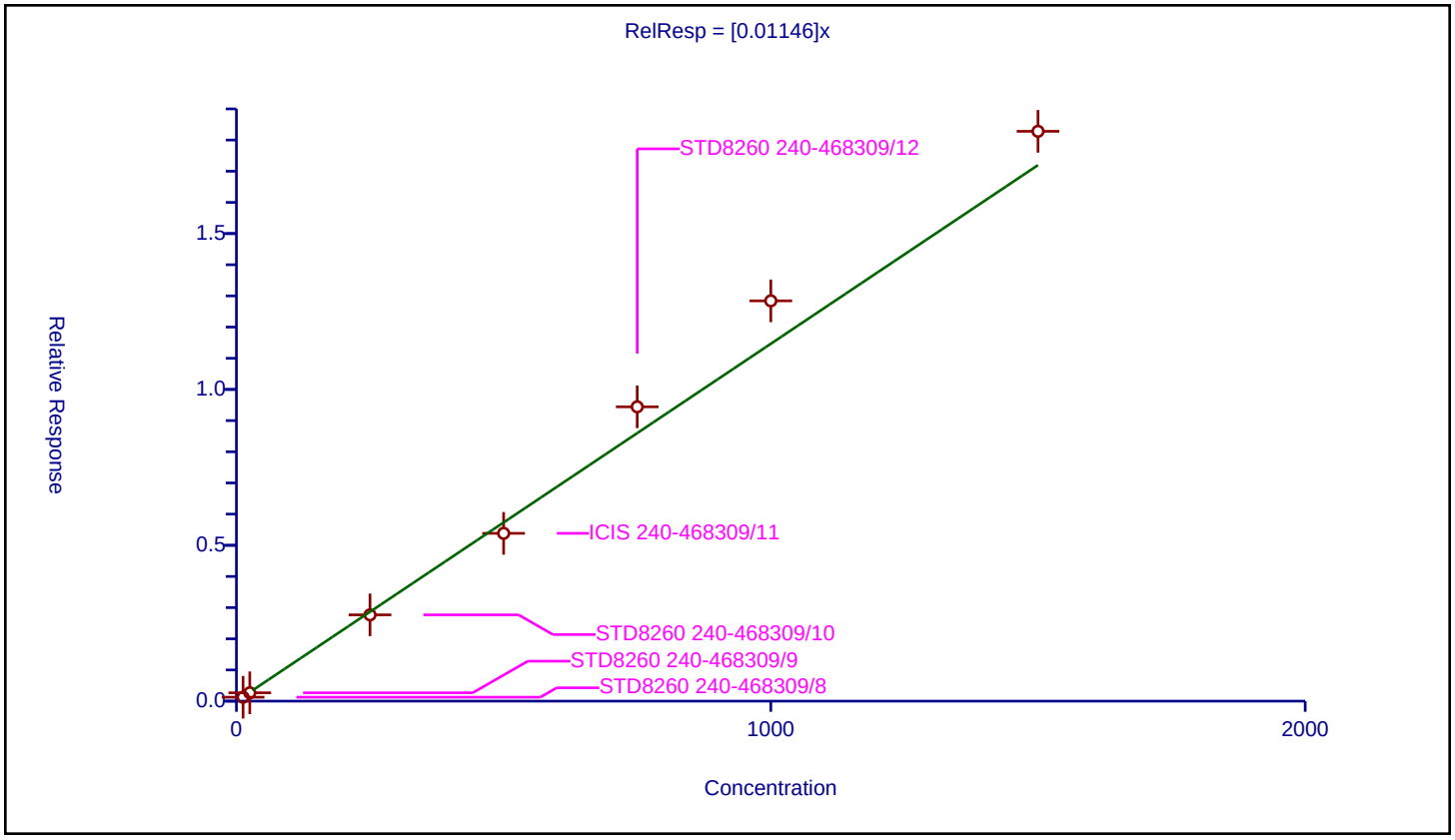
Curve Coefficients

Intercept:	0
Slope:	0.01146

Error Coefficients

Standard Error:	604000
Relative Standard Error:	9.3
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	12.5	0.126194	20.0	1001319.0	0.010095	Y
2	STD8260 240-468309/9	25.0	0.267485	20.0	993029.0	0.010699	Y
3	STD8260 240-468309/10	250.0	2.767647	20.0	1002946.0	0.011071	Y
4	ICIS 240-468309/11	500.0	5.383394	20.0	1096535.0	0.010767	Y
5	STD8260 240-468309/12	750.0	9.44231	20.0	1139450.0	0.01259	Y
6	STD8260 240-468309/13	1000.0	12.841769	20.0	1193834.0	0.012842	Y
7	STD8260 240-468309/14	1500.0	18.280617	20.0	1200768.0	0.012187	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

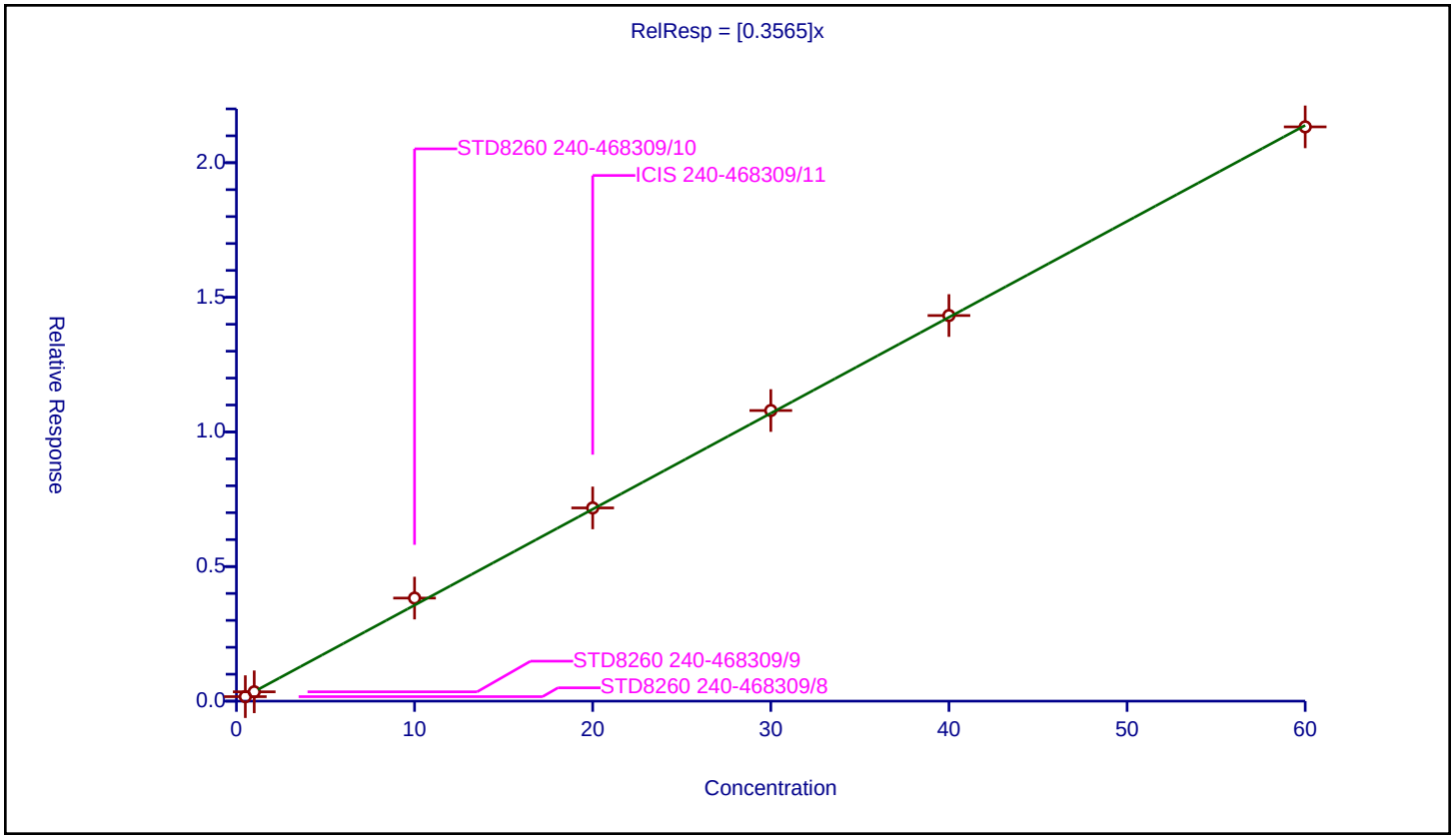
Curve Coefficients

Intercept:	0
Slope:	0.3565

Error Coefficients

Standard Error:	700000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.16664	20.0	1001319.0	0.33328	Y
2	STD8260 240-468309/9	1.0	0.346898	20.0	993029.0	0.346898	Y
3	STD8260 240-468309/10	10.0	3.828282	20.0	1002946.0	0.382828	Y
4	ICIS 240-468309/11	20.0	7.17688	20.0	1096535.0	0.358844	Y
5	STD8260 240-468309/12	30.0	10.795717	20.0	1139450.0	0.359857	Y
6	STD8260 240-468309/13	40.0	14.324437	20.0	1193834.0	0.358111	Y
7	STD8260 240-468309/14	60.0	21.331848	20.0	1200768.0	0.355531	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

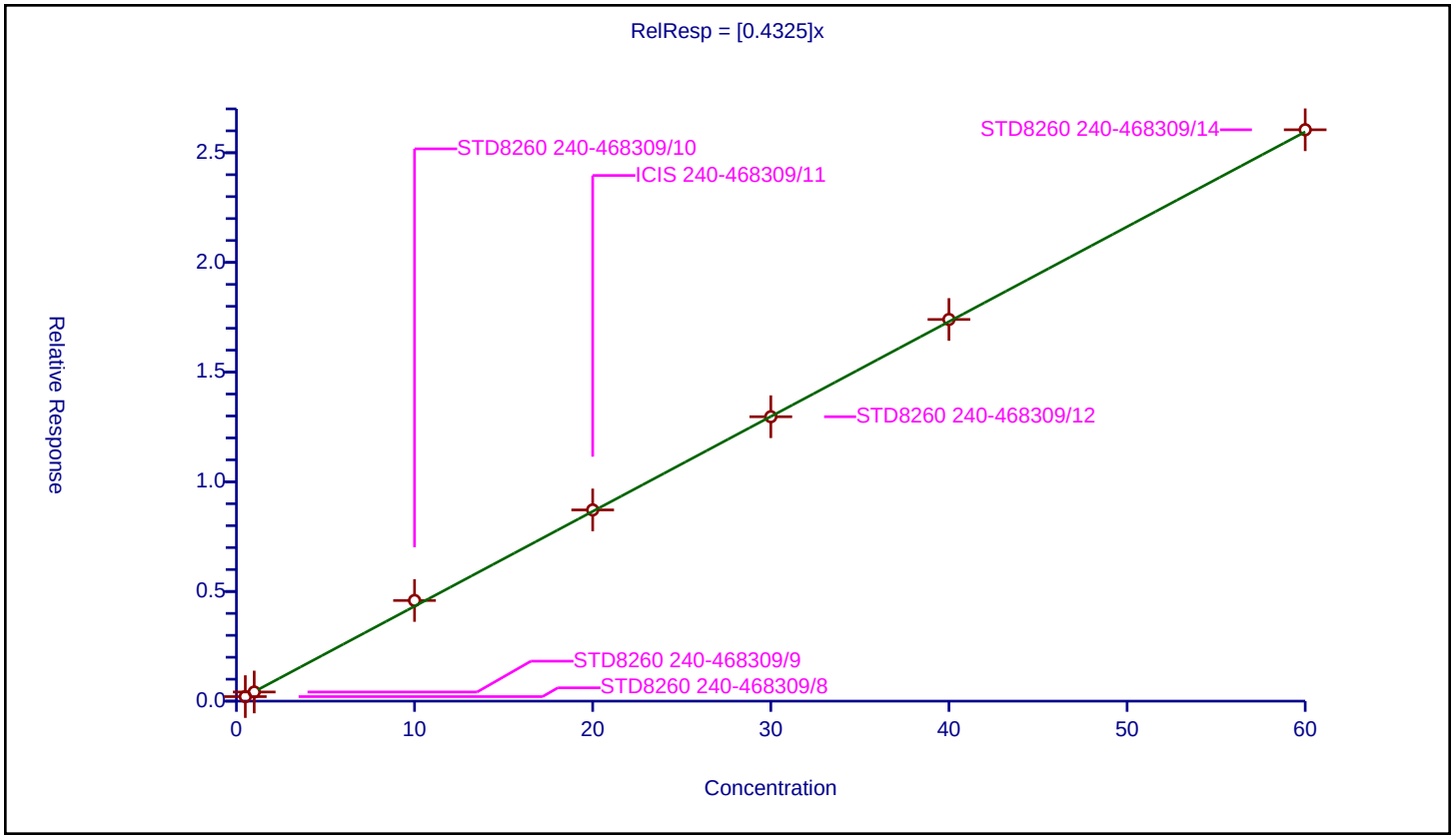
Curve Coefficients

Intercept:	0
Slope:	0.4325

Error Coefficients

Standard Error:	852000
Relative Standard Error:	3.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.207267	20.0	1001319.0	0.414533	Y
2	STD8260 240-468309/9	1.0	0.417168	20.0	993029.0	0.417168	Y
3	STD8260 240-468309/10	10.0	4.588881	20.0	1002946.0	0.458888	Y
4	ICIS 240-468309/11	20.0	8.717478	20.0	1096535.0	0.435874	Y
5	STD8260 240-468309/12	30.0	12.966624	20.0	1139450.0	0.432221	Y
6	STD8260 240-468309/13	40.0	17.400309	20.0	1193834.0	0.435008	Y
7	STD8260 240-468309/14	60.0	26.047996	20.0	1200768.0	0.434133	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

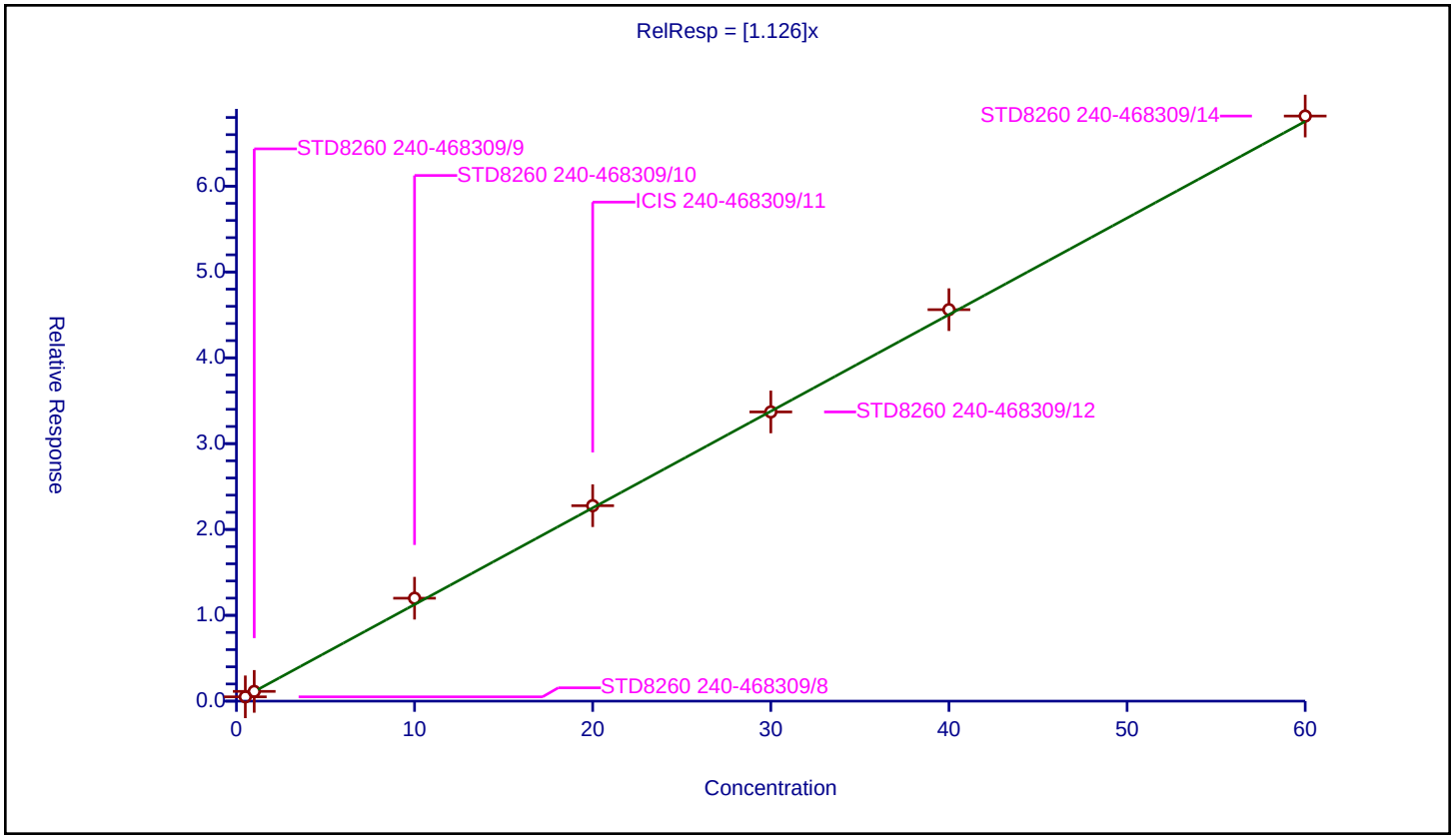
Curve Coefficients

Intercept:	0
Slope:	1.126

Error Coefficients

Standard Error:	2230000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.502497	20.0	1001319.0	1.004994	Y
2	STD8260 240-468309/9	1.0	1.138134	20.0	993029.0	1.138134	Y
3	STD8260 240-468309/10	10.0	11.990057	20.0	1002946.0	1.199006	Y
4	ICIS 240-468309/11	20.0	22.772716	20.0	1096535.0	1.138636	Y
5	STD8260 240-468309/12	30.0	33.694326	20.0	1139450.0	1.123144	Y
6	STD8260 240-468309/13	40.0	45.609624	20.0	1193834.0	1.140241	Y
7	STD8260 240-468309/14	60.0	68.169138	20.0	1200768.0	1.136152	Y



Calibration / n-Heptane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

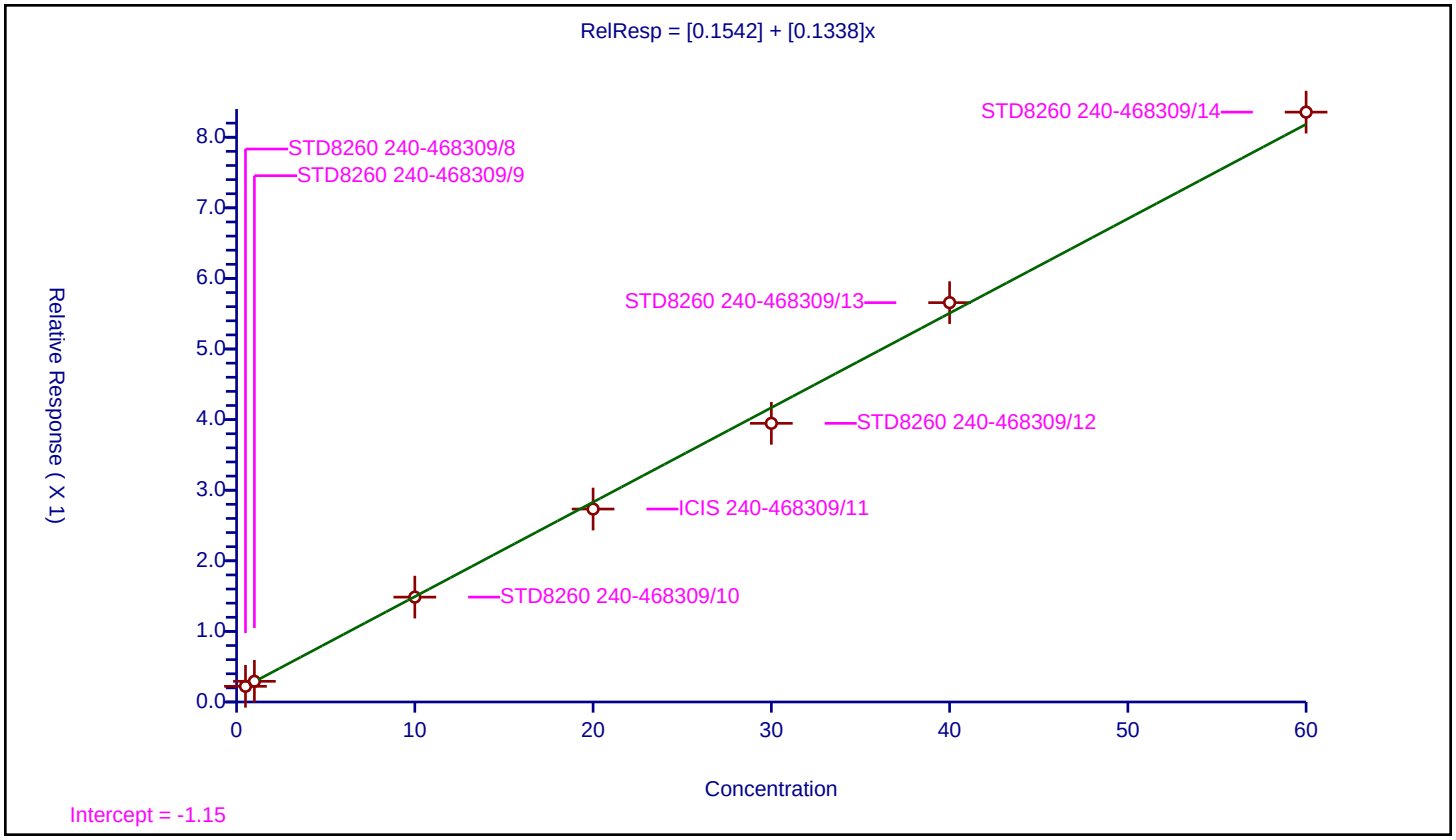
Curve Coefficients

Intercept:	0.1542
Slope:	0.1338

Error Coefficients

Standard Error:	298000
Relative Standard Error:	3.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.221947	20.0	1001319.0	0.443895	Y
2	STD8260 240-468309/9	1.0	0.292821	20.0	993029.0	0.292821	Y
3	STD8260 240-468309/10	10.0	1.485464	20.0	1002946.0	0.148546	Y
4	ICIS 240-468309/11	20.0	2.73321	20.0	1096535.0	0.13666	Y
5	STD8260 240-468309/12	30.0	3.947238	20.0	1139450.0	0.131575	Y
6	STD8260 240-468309/13	40.0	5.657286	20.0	1193834.0	0.141432	Y
7	STD8260 240-468309/14	60.0	8.355952	20.0	1200768.0	0.139266	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

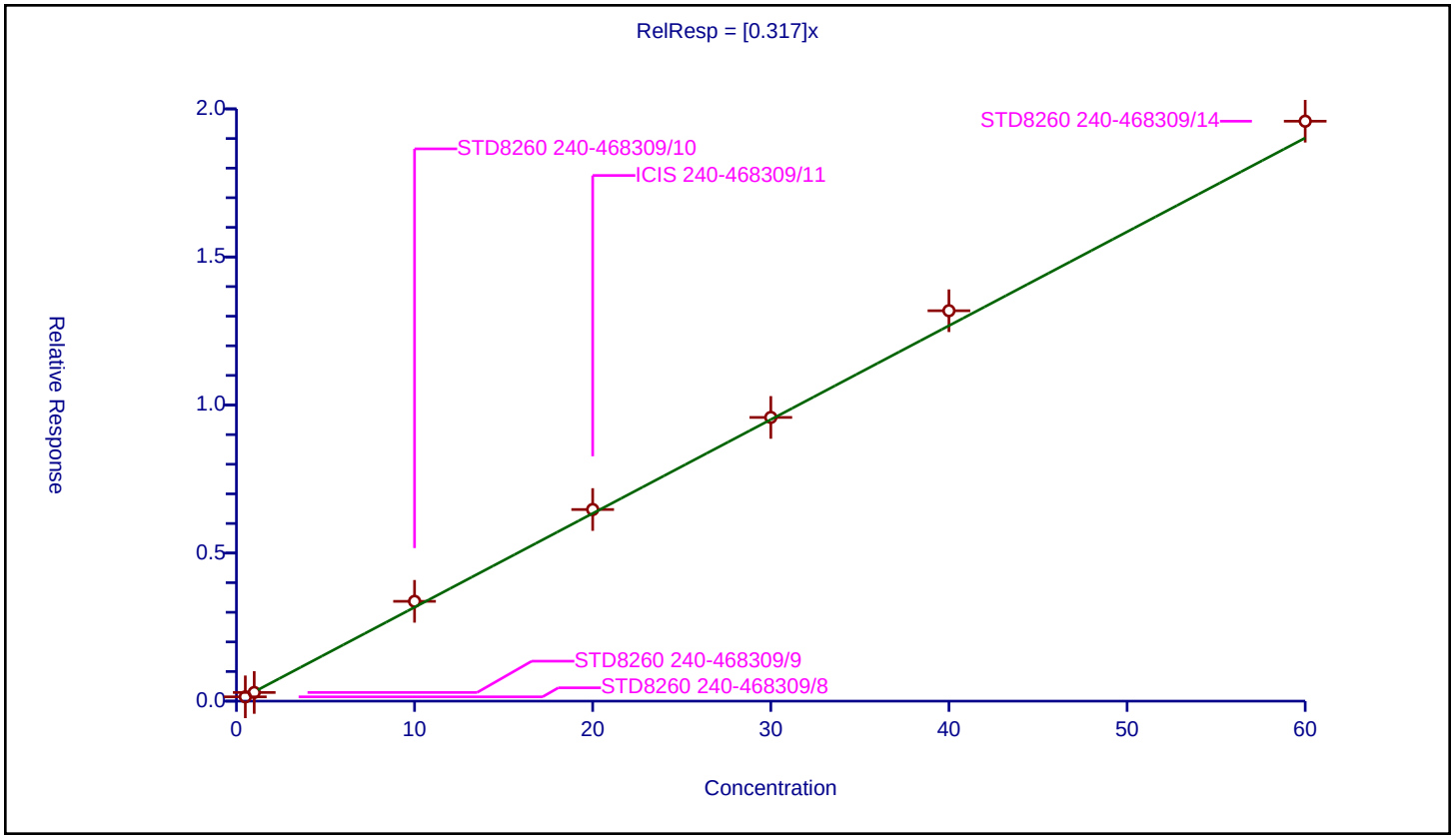
Curve Coefficients

Intercept:	0
Slope:	0.317

Error Coefficients

Standard Error:	640000
Relative Standard Error:	5.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.144949	20.0	1001319.0	0.289898	Y
2	STD8260 240-468309/9	1.0	0.292942	20.0	993029.0	0.292942	Y
3	STD8260 240-468309/10	10.0	3.370949	20.0	1002946.0	0.337095	Y
4	ICIS 240-468309/11	20.0	6.470473	20.0	1096535.0	0.323524	Y
5	STD8260 240-468309/12	30.0	9.581219	20.0	1139450.0	0.319374	Y
6	STD8260 240-468309/13	40.0	13.184396	20.0	1193834.0	0.32961	Y
7	STD8260 240-468309/14	60.0	19.584433	20.0	1200768.0	0.326407	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

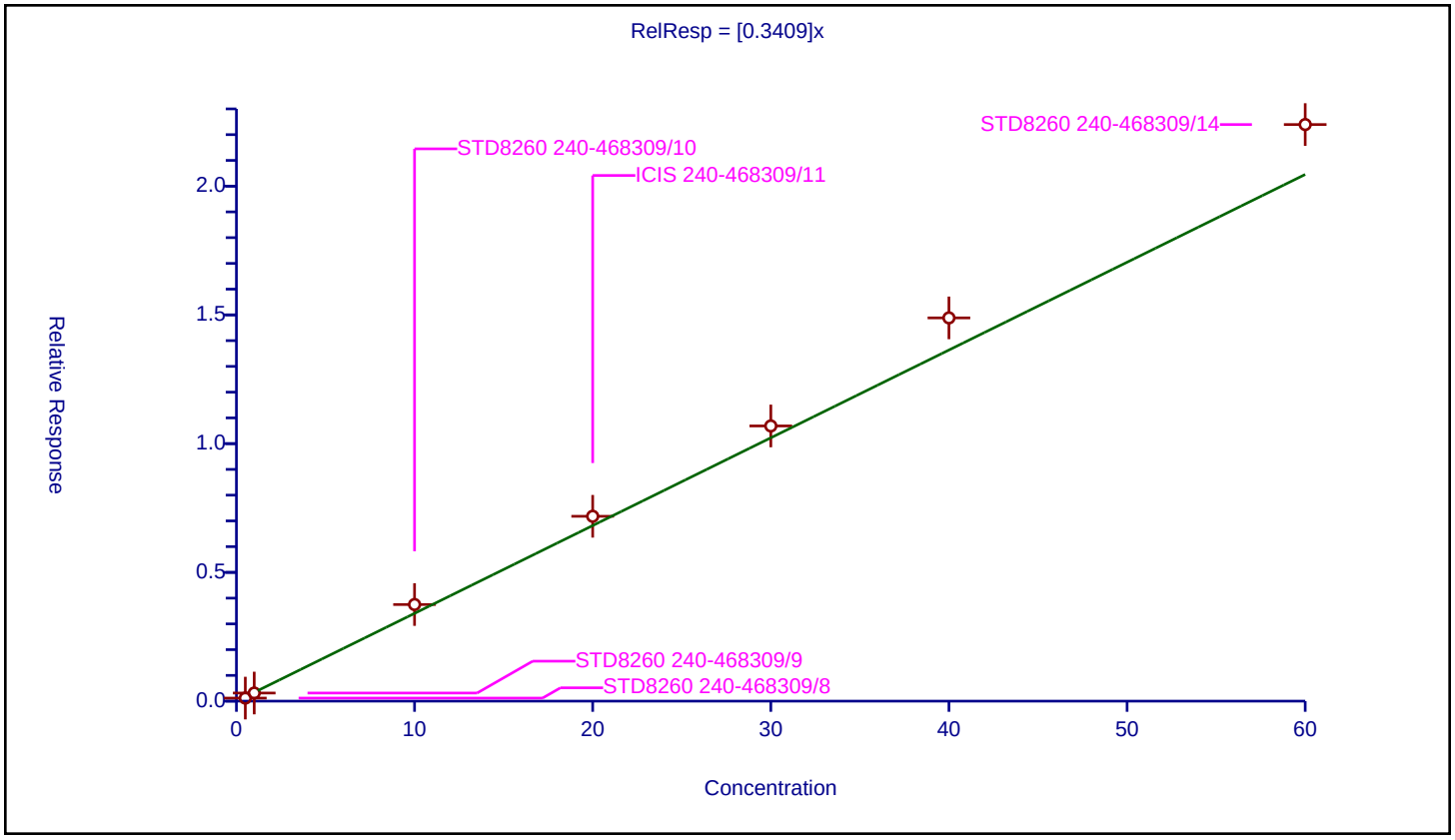
Curve Coefficients

Intercept:	0
Slope:	0.3409

Error Coefficients

Standard Error:	725000
Relative Standard Error:	14.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.118024	20.0	1001319.0	0.236049	Y
2	STD8260 240-468309/9	1.0	0.314472	20.0	993029.0	0.314472	Y
3	STD8260 240-468309/10	10.0	3.752326	20.0	1002946.0	0.375233	Y
4	ICIS 240-468309/11	20.0	7.179251	20.0	1096535.0	0.358963	Y
5	STD8260 240-468309/12	30.0	10.687086	20.0	1139450.0	0.356236	Y
6	STD8260 240-468309/13	40.0	14.883996	20.0	1193834.0	0.3721	Y
7	STD8260 240-468309/14	60.0	22.392069	20.0	1200768.0	0.373201	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

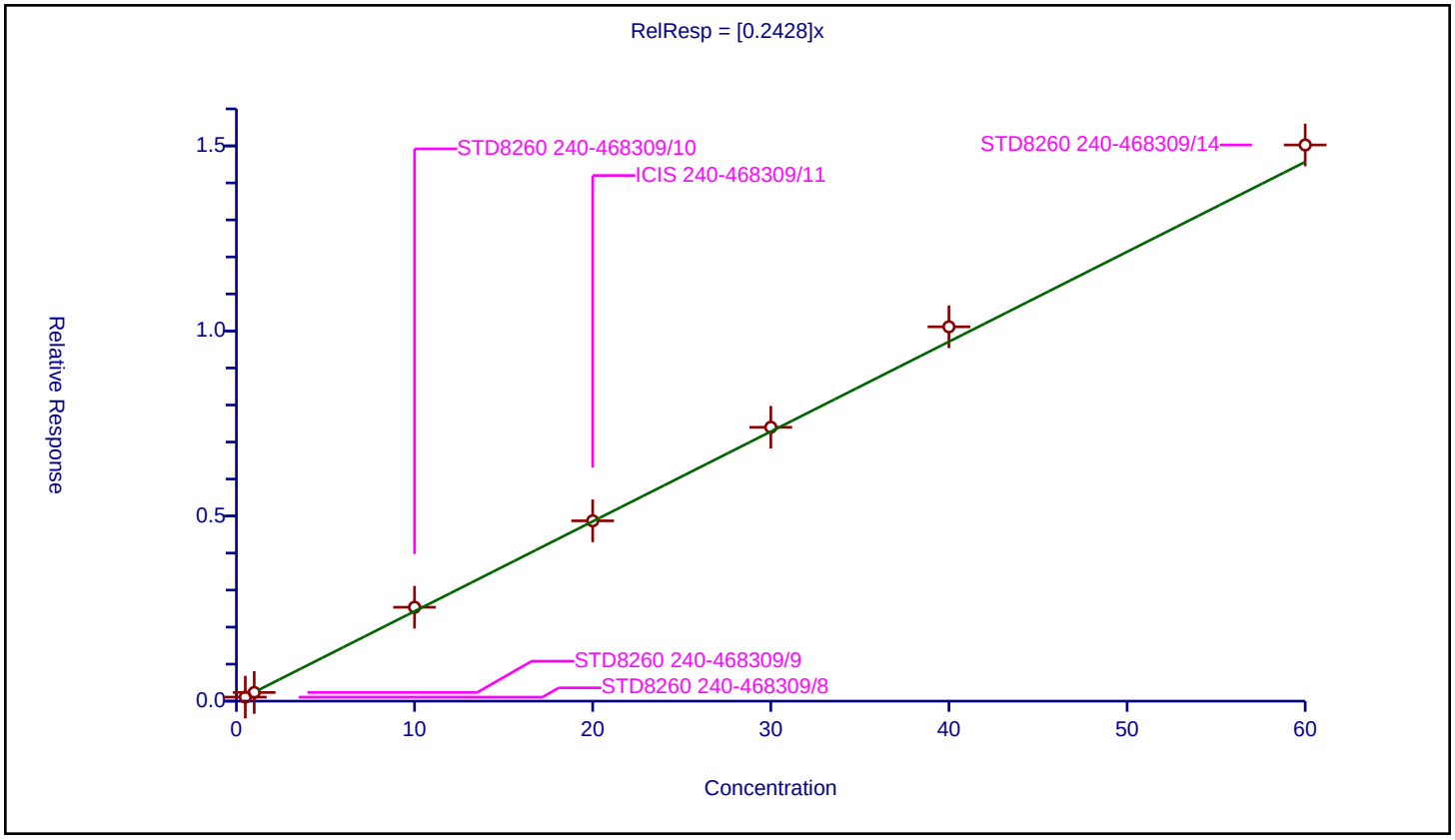
Curve Coefficients

Intercept:	0
Slope:	0.2428

Error Coefficients

Standard Error:	491000
Relative Standard Error:	5.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.108896	20.0	1001319.0	0.217793	Y
2	STD8260 240-468309/9	1.0	0.234555	20.0	993029.0	0.234555	Y
3	STD8260 240-468309/10	10.0	2.536667	20.0	1002946.0	0.253667	Y
4	ICIS 240-468309/11	20.0	4.871582	20.0	1096535.0	0.243579	Y
5	STD8260 240-468309/12	30.0	7.398534	20.0	1139450.0	0.246618	Y
6	STD8260 240-468309/13	40.0	10.113801	20.0	1193834.0	0.252845	Y
7	STD8260 240-468309/14	60.0	15.02555	20.0	1200768.0	0.250426	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

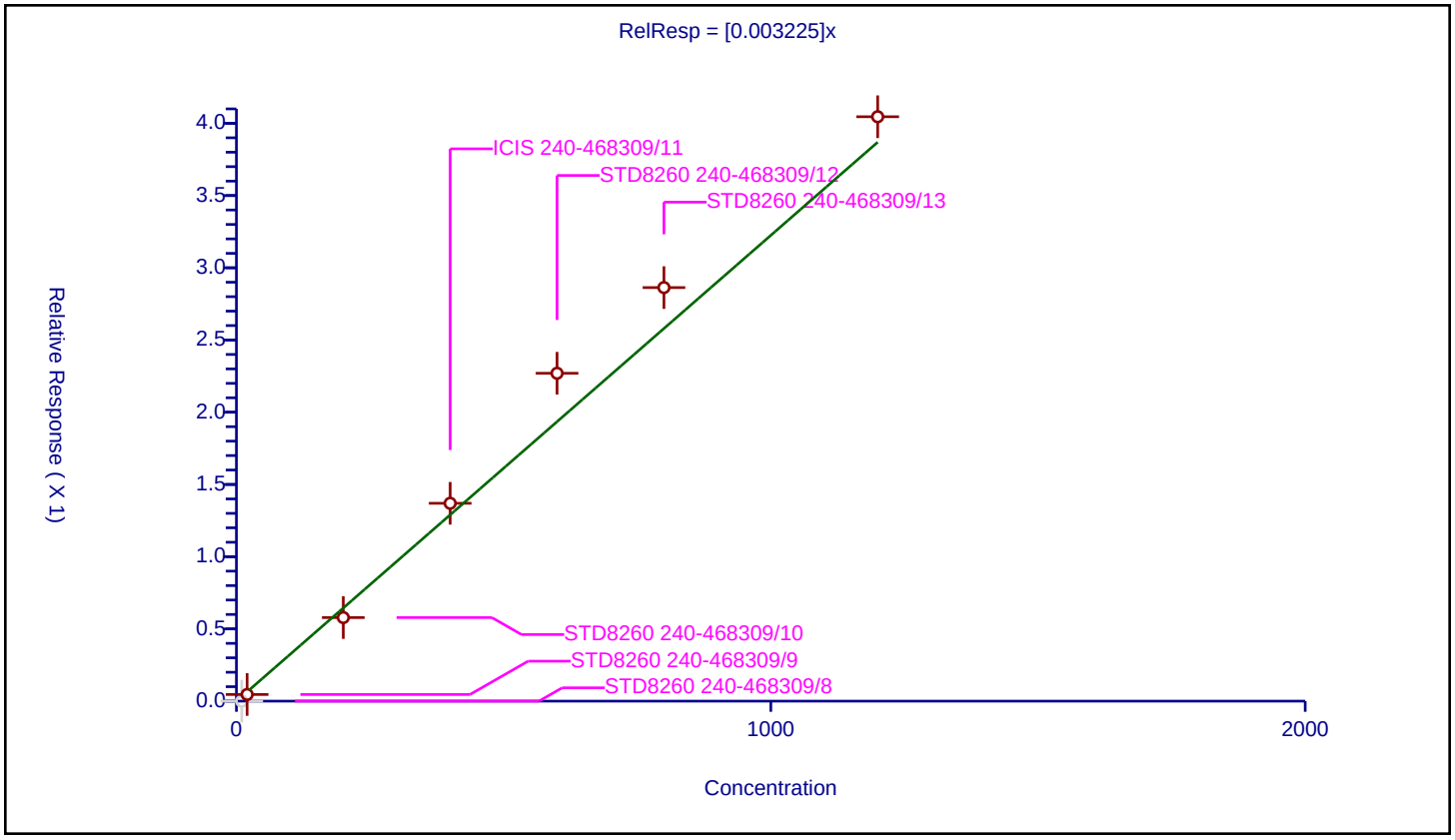
Curve Coefficients

Intercept:	0
Slope:	0.003225

Error Coefficients

Standard Error:	149000
Relative Standard Error:	16.8
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	10.0	0.0	20.0	1001319.0	0.0	N
2	STD8260 240-468309/9	20.0	0.04596	20.0	993029.0	0.002298	Y
3	STD8260 240-468309/10	200.0	0.578476	20.0	1002946.0	0.002892	Y
4	ICIS 240-468309/11	400.0	1.369642	20.0	1096535.0	0.003424	Y
5	STD8260 240-468309/12	600.0	2.269814	20.0	1139450.0	0.003783	Y
6	STD8260 240-468309/13	800.0	2.863045	20.0	1193834.0	0.003579	Y
7	STD8260 240-468309/14	1200.0	4.045528	20.0	1200768.0	0.003371	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

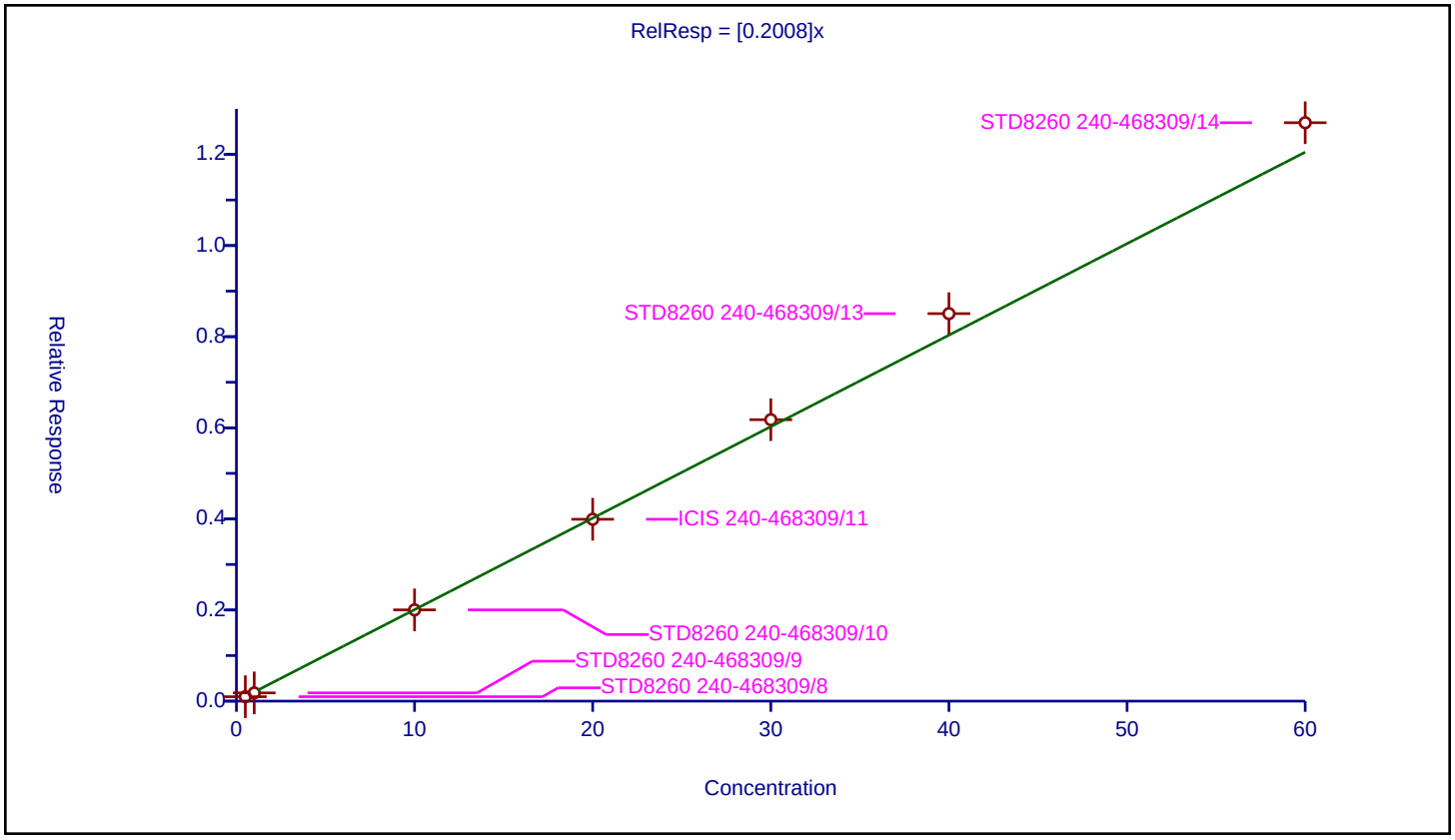
Curve Coefficients

Intercept:	0
Slope:	0.2008

Error Coefficients

Standard Error:	412000
Relative Standard Error:	5.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.097332	20.0	1001319.0	0.194663	Y
2	STD8260 240-468309/9	1.0	0.181102	20.0	993029.0	0.181102	Y
3	STD8260 240-468309/10	10.0	2.003318	20.0	1002946.0	0.200332	Y
4	ICIS 240-468309/11	20.0	3.992194	20.0	1096535.0	0.19961	Y
5	STD8260 240-468309/12	30.0	6.178016	20.0	1139450.0	0.205934	Y
6	STD8260 240-468309/13	40.0	8.50594	20.0	1193834.0	0.212648	Y
7	STD8260 240-468309/14	60.0	12.696857	20.0	1200768.0	0.211614	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

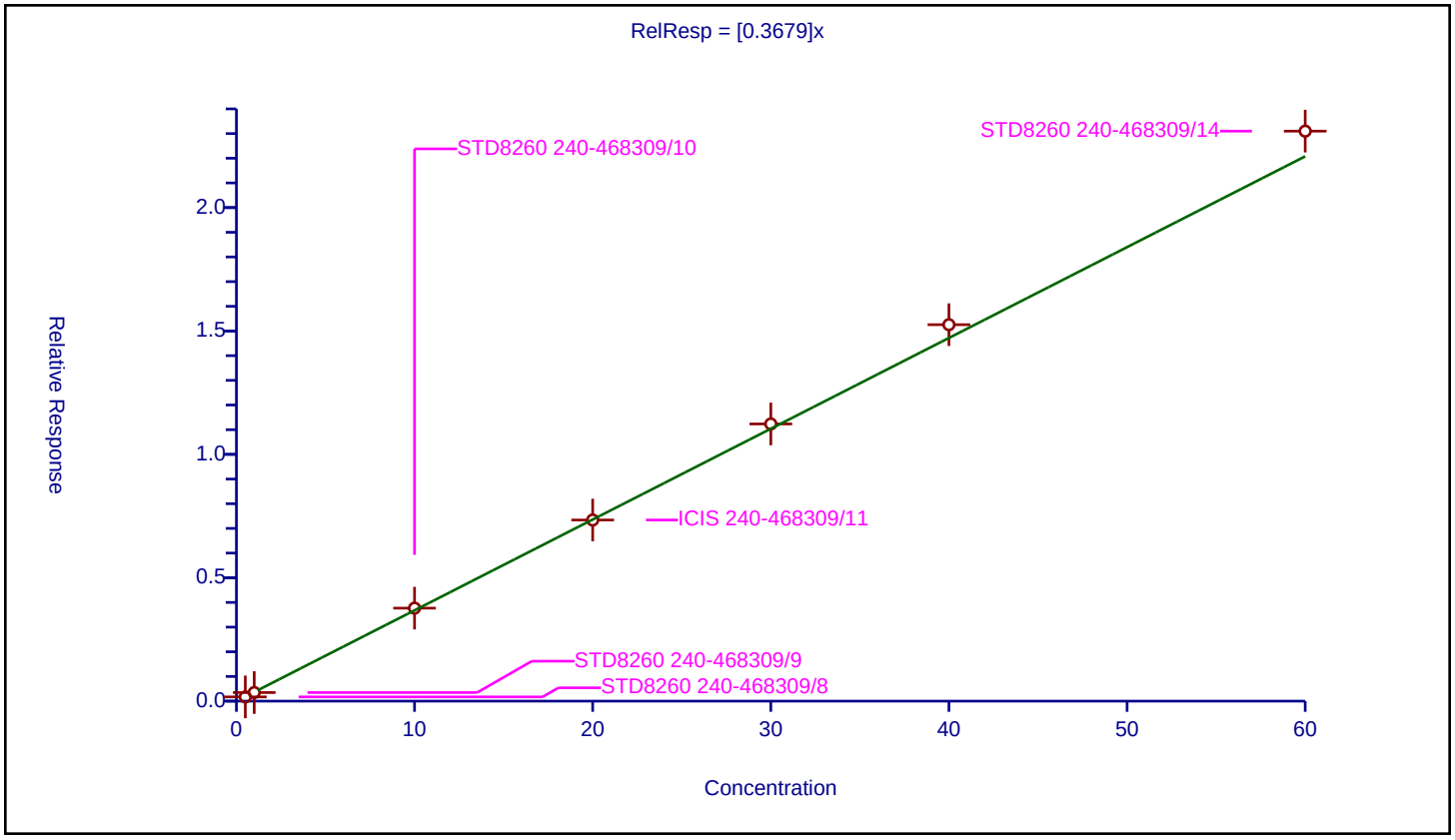
Curve Coefficients

Intercept:	0
Slope:	0.3679

Error Coefficients

Standard Error:	748000
Relative Standard Error:	4.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.171374	20.0	1001319.0	0.342748	Y
2	STD8260 240-468309/9	1.0	0.348288	20.0	993029.0	0.348288	Y
3	STD8260 240-468309/10	10.0	3.768279	20.0	1002946.0	0.376828	Y
4	ICIS 240-468309/11	20.0	7.340012	20.0	1096535.0	0.367001	Y
5	STD8260 240-468309/12	30.0	11.23284	20.0	1139450.0	0.374428	Y
6	STD8260 240-468309/13	40.0	15.254968	20.0	1193834.0	0.381374	Y
7	STD8260 240-468309/14	60.0	23.098933	20.0	1200768.0	0.384982	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

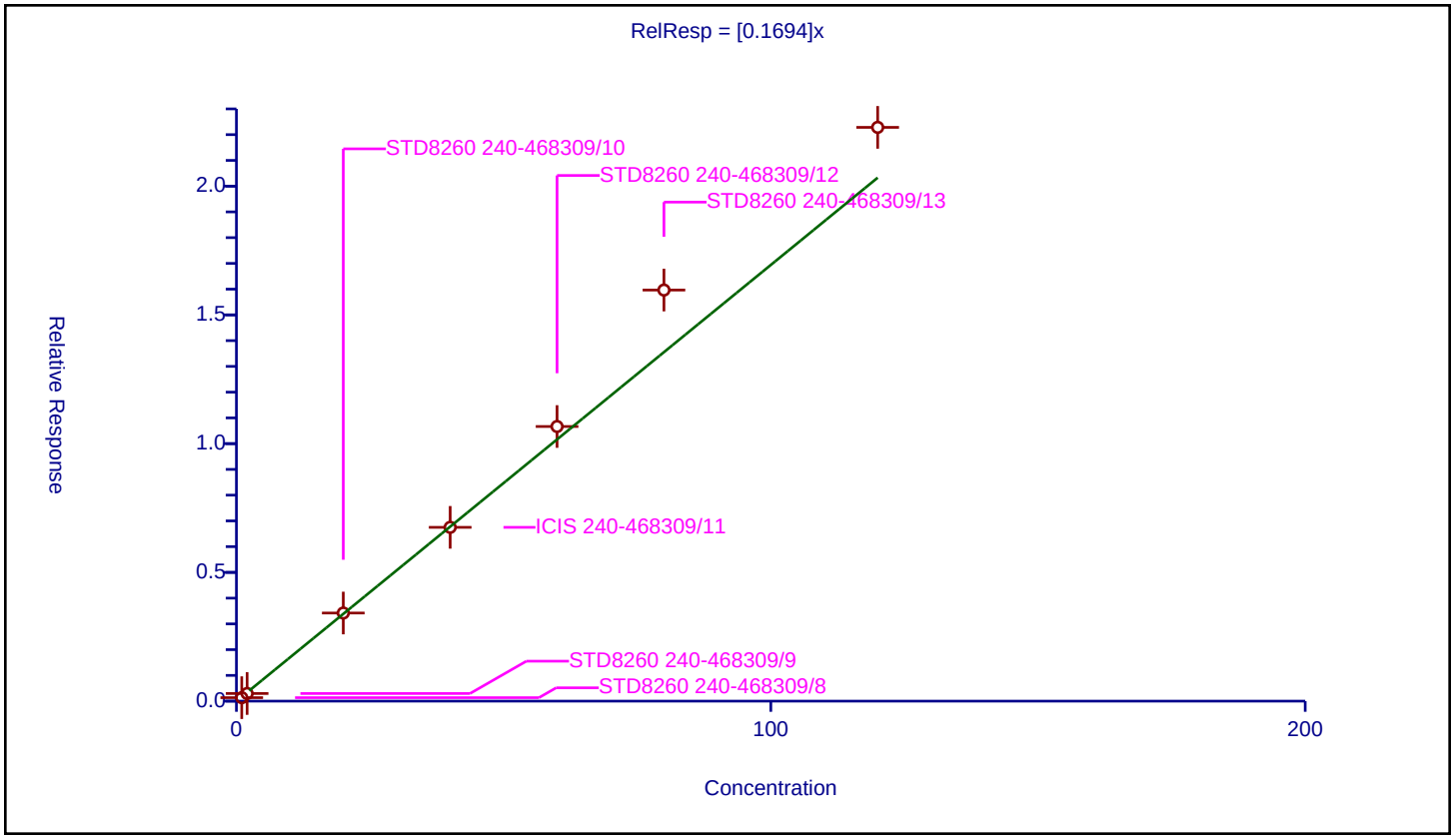
Curve Coefficients

Intercept:	0
Slope:	0.1694

Error Coefficients

Standard Error:	734000
Relative Standard Error:	13.0
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	1.0	0.134742	20.0	1001319.0	0.134742	Y
2	STD8260 240-468309/9	2.0	0.296467	20.0	993029.0	0.148233	Y
3	STD8260 240-468309/10	20.0	3.421819	20.0	1002946.0	0.171091	Y
4	ICIS 240-468309/11	40.0	6.749297	20.0	1096535.0	0.168732	Y
5	STD8260 240-468309/12	60.0	10.665742	20.0	1139450.0	0.177762	Y
6	STD8260 240-468309/13	80.0	15.964749	20.0	1193834.0	0.199559	Y
7	STD8260 240-468309/14	120.0	22.282556	20.0	1200768.0	0.185688	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

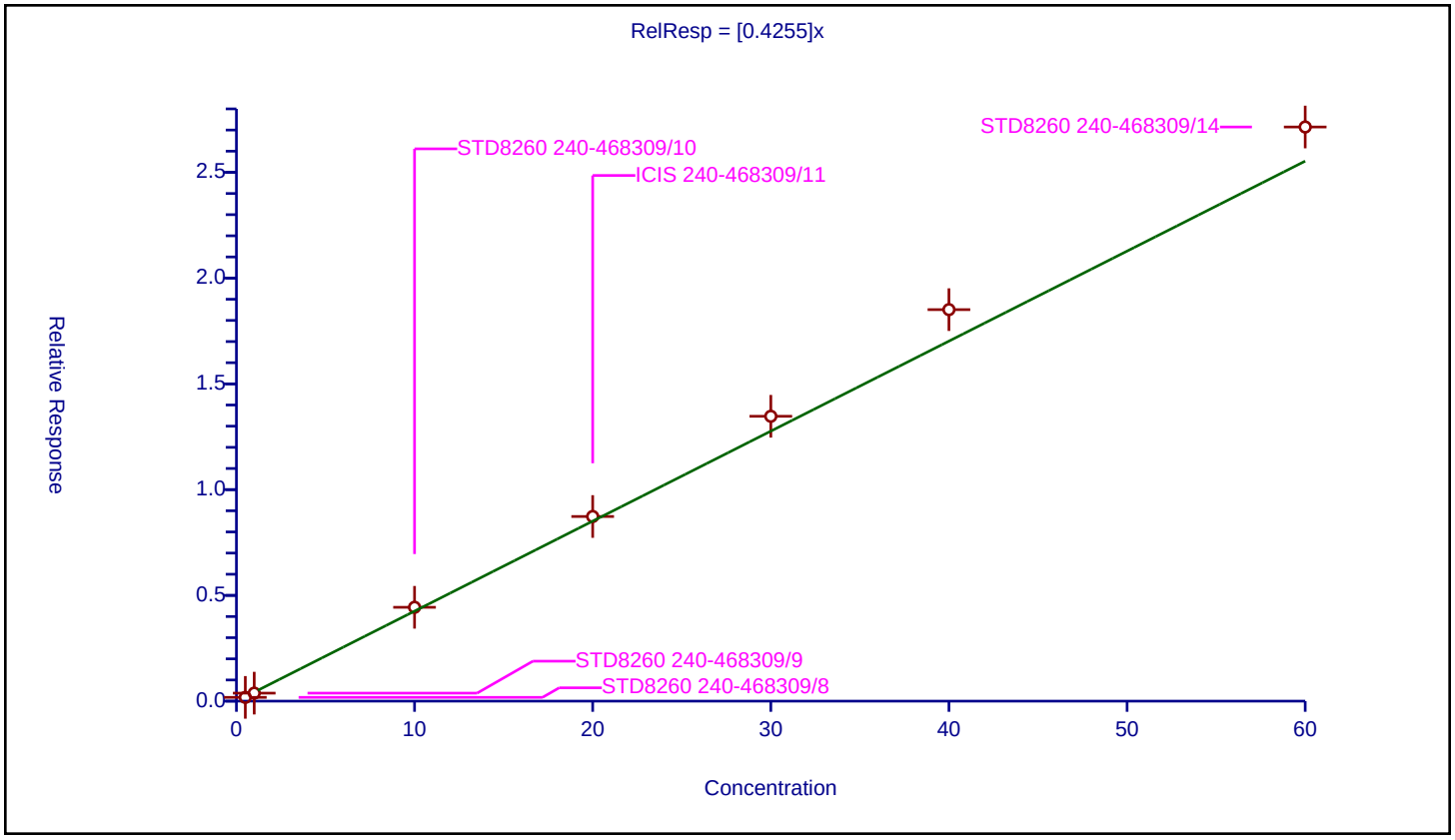
Curve Coefficients

Intercept:	0
Slope:	0.4255

Error Coefficients

Standard Error:	889000
Relative Standard Error:	9.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.178325	20.0	1001319.0	0.35665	Y
2	STD8260 240-468309/9	1.0	0.377773	20.0	993029.0	0.377773	Y
3	STD8260 240-468309/10	10.0	4.43657	20.0	1002946.0	0.443657	Y
4	ICIS 240-468309/11	20.0	8.729097	20.0	1096535.0	0.436455	Y
5	STD8260 240-468309/12	30.0	13.468182	20.0	1139450.0	0.448939	Y
6	STD8260 240-468309/13	40.0	18.50981	20.0	1193834.0	0.462745	Y
7	STD8260 240-468309/14	60.0	27.143911	20.0	1200768.0	0.452399	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

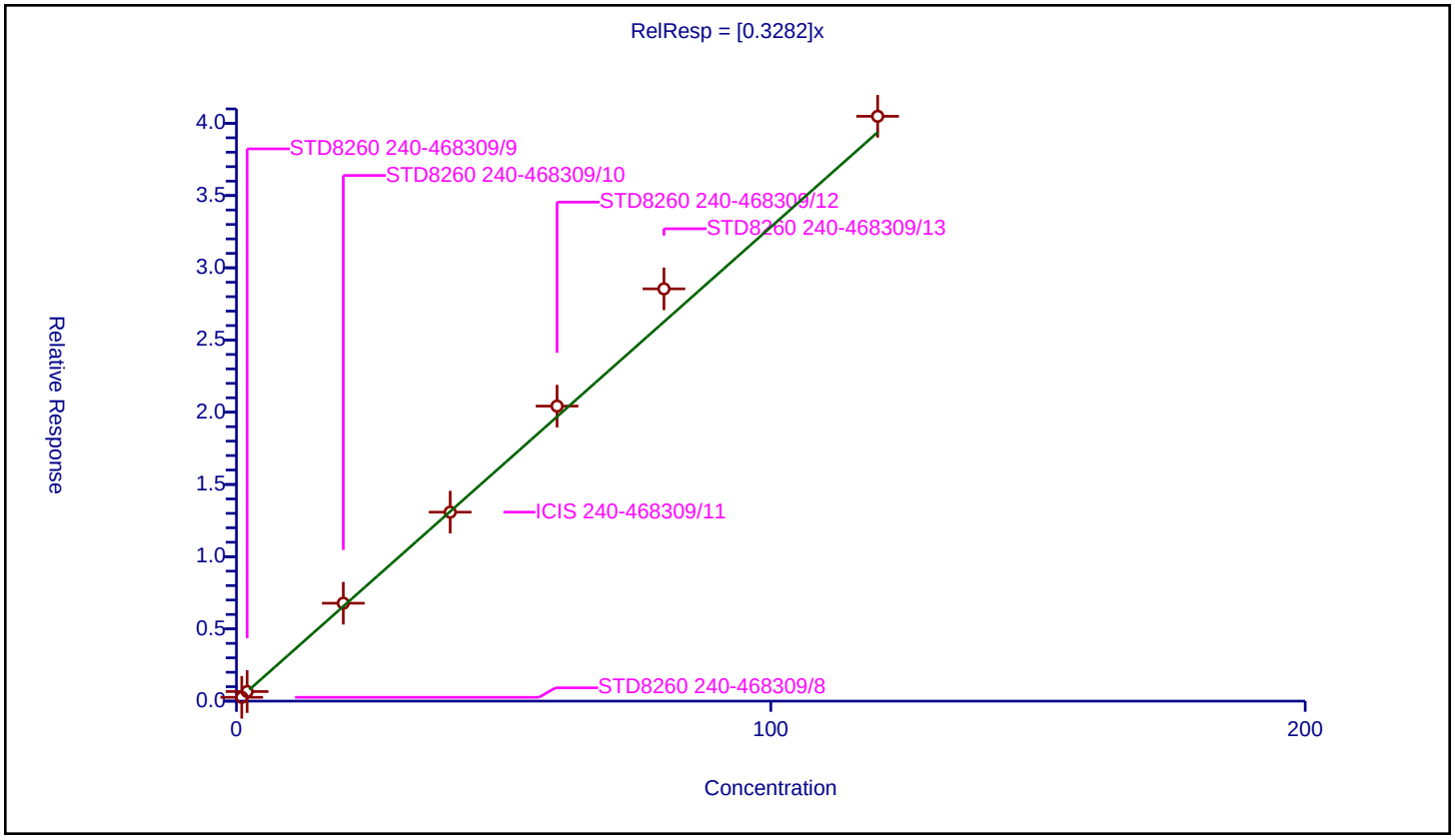
Curve Coefficients

Intercept:	0
Slope:	0.3282

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	9.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	1.0	0.264331	20.0	1001319.0	0.264331	Y
2	STD8260 240-468309/9	2.0	0.665056	20.0	993029.0	0.332528	Y
3	STD8260 240-468309/10	20.0	6.779647	20.0	1002946.0	0.338982	Y
4	ICIS 240-468309/11	40.0	13.082464	20.0	1096535.0	0.327062	Y
5	STD8260 240-468309/12	60.0	20.425188	20.0	1139450.0	0.34042	Y
6	STD8260 240-468309/13	80.0	28.544019	20.0	1193834.0	0.3568	Y
7	STD8260 240-468309/14	120.0	40.486838	20.0	1200768.0	0.33739	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

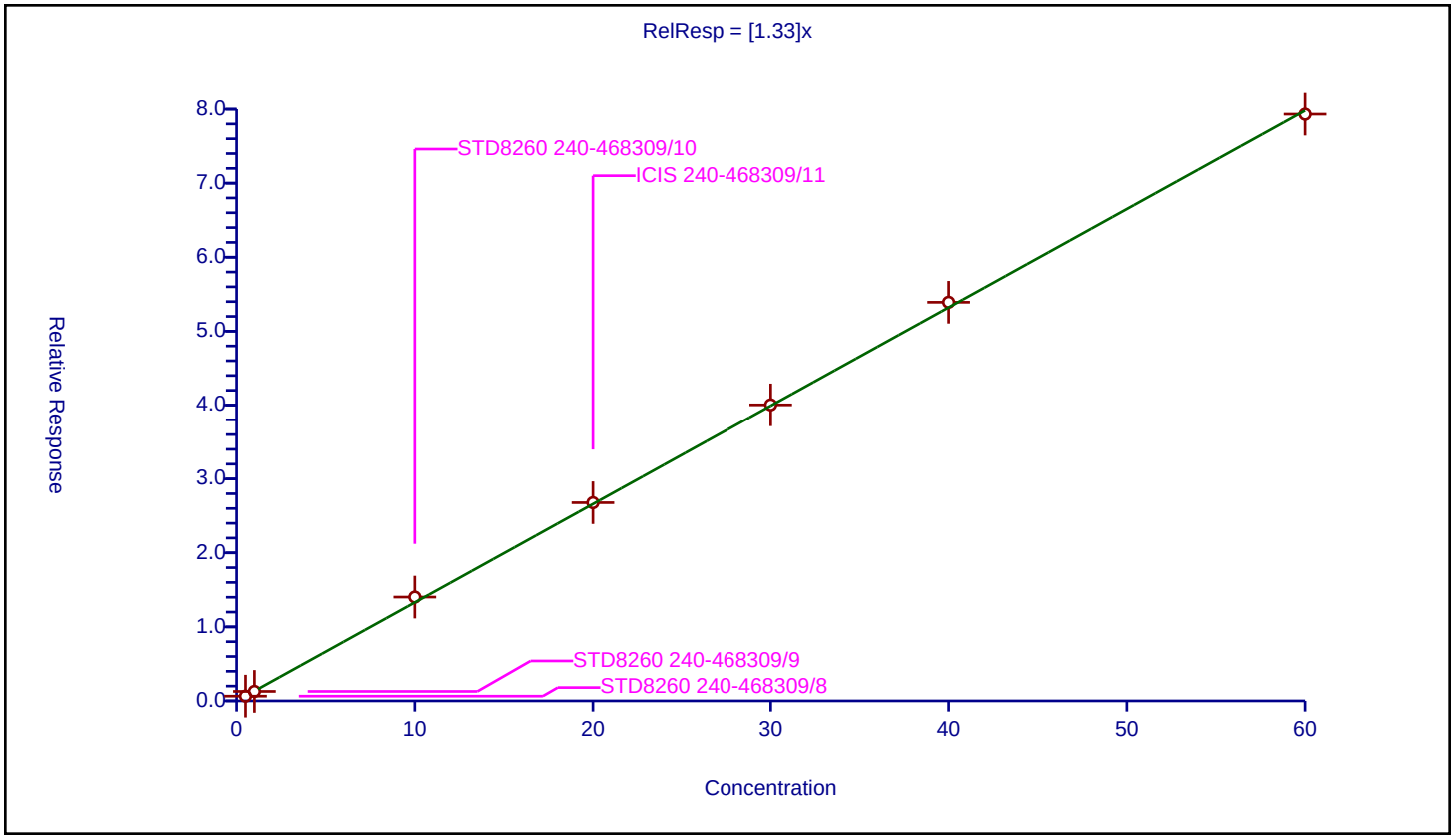
Curve Coefficients

Intercept:	0
Slope:	1.33

Error Coefficients

Standard Error:	2010000
Relative Standard Error:	3.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.641386	20.0	697084.0	1.282772	Y
2	STD8260 240-468309/9	1.0	1.282306	20.0	723743.0	1.282306	Y
3	STD8260 240-468309/10	10.0	14.026433	20.0	745049.0	1.402643	Y
4	ICIS 240-468309/11	20.0	26.788343	20.0	821576.0	1.339417	Y
5	STD8260 240-468309/12	30.0	40.030234	20.0	862602.0	1.334341	Y
6	STD8260 240-468309/13	40.0	53.912068	20.0	948069.0	1.347802	Y
7	STD8260 240-468309/14	60.0	79.325423	20.0	916989.0	1.32209	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

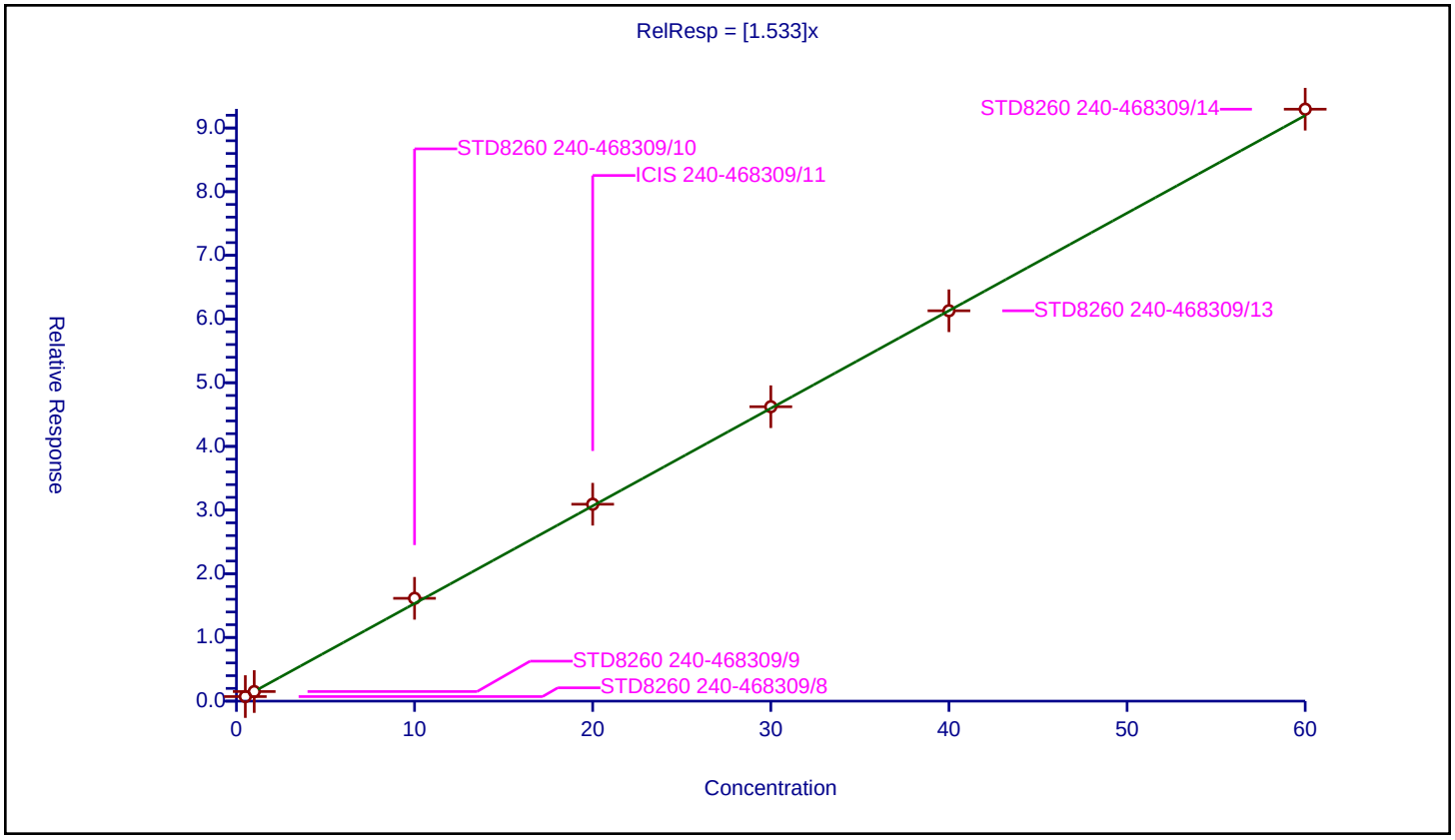
Curve Coefficients

Intercept:	0
Slope:	1.533

Error Coefficients

Standard Error:	2330000
Relative Standard Error:	3.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.71868	20.0	697084.0	1.437359	Y
2	STD8260 240-468309/9	1.0	1.508436	20.0	723743.0	1.508436	Y
3	STD8260 240-468309/10	10.0	16.14667	20.0	745049.0	1.614667	Y
4	ICIS 240-468309/11	20.0	30.92011	20.0	821576.0	1.546005	Y
5	STD8260 240-468309/12	30.0	46.235344	20.0	862602.0	1.541178	Y
6	STD8260 240-468309/13	40.0	61.303281	20.0	948069.0	1.532582	Y
7	STD8260 240-468309/14	60.0	92.952107	20.0	916989.0	1.549202	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

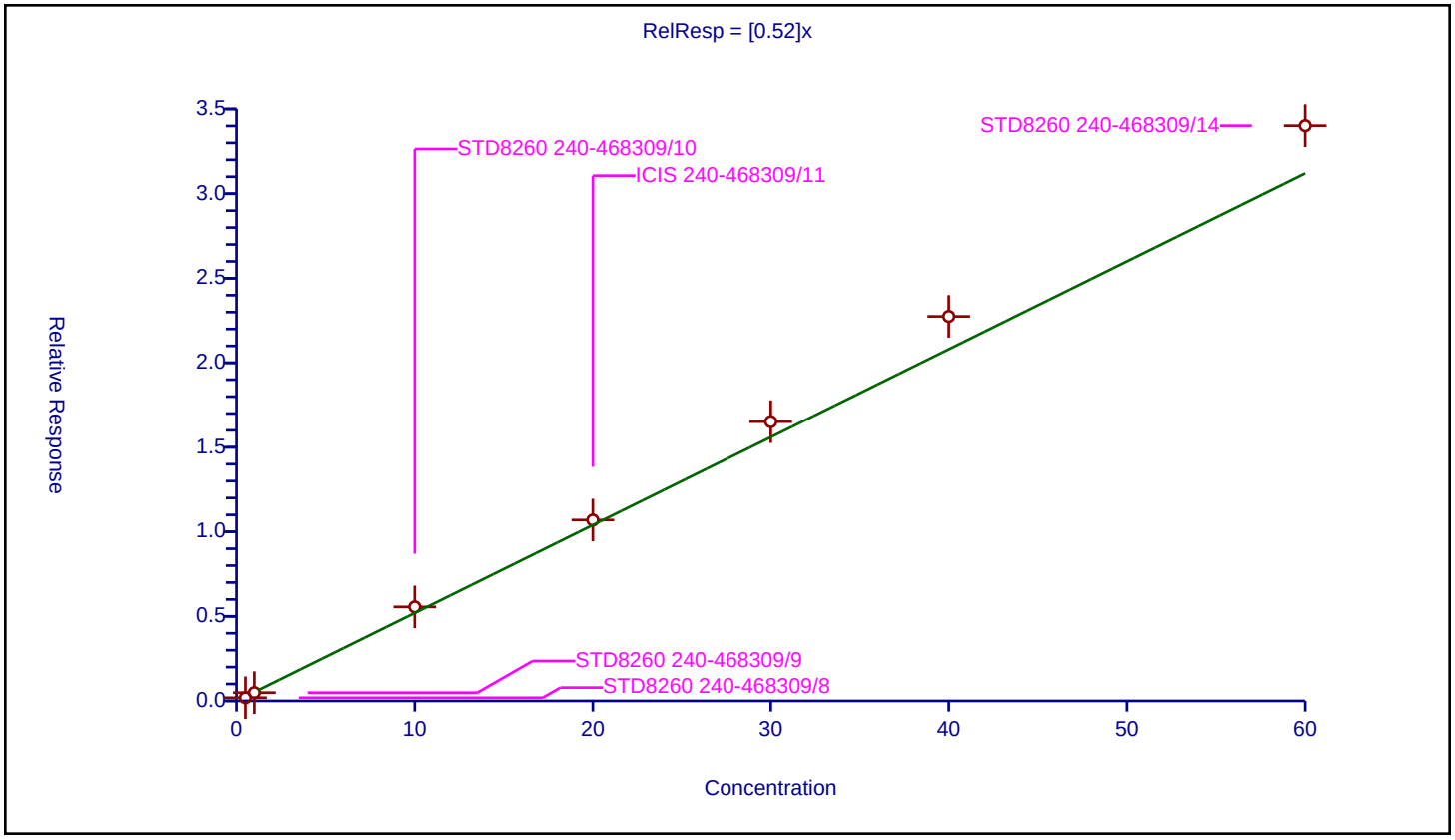
Curve Coefficients

Intercept:	0
Slope:	0.52

Error Coefficients

Standard Error:	850000
Relative Standard Error:	13.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.187639	20.0	697084.0	0.375278	Y
2	STD8260 240-468309/9	1.0	0.487825	20.0	723743.0	0.487825	Y
3	STD8260 240-468309/10	10.0	5.559312	20.0	745049.0	0.555931	Y
4	ICIS 240-468309/11	20.0	10.695614	20.0	821576.0	0.534781	Y
5	STD8260 240-468309/12	30.0	16.516748	20.0	862602.0	0.550558	Y
6	STD8260 240-468309/13	40.0	22.745454	20.0	948069.0	0.568636	Y
7	STD8260 240-468309/14	60.0	34.016678	20.0	916989.0	0.566945	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

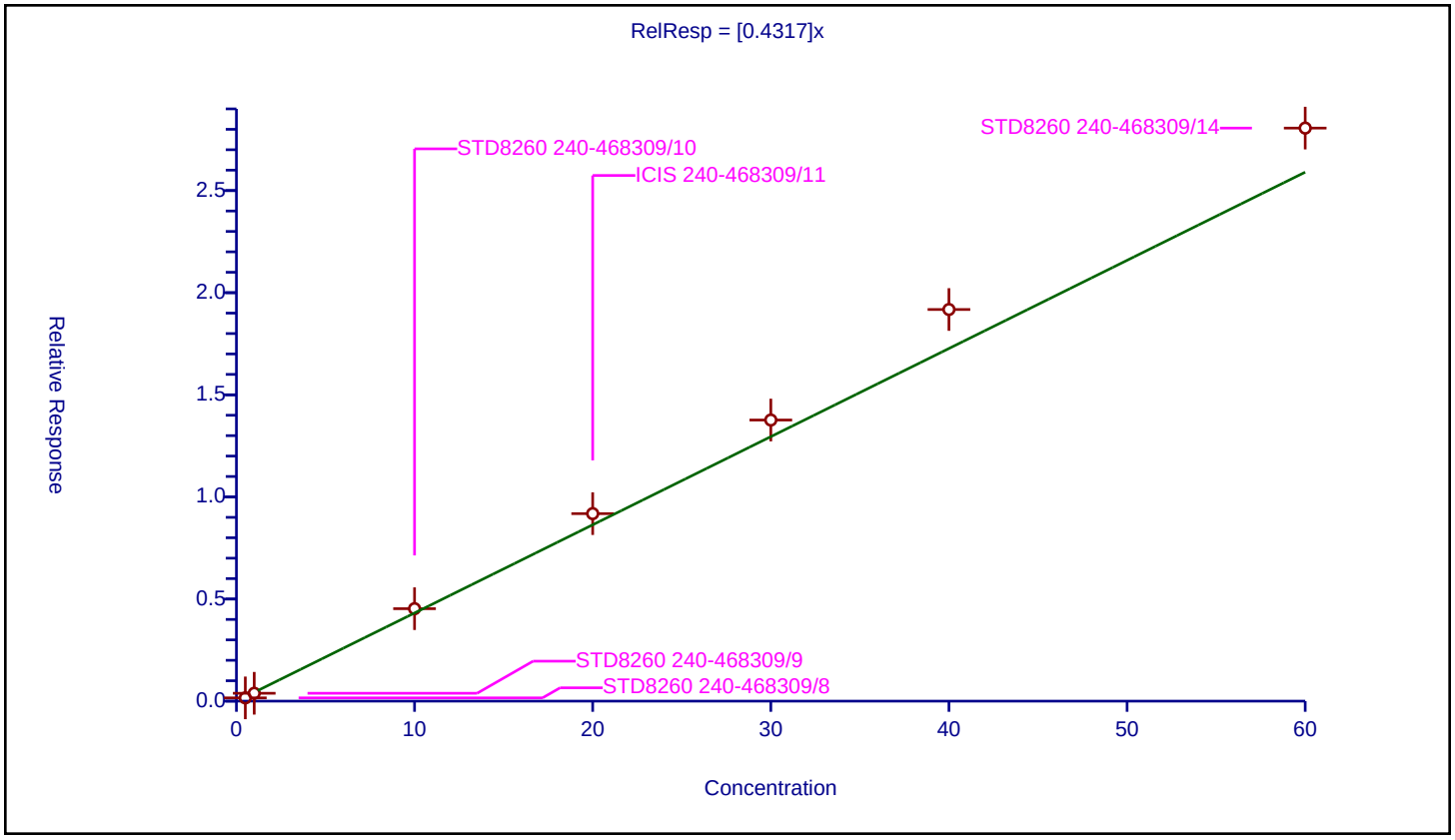
Curve Coefficients

Intercept:	0
Slope:	0.4317

Error Coefficients

Standard Error:	708000
Relative Standard Error:	13.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.159263	20.0	697084.0	0.318527	Y
2	STD8260 240-468309/9	1.0	0.385551	20.0	723743.0	0.385551	Y
3	STD8260 240-468309/10	10.0	4.52789	20.0	745049.0	0.452789	Y
4	ICIS 240-468309/11	20.0	9.181816	20.0	821576.0	0.459091	Y
5	STD8260 240-468309/12	30.0	13.764934	20.0	862602.0	0.458831	Y
6	STD8260 240-468309/13	40.0	19.17679	20.0	948069.0	0.47942	Y
7	STD8260 240-468309/14	60.0	28.059377	20.0	916989.0	0.467656	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

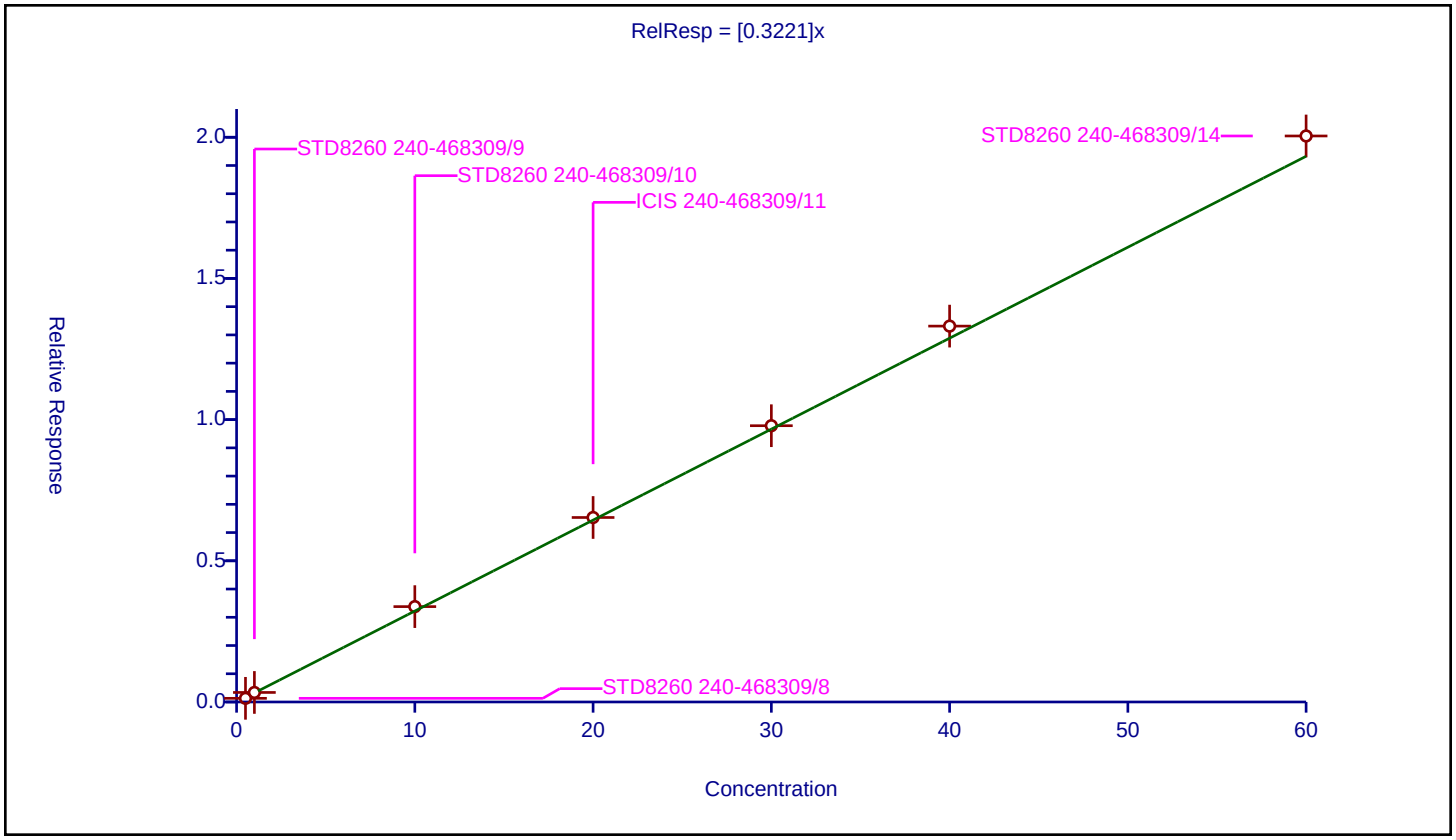
Curve Coefficients

Intercept:	0
Slope:	0.3221

Error Coefficients

Standard Error:	501000
Relative Standard Error:	8.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.129999	20.0	697084.0	0.259997	Y
2	STD8260 240-468309/9	1.0	0.337247	20.0	723743.0	0.337247	Y
3	STD8260 240-468309/10	10.0	3.377523	20.0	745049.0	0.337752	Y
4	ICIS 240-468309/11	20.0	6.533979	20.0	821576.0	0.326699	Y
5	STD8260 240-468309/12	30.0	9.784095	20.0	862602.0	0.326137	Y
6	STD8260 240-468309/13	40.0	13.311774	20.0	948069.0	0.332794	Y
7	STD8260 240-468309/14	60.0	20.045409	20.0	916989.0	0.33409	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

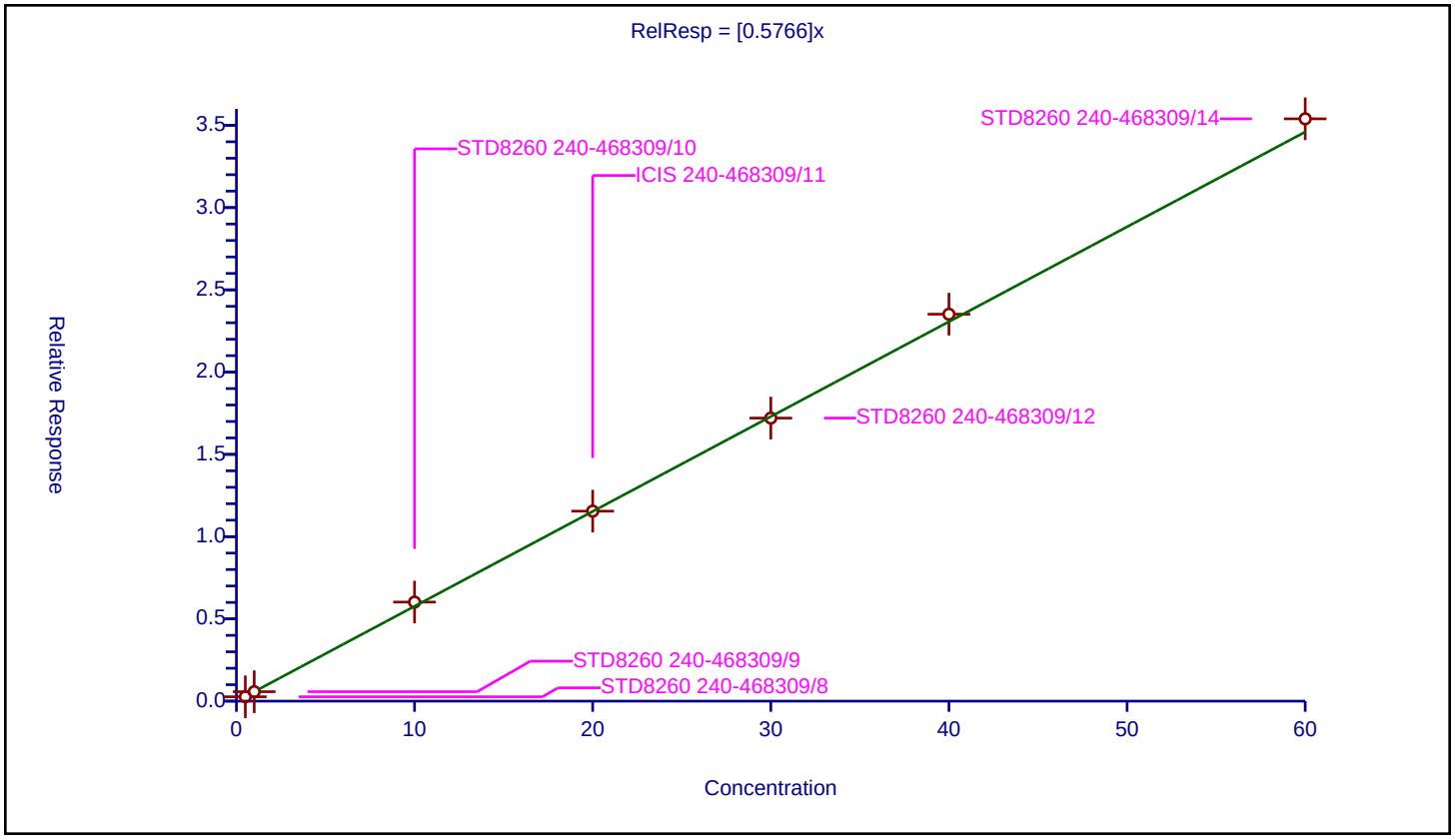
Curve Coefficients

Intercept:	0
Slope:	0.5766

Error Coefficients

Standard Error:	885000
Relative Standard Error:	3.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.265793	20.0	697084.0	0.531586	Y
2	STD8260 240-468309/9	1.0	0.573629	20.0	723743.0	0.573629	Y
3	STD8260 240-468309/10	10.0	6.022315	20.0	745049.0	0.602232	Y
4	ICIS 240-468309/11	20.0	11.54951	20.0	821576.0	0.577475	Y
5	STD8260 240-468309/12	30.0	17.205919	20.0	862602.0	0.573531	Y
6	STD8260 240-468309/13	40.0	23.520883	20.0	948069.0	0.588022	Y
7	STD8260 240-468309/14	60.0	35.396302	20.0	916989.0	0.589938	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

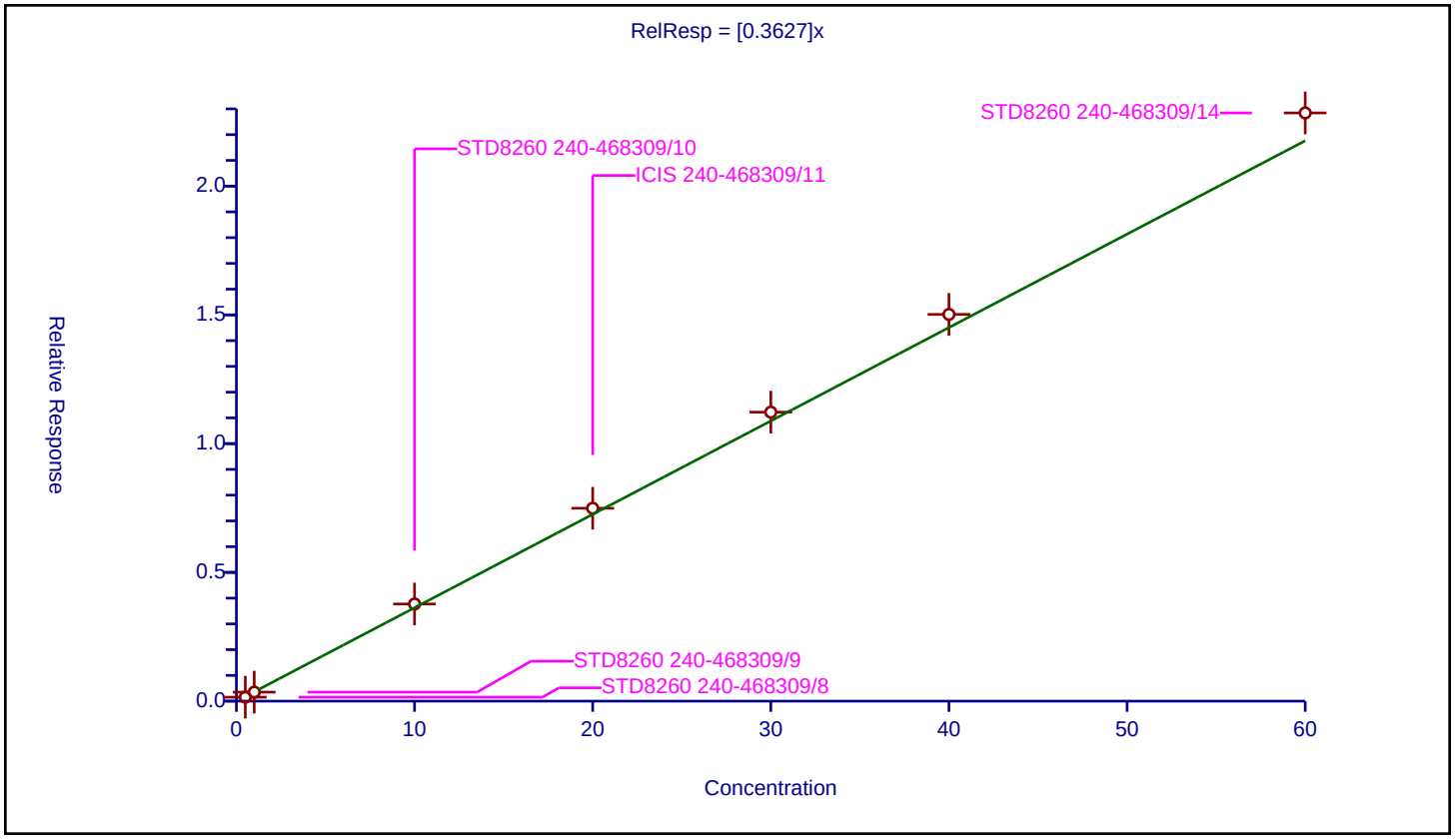
Curve Coefficients

Intercept:	0
Slope:	0.3627

Error Coefficients

Standard Error:	570000
Relative Standard Error:	7.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.15321	20.0	697084.0	0.306419	Y
2	STD8260 240-468309/9	1.0	0.350456	20.0	723743.0	0.350456	Y
3	STD8260 240-468309/10	10.0	3.773148	20.0	745049.0	0.377315	Y
4	ICIS 240-468309/11	20.0	7.49092	20.0	821576.0	0.374546	Y
5	STD8260 240-468309/12	30.0	11.222742	20.0	862602.0	0.374091	Y
6	STD8260 240-468309/13	40.0	15.018844	20.0	948069.0	0.375471	Y
7	STD8260 240-468309/14	60.0	22.843	20.0	916989.0	0.380717	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

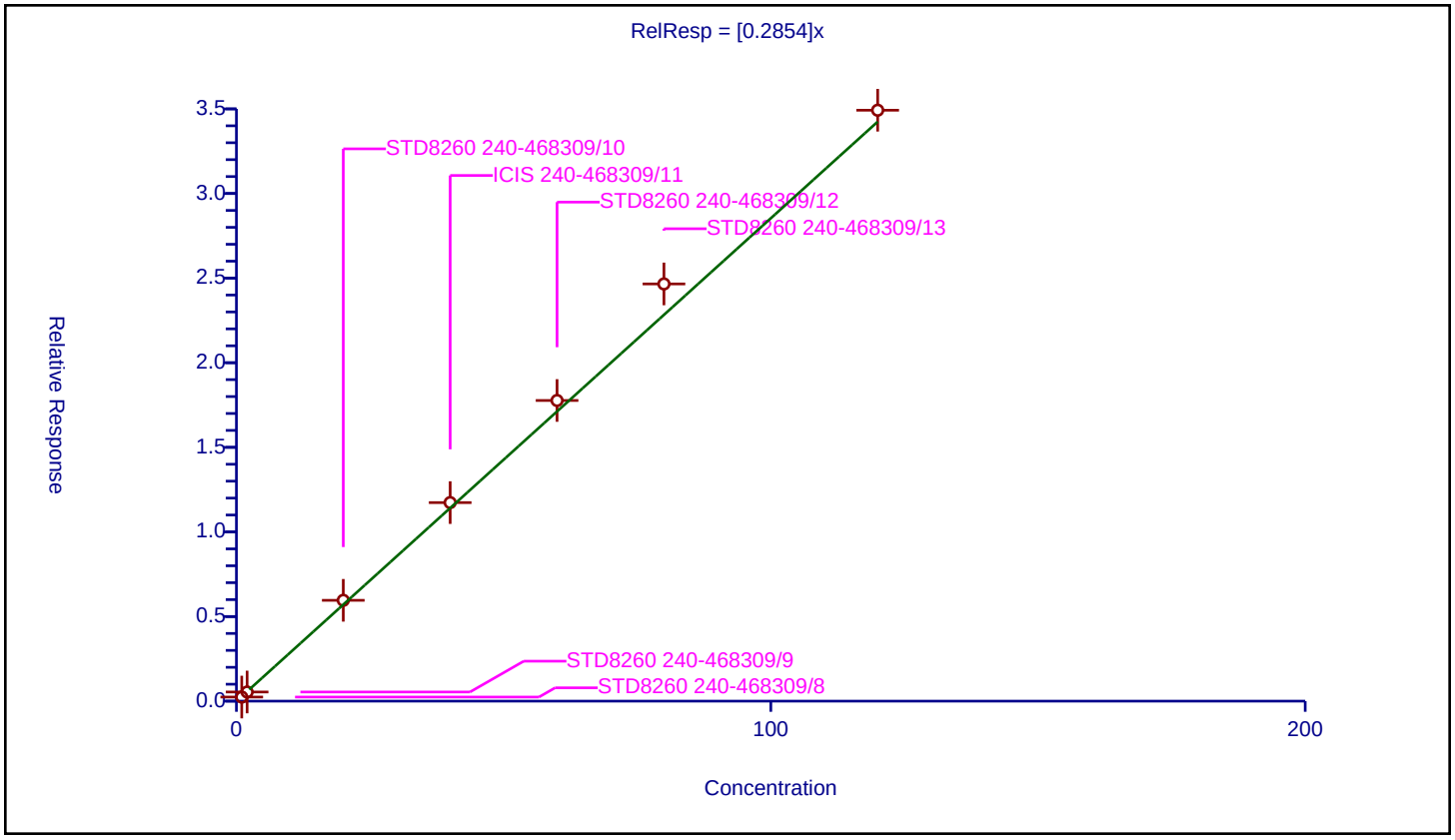
Curve Coefficients

Intercept:	0
Slope:	0.2854

Error Coefficients

Standard Error:	894000
Relative Standard Error:	8.0
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	1.0	0.241004	20.0	697084.0	0.241004	Y
2	STD8260 240-468309/9	2.0	0.539915	20.0	723743.0	0.269958	Y
3	STD8260 240-468309/10	20.0	5.957648	20.0	745049.0	0.297882	Y
4	ICIS 240-468309/11	40.0	11.733376	20.0	821576.0	0.293334	Y
5	STD8260 240-468309/12	60.0	17.767963	20.0	862602.0	0.296133	Y
6	STD8260 240-468309/13	80.0	24.655041	20.0	948069.0	0.308188	Y
7	STD8260 240-468309/14	120.0	34.921793	20.0	916989.0	0.291015	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

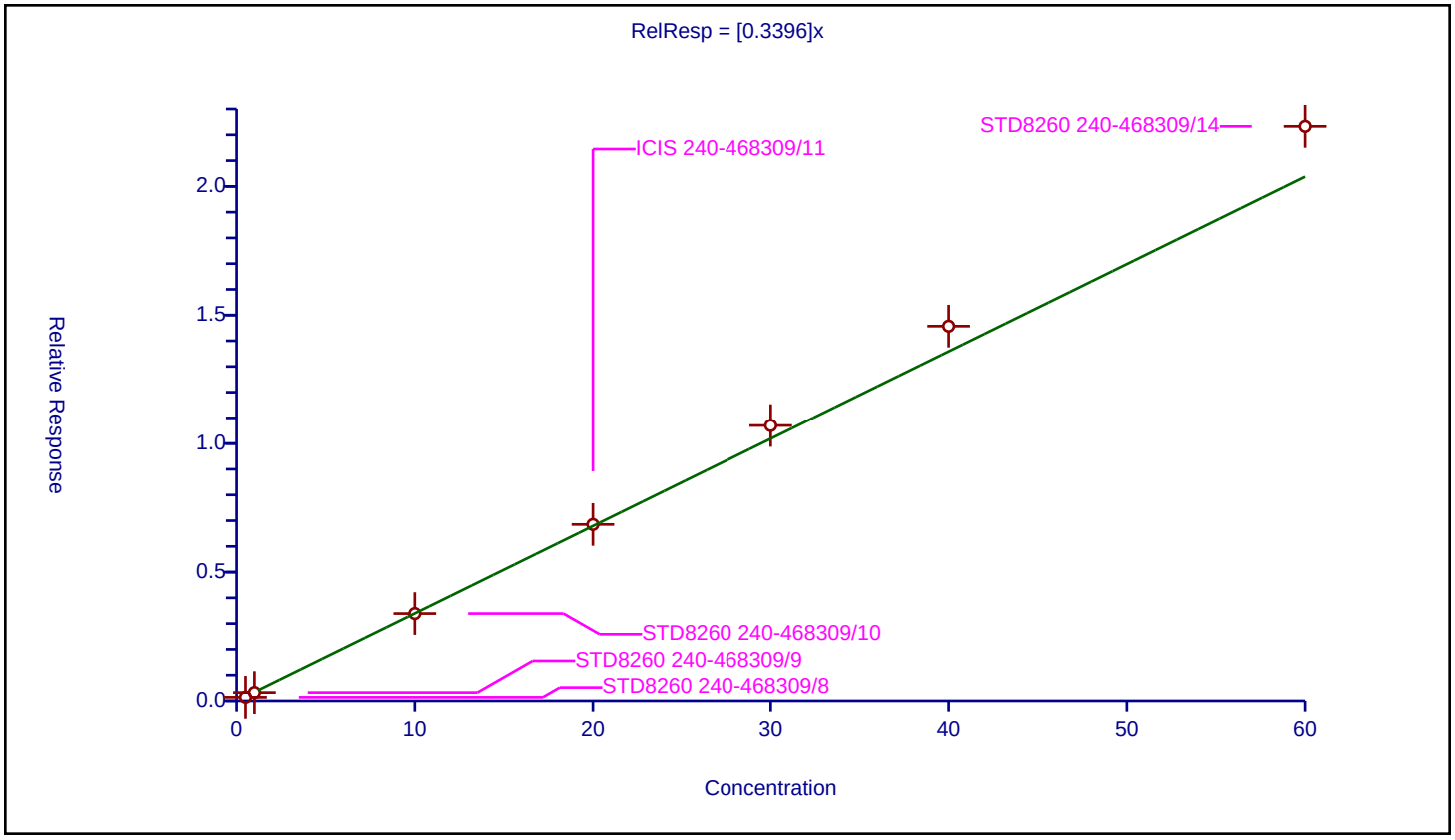
Curve Coefficients

Intercept:	0
Slope:	0.3396

Error Coefficients

Standard Error:	553000
Relative Standard Error:	9.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.139897	20.0	697084.0	0.279794	Y
2	STD8260 240-468309/9	1.0	0.322794	20.0	723743.0	0.322794	Y
3	STD8260 240-468309/10	10.0	3.390462	20.0	745049.0	0.339046	Y
4	ICIS 240-468309/11	20.0	6.853413	20.0	821576.0	0.342671	Y
5	STD8260 240-468309/12	30.0	10.702943	20.0	862602.0	0.356765	Y
6	STD8260 240-468309/13	40.0	14.570585	20.0	948069.0	0.364265	Y
7	STD8260 240-468309/14	60.0	22.328359	20.0	916989.0	0.372139	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

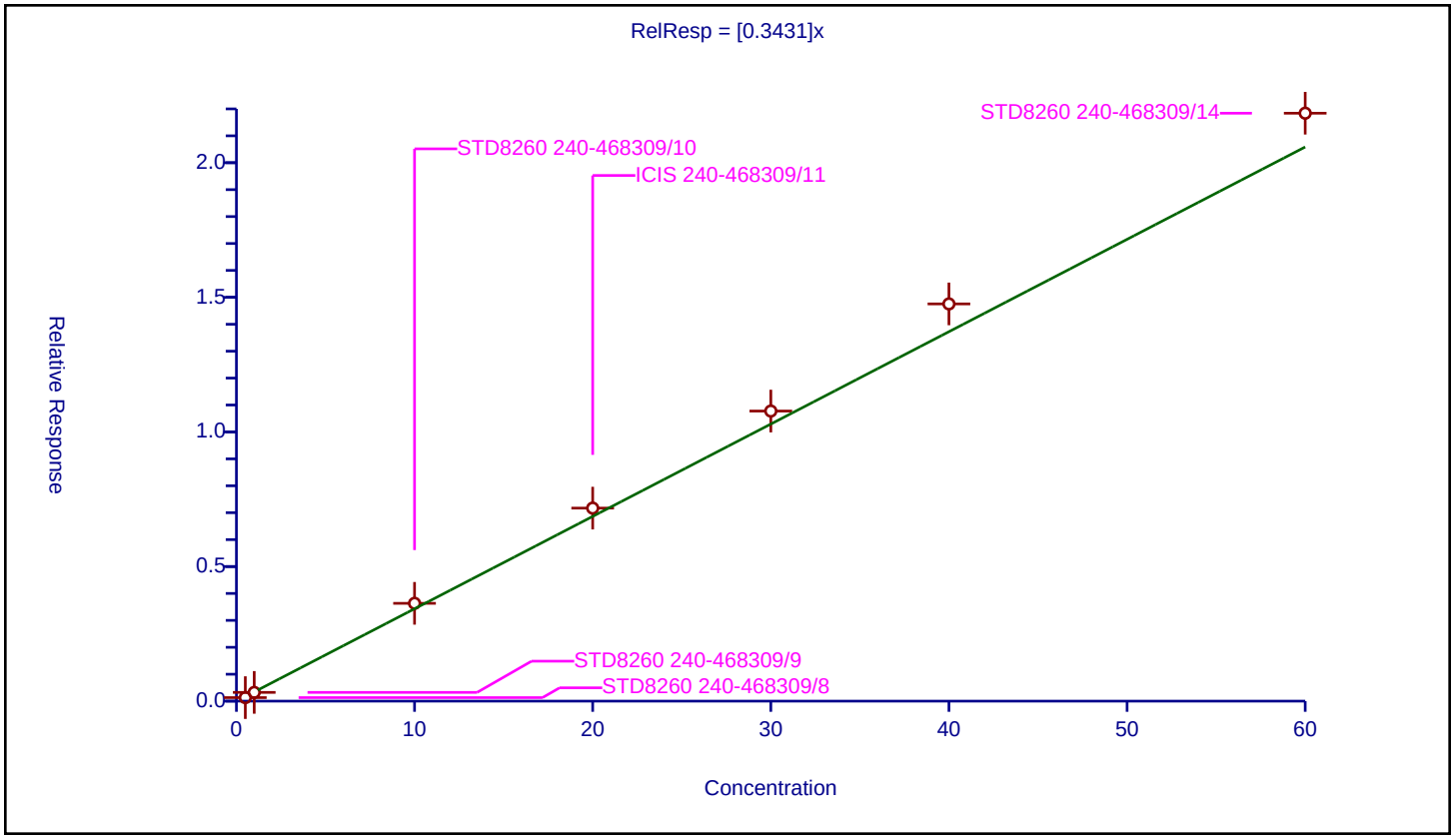
Curve Coefficients

Intercept:	0
Slope:	0.3431

Error Coefficients

Standard Error:	550000
Relative Standard Error:	11.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.131376	20.0	697084.0	0.262752	Y
2	STD8260 240-468309/9	1.0	0.325005	20.0	723743.0	0.325005	Y
3	STD8260 240-468309/10	10.0	3.633184	20.0	745049.0	0.363318	Y
4	ICIS 240-468309/11	20.0	7.169951	20.0	821576.0	0.358498	Y
5	STD8260 240-468309/12	30.0	10.776047	20.0	862602.0	0.359202	Y
6	STD8260 240-468309/13	40.0	14.755424	20.0	948069.0	0.368886	Y
7	STD8260 240-468309/14	60.0	21.840153	20.0	916989.0	0.364003	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

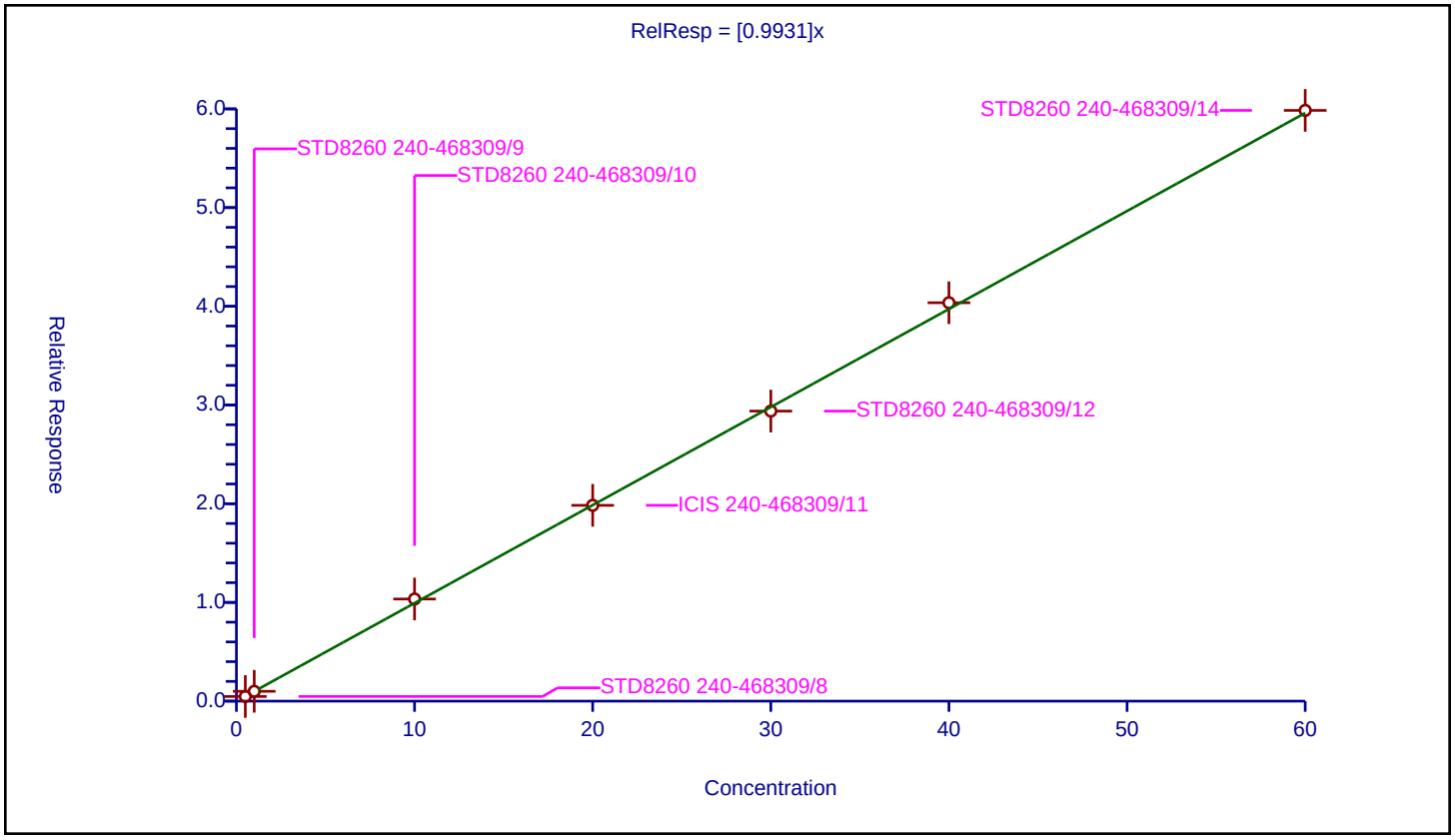
Curve Coefficients

Intercept:	0
Slope:	0.9931

Error Coefficients

Standard Error:	1510000
Relative Standard Error:	2.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.471077	20.0	697084.0	0.942153	Y
2	STD8260 240-468309/9	1.0	0.996956	20.0	723743.0	0.996956	Y
3	STD8260 240-468309/10	10.0	10.345521	20.0	745049.0	1.034552	Y
4	ICIS 240-468309/11	20.0	19.836704	20.0	821576.0	0.991835	Y
5	STD8260 240-468309/12	30.0	29.386716	20.0	862602.0	0.979557	Y
6	STD8260 240-468309/13	40.0	40.36145	20.0	948069.0	1.009036	Y
7	STD8260 240-468309/14	60.0	59.849355	20.0	916989.0	0.997489	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

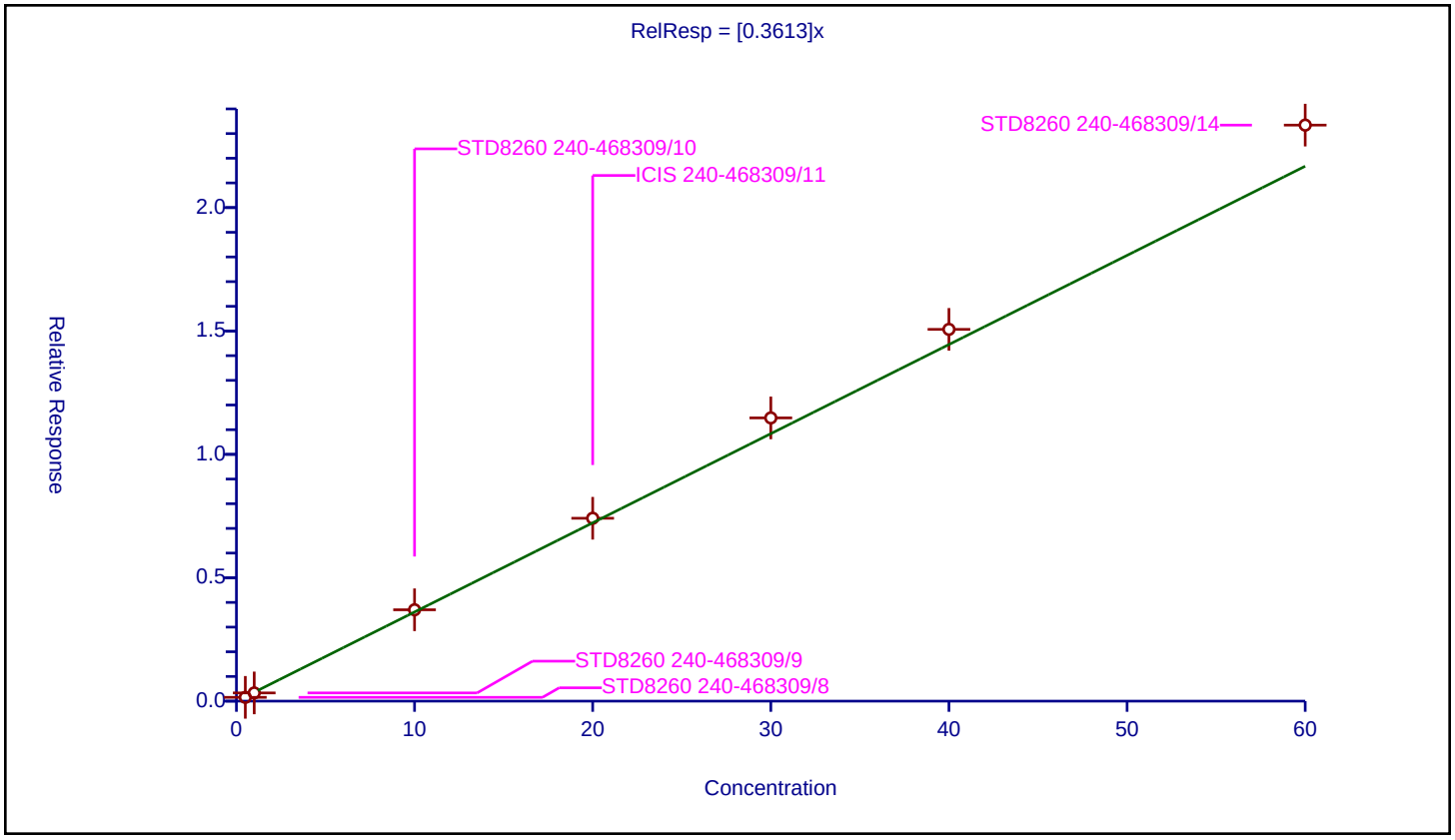
Curve Coefficients

Intercept:	0
Slope:	0.3613

Error Coefficients

Standard Error:	579000
Relative Standard Error:	8.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.153525	20.0	697084.0	0.307051	Y
2	STD8260 240-468309/9	1.0	0.332853	20.0	723743.0	0.332853	Y
3	STD8260 240-468309/10	10.0	3.702468	20.0	745049.0	0.370247	Y
4	ICIS 240-468309/11	20.0	7.411317	20.0	821576.0	0.370566	Y
5	STD8260 240-468309/12	30.0	11.477483	20.0	862602.0	0.382583	Y
6	STD8260 240-468309/13	40.0	15.06595	20.0	948069.0	0.376649	Y
7	STD8260 240-468309/14	60.0	23.342984	20.0	916989.0	0.38905	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

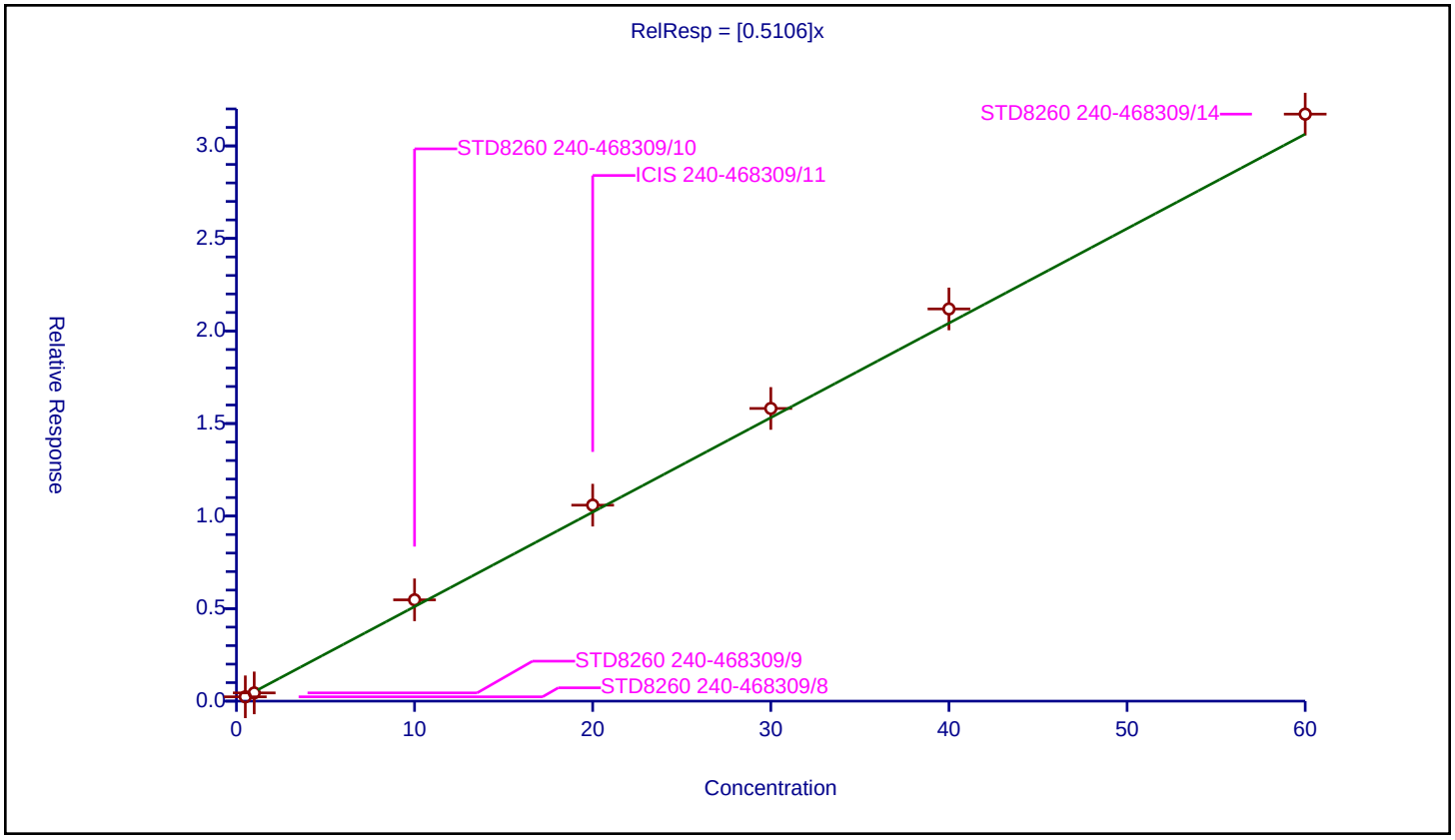
Curve Coefficients

Intercept:	0
Slope:	0.5106

Error Coefficients

Standard Error:	798000
Relative Standard Error:	7.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.233487	20.0	697084.0	0.466974	Y
2	STD8260 240-468309/9	1.0	0.444937	20.0	723743.0	0.444937	Y
3	STD8260 240-468309/10	10.0	5.473466	20.0	745049.0	0.547347	Y
4	ICIS 240-468309/11	20.0	10.589647	20.0	821576.0	0.529482	Y
5	STD8260 240-468309/12	30.0	15.814825	20.0	862602.0	0.527161	Y
6	STD8260 240-468309/13	40.0	21.190441	20.0	948069.0	0.529761	Y
7	STD8260 240-468309/14	60.0	31.718527	20.0	916989.0	0.528642	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

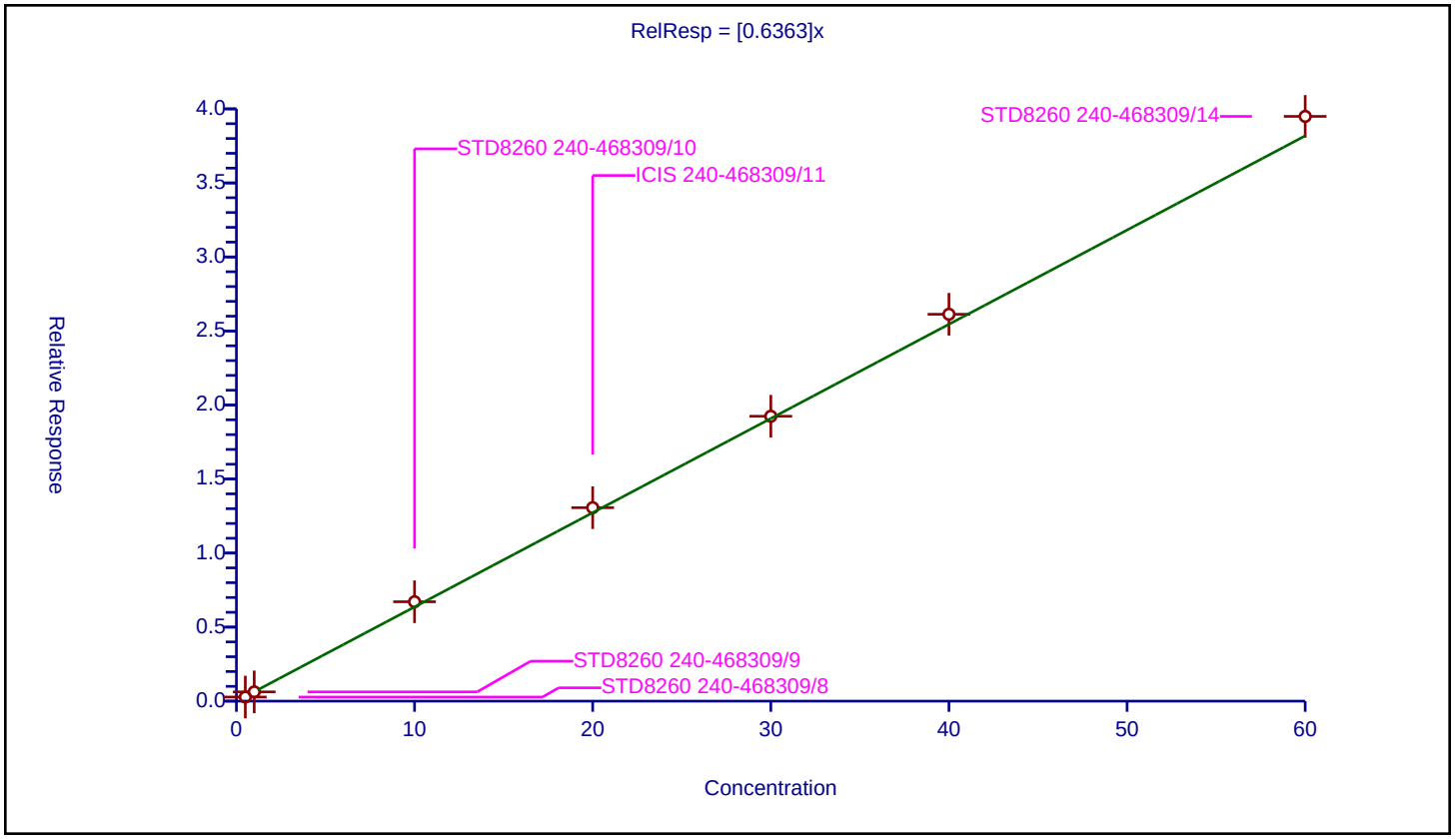
Curve Coefficients

Intercept:	0
Slope:	0.6363

Error Coefficients

Standard Error:	988000
Relative Standard Error:	6.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.275605	20.0	697084.0	0.55121	Y
2	STD8260 240-468309/9	1.0	0.625858	20.0	723743.0	0.625858	Y
3	STD8260 240-468309/10	10.0	6.712069	20.0	745049.0	0.671207	Y
4	ICIS 240-468309/11	20.0	13.066302	20.0	821576.0	0.653315	Y
5	STD8260 240-468309/12	30.0	19.240577	20.0	862602.0	0.641353	Y
6	STD8260 240-468309/13	40.0	26.129575	20.0	948069.0	0.653239	Y
7	STD8260 240-468309/14	60.0	39.49308	20.0	916989.0	0.658218	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

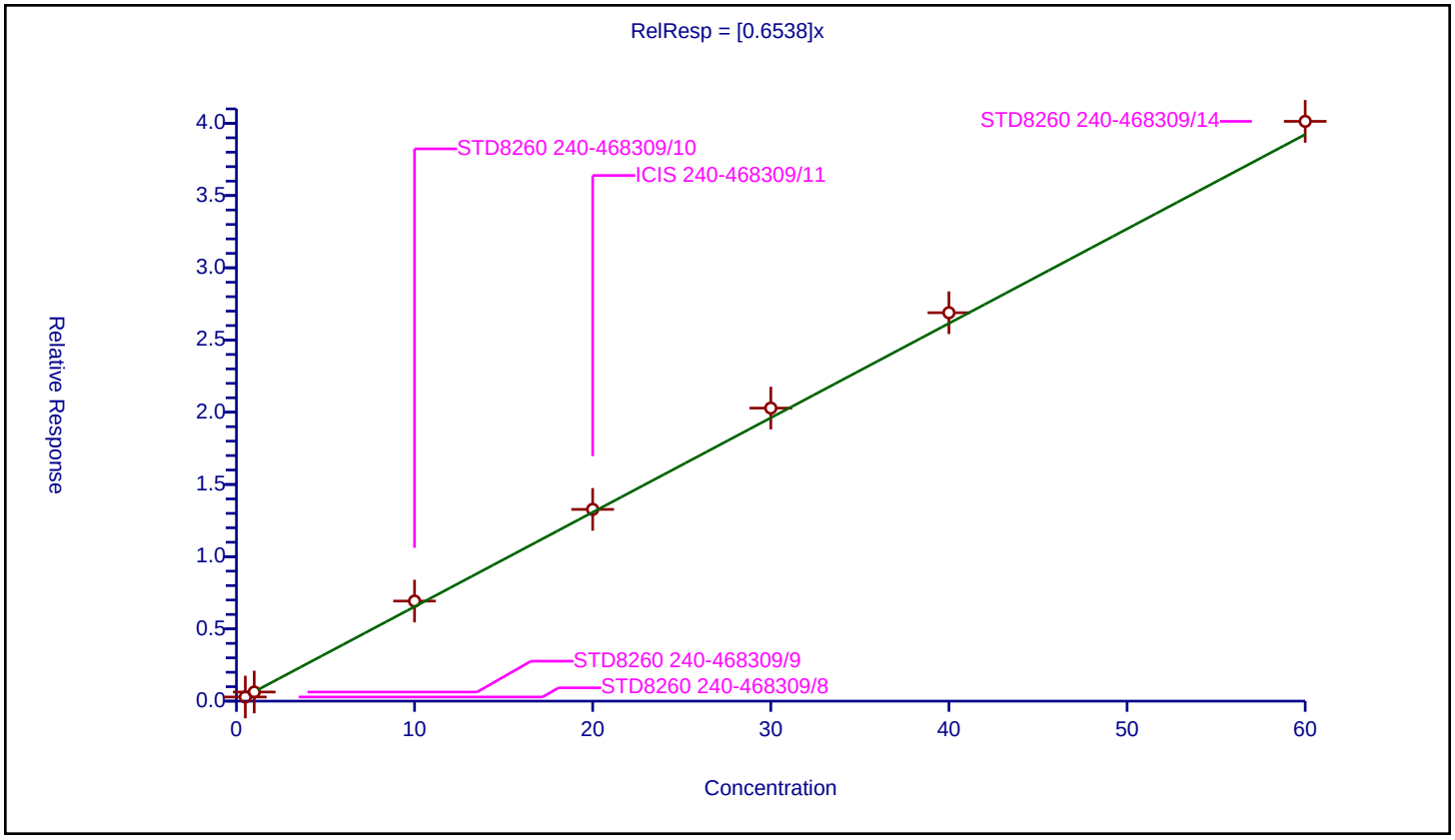
Curve Coefficients

Intercept:	0
Slope:	0.6538

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	6.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.28602	20.0	697084.0	0.57204	Y
2	STD8260 240-468309/9	1.0	0.630804	20.0	723743.0	0.630804	Y
3	STD8260 240-468309/10	10.0	6.928054	20.0	745049.0	0.692805	Y
4	ICIS 240-468309/11	20.0	13.274146	20.0	821576.0	0.663707	Y
5	STD8260 240-468309/12	30.0	20.287433	20.0	862602.0	0.676248	Y
6	STD8260 240-468309/13	40.0	26.889604	20.0	948069.0	0.67224	Y
7	STD8260 240-468309/14	60.0	40.137886	20.0	916989.0	0.668965	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

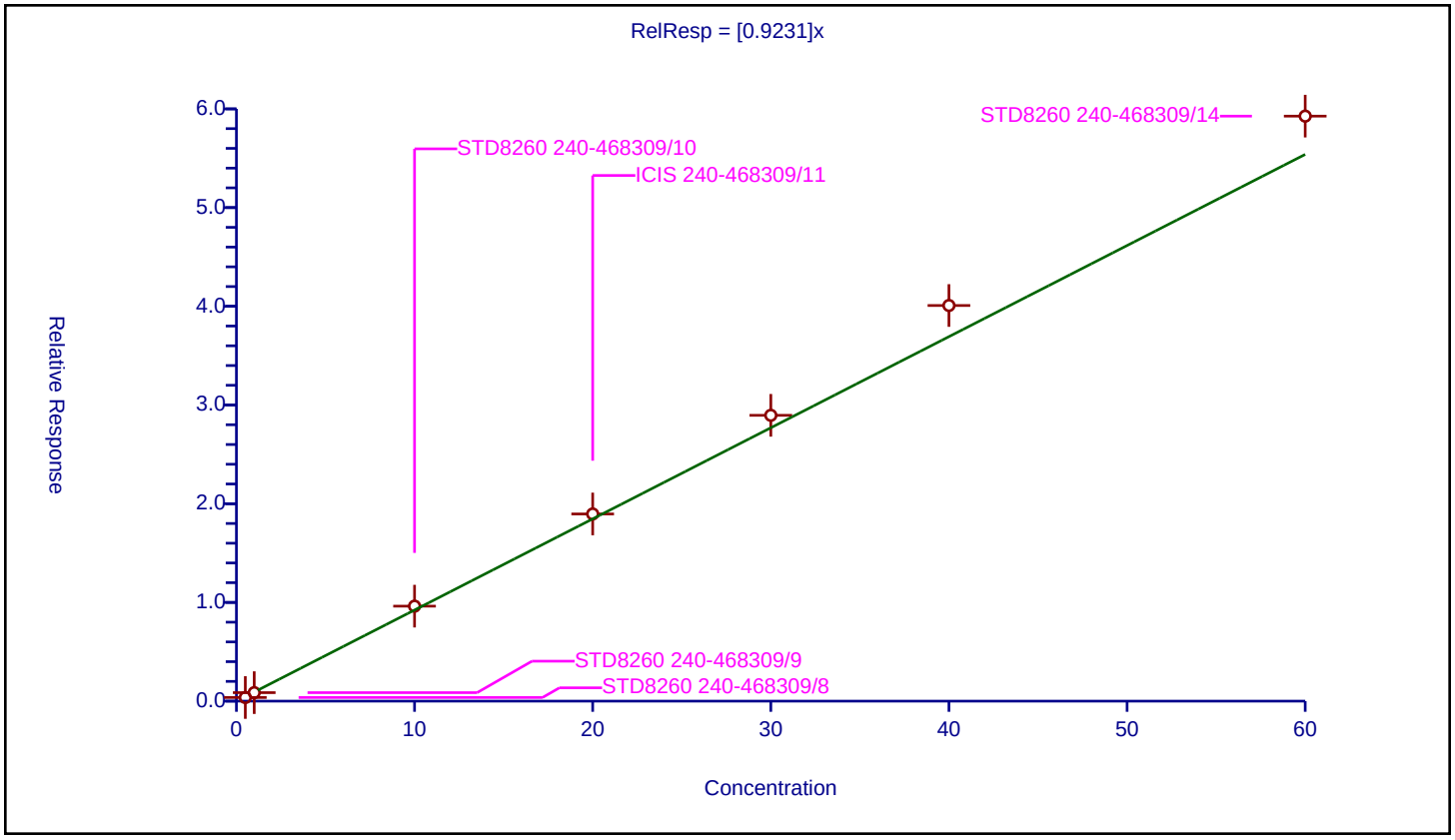
Curve Coefficients

Intercept:	0
Slope:	0.9231

Error Coefficients

Standard Error:	1490000
Relative Standard Error:	10.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.367703	20.0	697084.0	0.735406	Y
2	STD8260 240-468309/9	1.0	0.861134	20.0	723743.0	0.861134	Y
3	STD8260 240-468309/10	10.0	9.623635	20.0	745049.0	0.962364	Y
4	ICIS 240-468309/11	20.0	18.963237	20.0	821576.0	0.948162	Y
5	STD8260 240-468309/12	30.0	28.955231	20.0	862602.0	0.965174	Y
6	STD8260 240-468309/13	40.0	40.081513	20.0	948069.0	1.002038	Y
7	STD8260 240-468309/14	60.0	59.265291	20.0	916989.0	0.987755	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

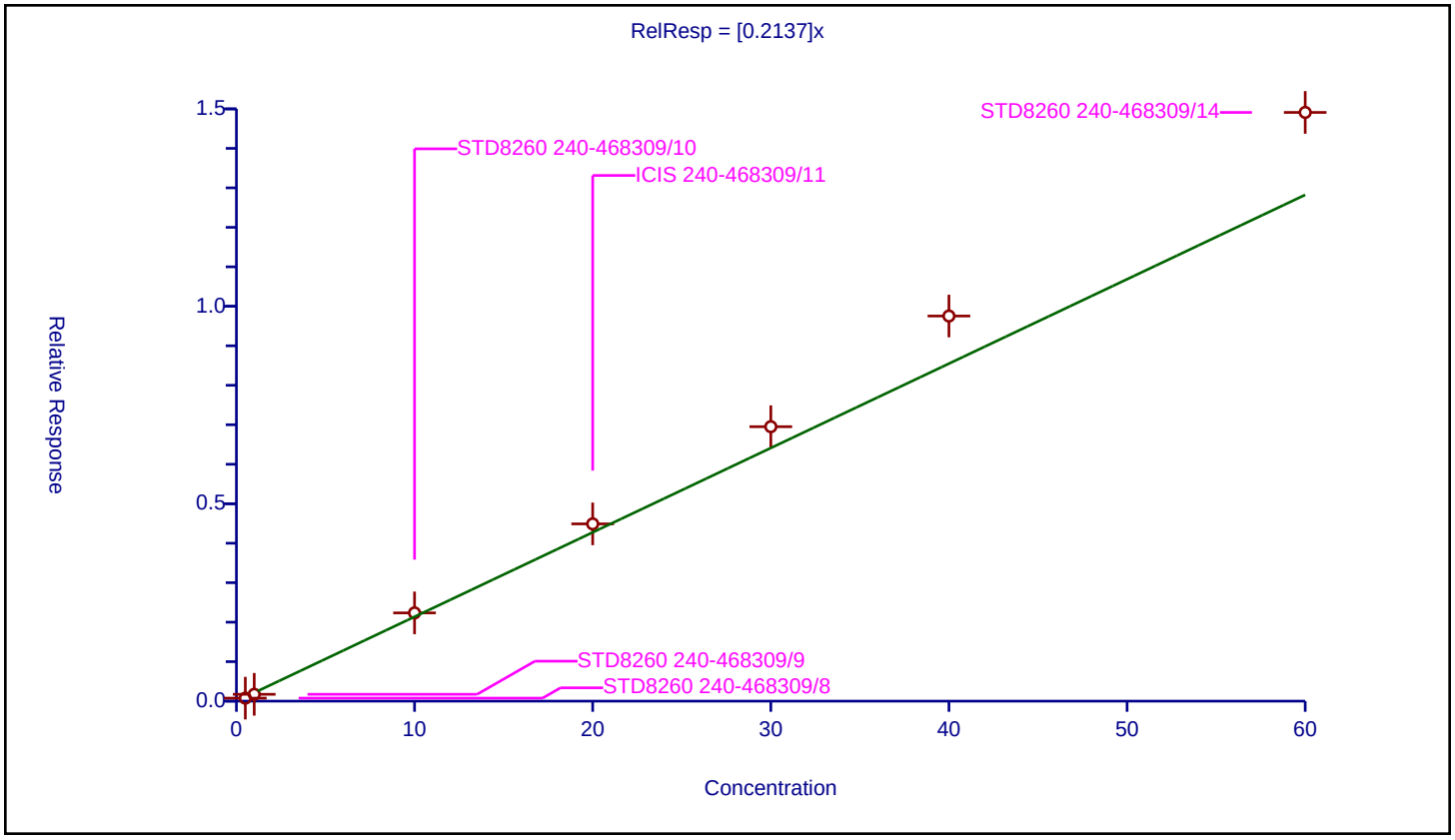
Curve Coefficients

Intercept:	0
Slope:	0.2137

Error Coefficients

Standard Error:	368000
Relative Standard Error:	17.3
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.075601	20.0	697084.0	0.151201	Y
2	STD8260 240-468309/9	1.0	0.172741	20.0	723743.0	0.172741	Y
3	STD8260 240-468309/10	10.0	2.235155	20.0	745049.0	0.223516	Y
4	ICIS 240-468309/11	20.0	4.489518	20.0	821576.0	0.224476	Y
5	STD8260 240-468309/12	30.0	6.951294	20.0	862602.0	0.23171	Y
6	STD8260 240-468309/13	40.0	9.753889	20.0	948069.0	0.243847	Y
7	STD8260 240-468309/14	60.0	14.910321	20.0	916989.0	0.248505	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

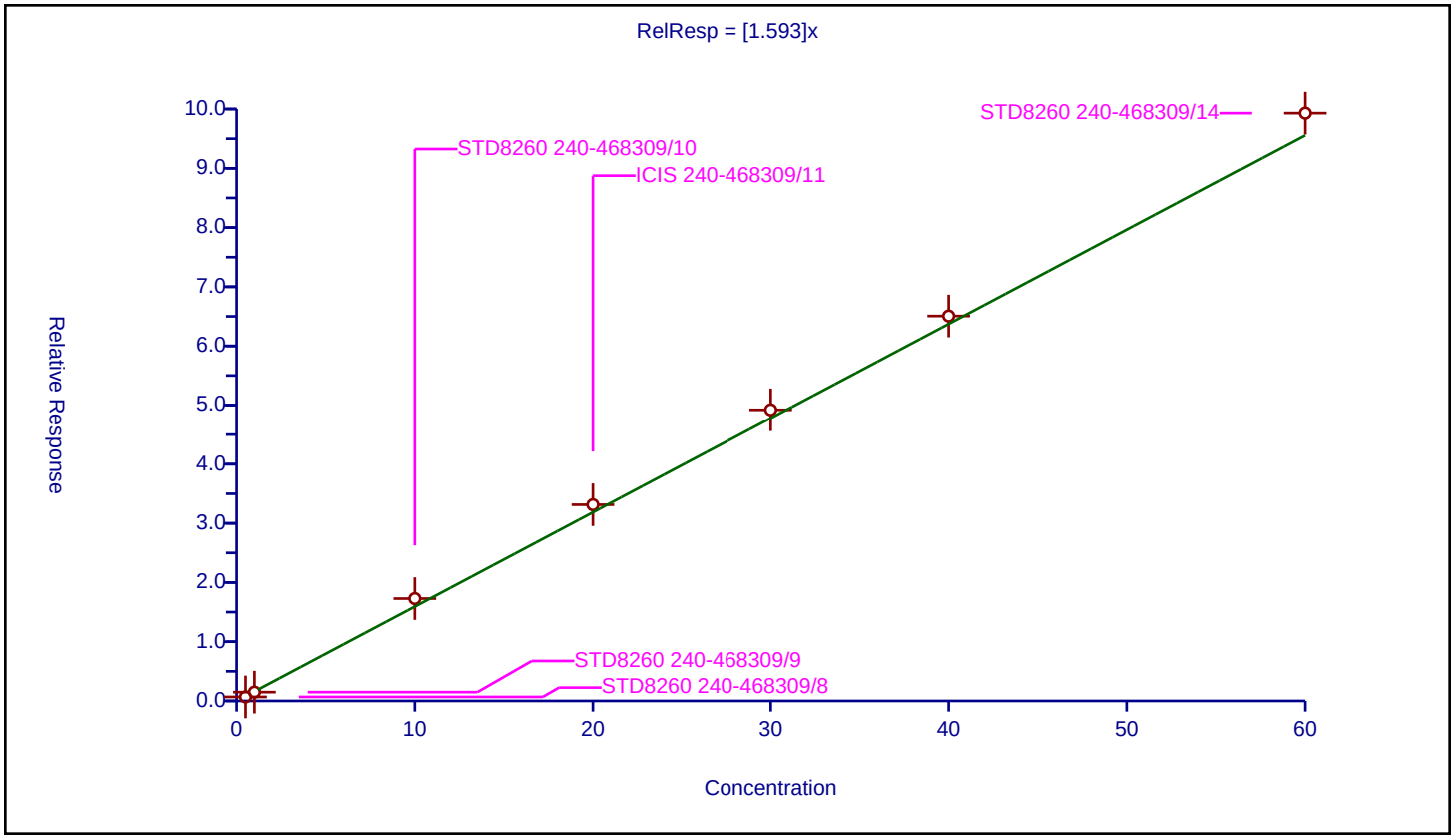
Curve Coefficients

Intercept:	0
Slope:	1.593

Error Coefficients

Standard Error:	2480000
Relative Standard Error:	8.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.677278	20.0	697084.0	1.354557	Y
2	STD8260 240-468309/9	1.0	1.48818	20.0	723743.0	1.48818	Y
3	STD8260 240-468309/10	10.0	17.284581	20.0	745049.0	1.728458	Y
4	ICIS 240-468309/11	20.0	33.146392	20.0	821576.0	1.65732	Y
5	STD8260 240-468309/12	30.0	49.195666	20.0	862602.0	1.639856	Y
6	STD8260 240-468309/13	40.0	65.061783	20.0	948069.0	1.626545	Y
7	STD8260 240-468309/14	60.0	99.301497	20.0	916989.0	1.655025	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

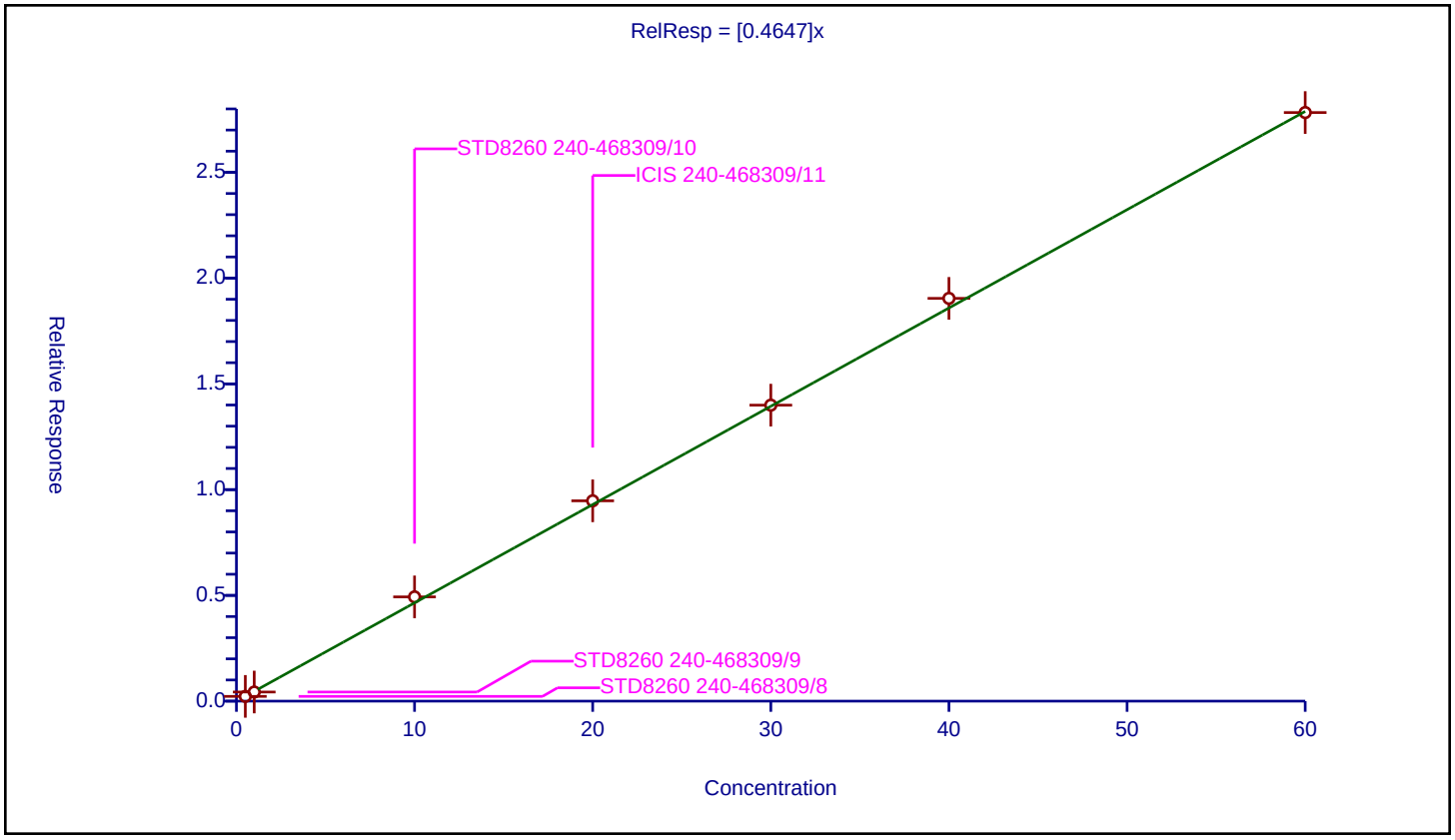
Curve Coefficients

Intercept:	0
Slope:	0.4647

Error Coefficients

Standard Error:	706000
Relative Standard Error:	4.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.224679	20.0	697084.0	0.449358	Y
2	STD8260 240-468309/9	1.0	0.430788	20.0	723743.0	0.430788	Y
3	STD8260 240-468309/10	10.0	4.929072	20.0	745049.0	0.492907	Y
4	ICIS 240-468309/11	20.0	9.470505	20.0	821576.0	0.473525	Y
5	STD8260 240-468309/12	30.0	13.994333	20.0	862602.0	0.466478	Y
6	STD8260 240-468309/13	40.0	19.041631	20.0	948069.0	0.476041	Y
7	STD8260 240-468309/14	60.0	27.827815	20.0	916989.0	0.463797	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

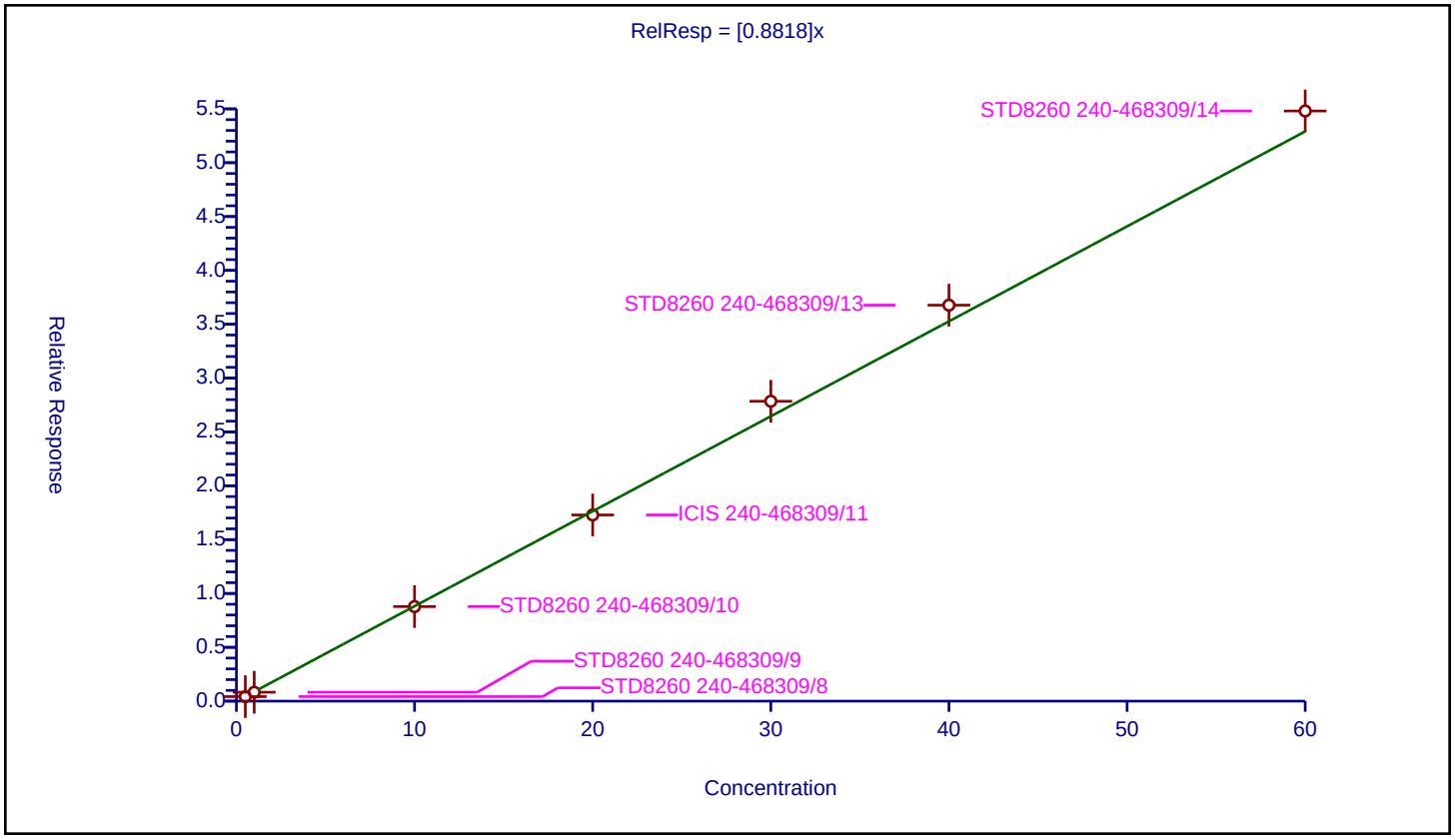
Curve Coefficients

Intercept:	0
Slope:	0.8818

Error Coefficients

Standard Error:	759000
Relative Standard Error:	4.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.421044	20.0	394163.0	0.842088	Y
2	STD8260 240-468309/9	1.0	0.826647	20.0	410768.0	0.826647	Y
3	STD8260 240-468309/10	10.0	8.780835	20.0	433838.0	0.878084	Y
4	ICIS 240-468309/11	20.0	17.290283	20.0	476094.0	0.864514	Y
5	STD8260 240-468309/12	30.0	27.850145	20.0	479051.0	0.928338	Y
6	STD8260 240-468309/13	40.0	36.774485	20.0	515775.0	0.919362	Y
7	STD8260 240-468309/14	60.0	54.803473	20.0	503367.0	0.913391	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

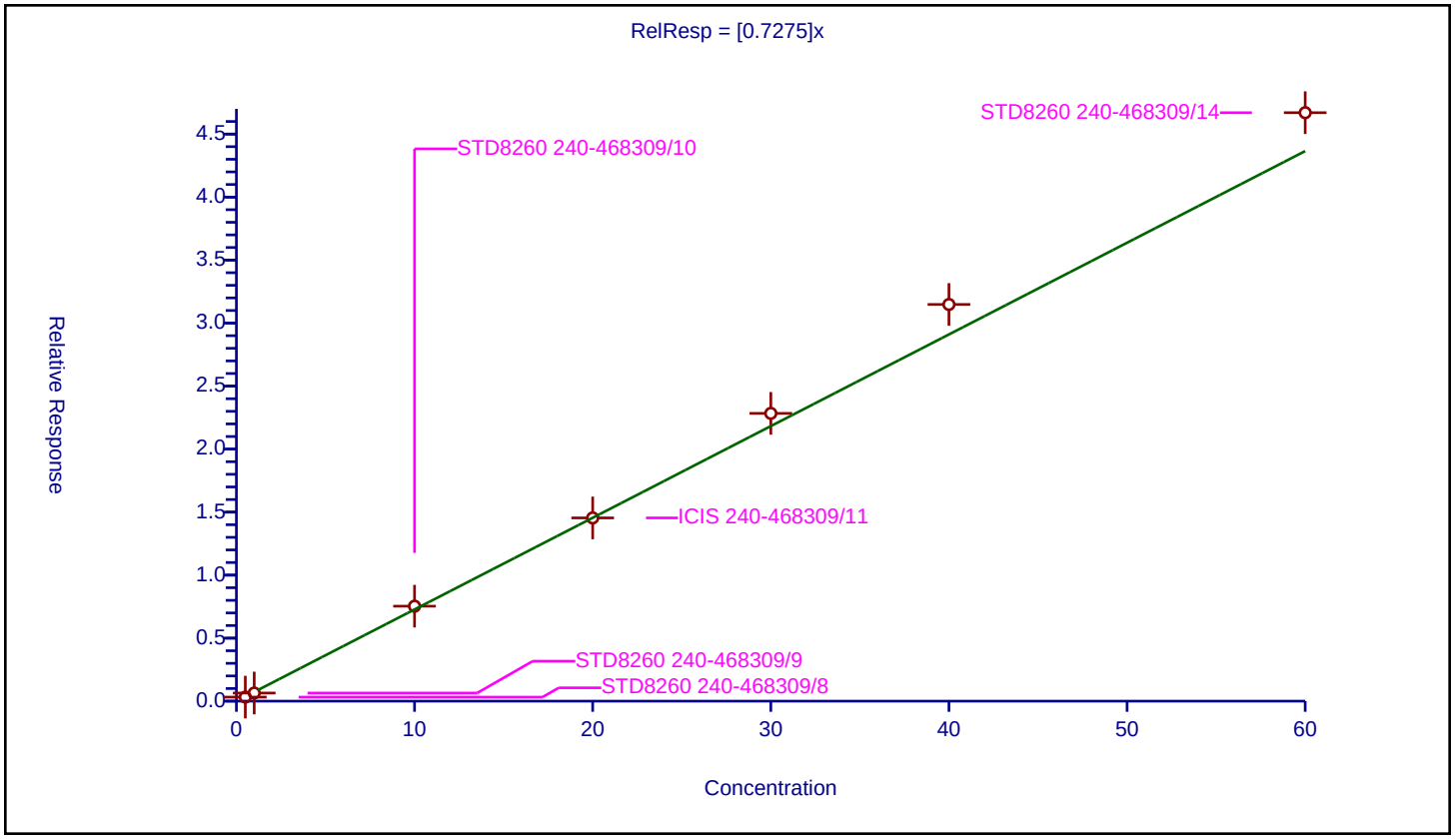
Curve Coefficients

Intercept:	0
Slope:	0.7275

Error Coefficients

Standard Error:	644000
Relative Standard Error:	8.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.320933	20.0	394163.0	0.641866	Y
2	STD8260 240-468309/9	1.0	0.643818	20.0	410768.0	0.643818	Y
3	STD8260 240-468309/10	10.0	7.535762	20.0	433838.0	0.753576	Y
4	ICIS 240-468309/11	20.0	14.54007	20.0	476094.0	0.727003	Y
5	STD8260 240-468309/12	30.0	22.835982	20.0	479051.0	0.761199	Y
6	STD8260 240-468309/13	40.0	31.478998	20.0	515775.0	0.786975	Y
7	STD8260 240-468309/14	60.0	46.69734	20.0	503367.0	0.778289	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

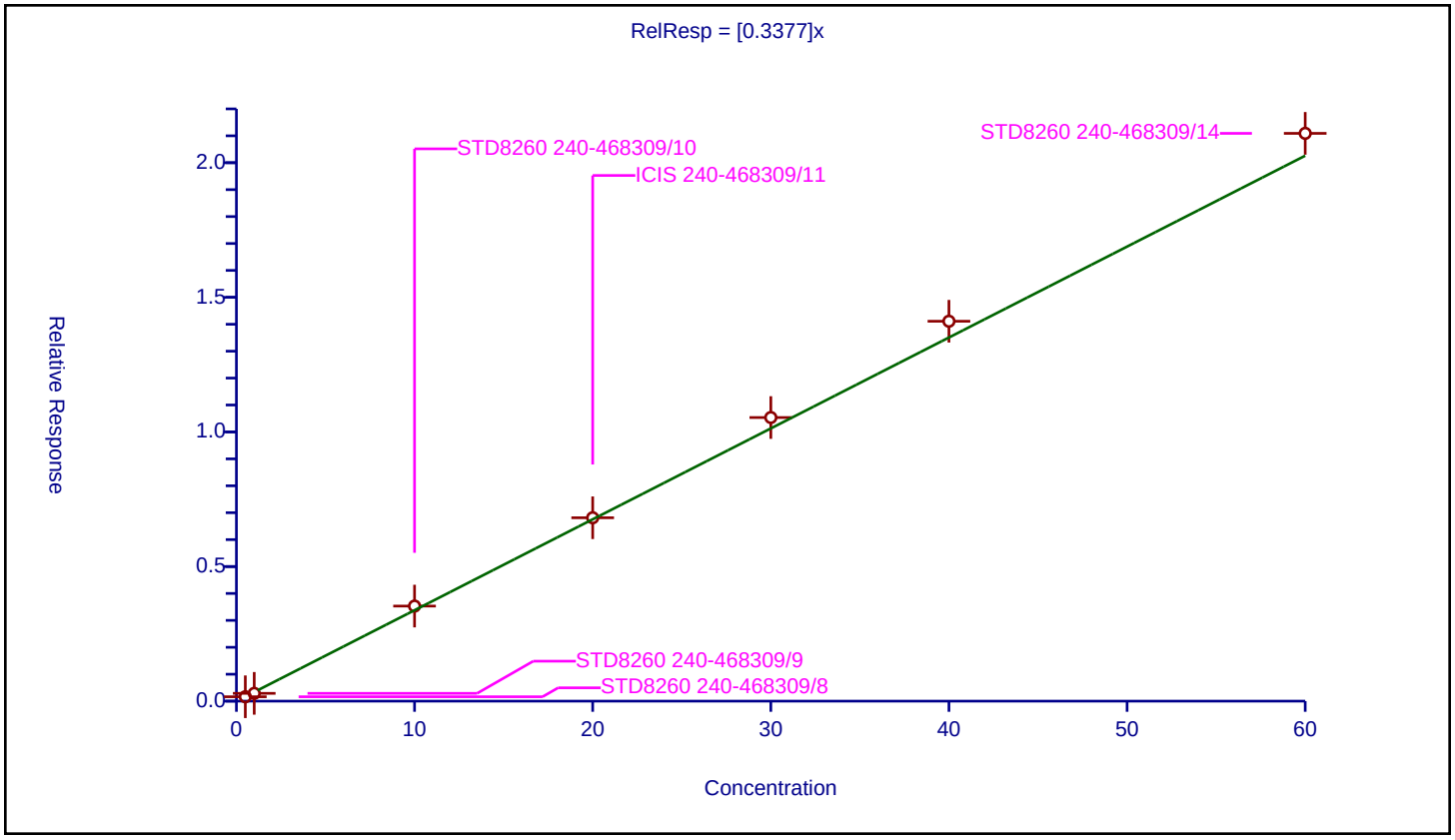
Curve Coefficients

Intercept:	0
Slope:	0.3377

Error Coefficients

Standard Error:	292000
Relative Standard Error:	7.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.162623	20.0	394163.0	0.325246	Y
2	STD8260 240-468309/9	1.0	0.289312	20.0	410768.0	0.289312	Y
3	STD8260 240-468309/10	10.0	3.531364	20.0	433838.0	0.353136	Y
4	ICIS 240-468309/11	20.0	6.811848	20.0	476094.0	0.340592	Y
5	STD8260 240-468309/12	30.0	10.535705	20.0	479051.0	0.35119	Y
6	STD8260 240-468309/13	40.0	14.112084	20.0	515775.0	0.352802	Y
7	STD8260 240-468309/14	60.0	21.090695	20.0	503367.0	0.351512	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

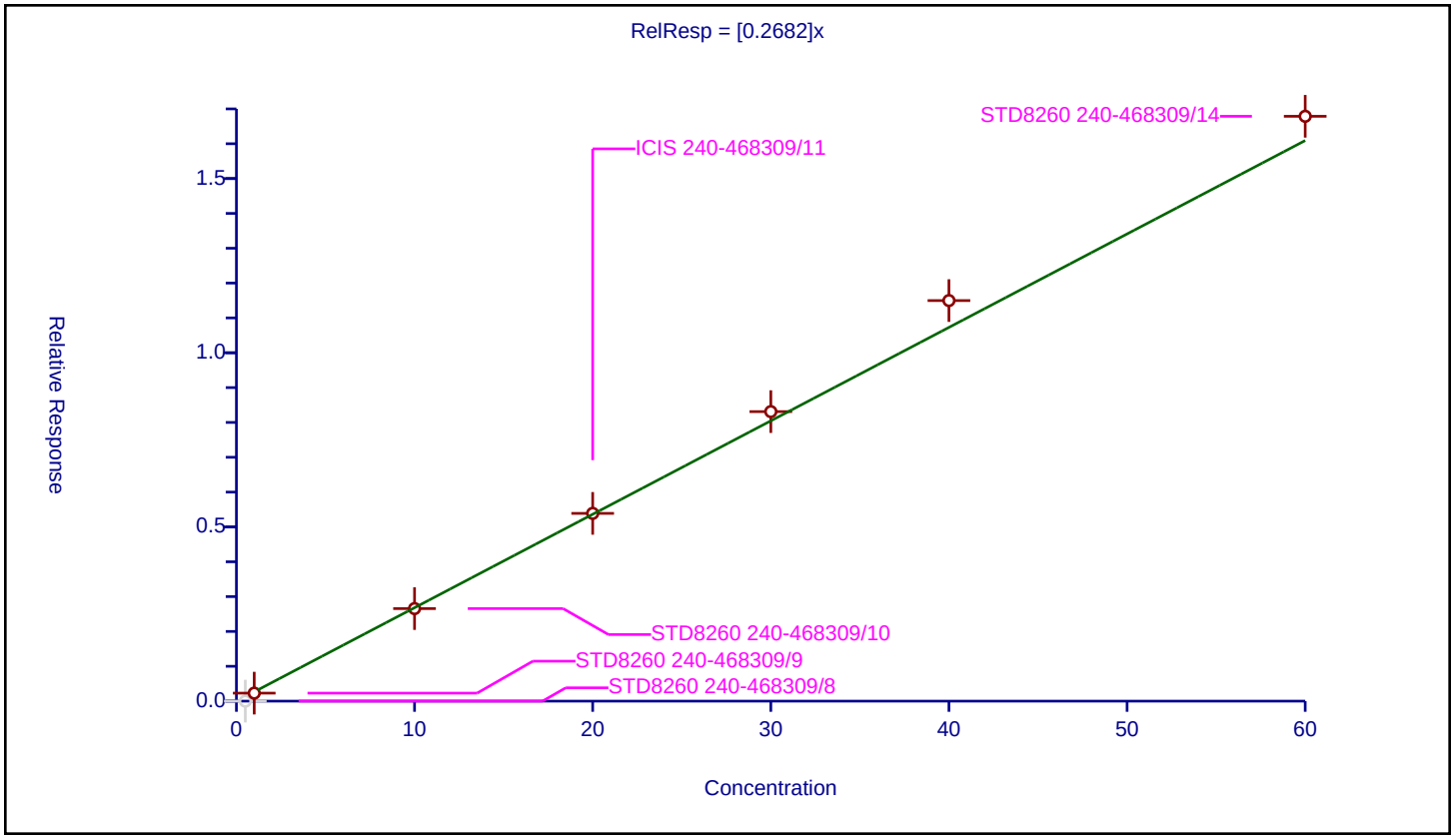
Curve Coefficients

Intercept:	0
Slope:	0.2682

Error Coefficients

Standard Error:	255000
Relative Standard Error:	7.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.0	20.0	394163.0	0.0	N
2	STD8260 240-468309/9	1.0	0.229813	20.0	410768.0	0.229813	Y
3	STD8260 240-468309/10	10.0	2.656522	20.0	433838.0	0.265652	Y
4	ICIS 240-468309/11	20.0	5.389524	20.0	476094.0	0.269476	Y
5	STD8260 240-468309/12	30.0	8.310681	20.0	479051.0	0.277023	Y
6	STD8260 240-468309/13	40.0	11.497998	20.0	515775.0	0.28745	Y
7	STD8260 240-468309/14	60.0	16.787235	20.0	503367.0	0.279787	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

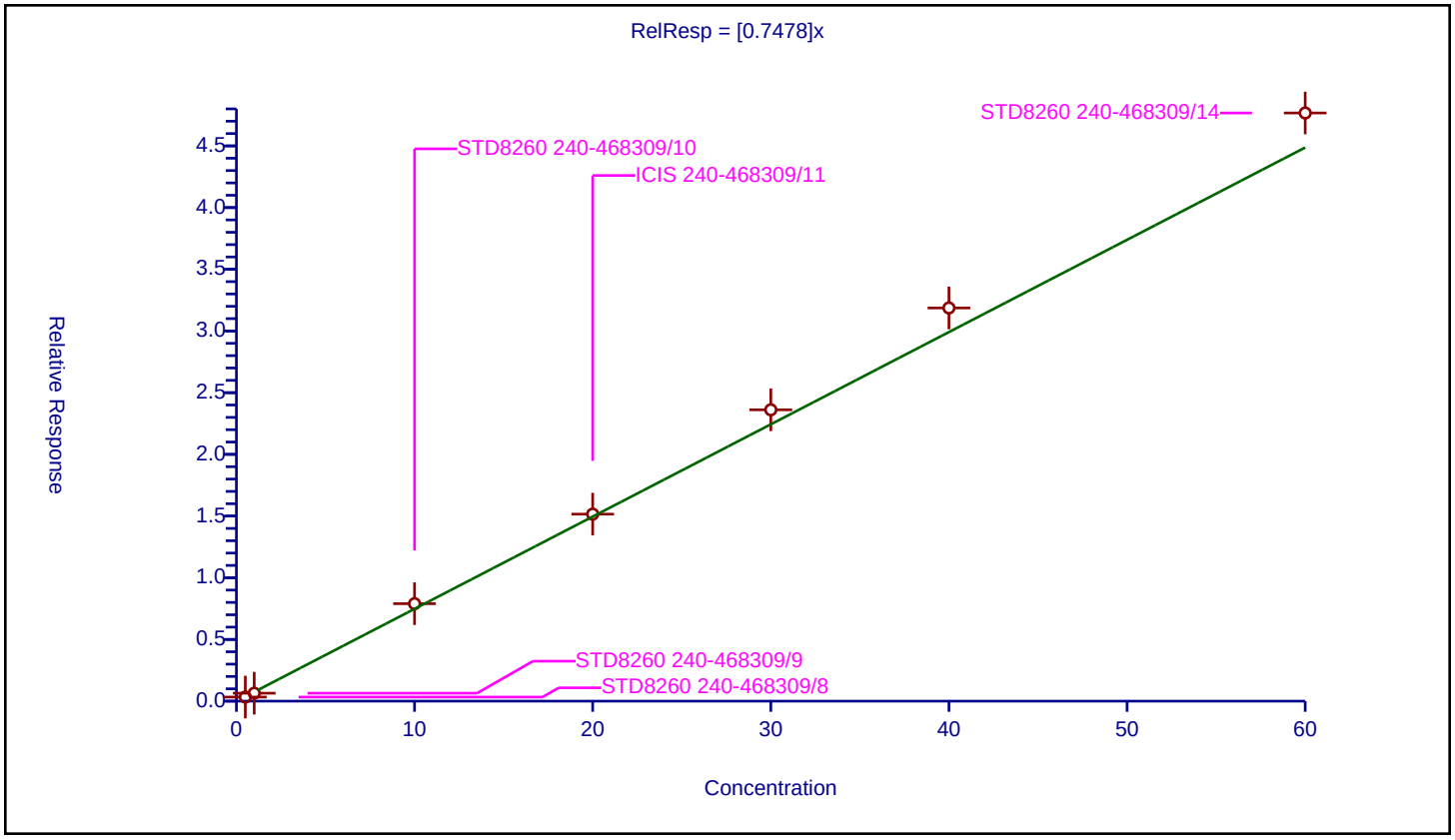
Curve Coefficients

Intercept:	0
Slope:	0.7478

Error Coefficients

Standard Error:	658000
Relative Standard Error:	8.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.331842	20.0	394163.0	0.663685	Y
2	STD8260 240-468309/9	1.0	0.644987	20.0	410768.0	0.644987	Y
3	STD8260 240-468309/10	10.0	7.899216	20.0	433838.0	0.789922	Y
4	ICIS 240-468309/11	20.0	15.157049	20.0	476094.0	0.757852	Y
5	STD8260 240-468309/12	30.0	23.61139	20.0	479051.0	0.787046	Y
6	STD8260 240-468309/13	40.0	31.866609	20.0	515775.0	0.796665	Y
7	STD8260 240-468309/14	60.0	47.666494	20.0	503367.0	0.794442	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

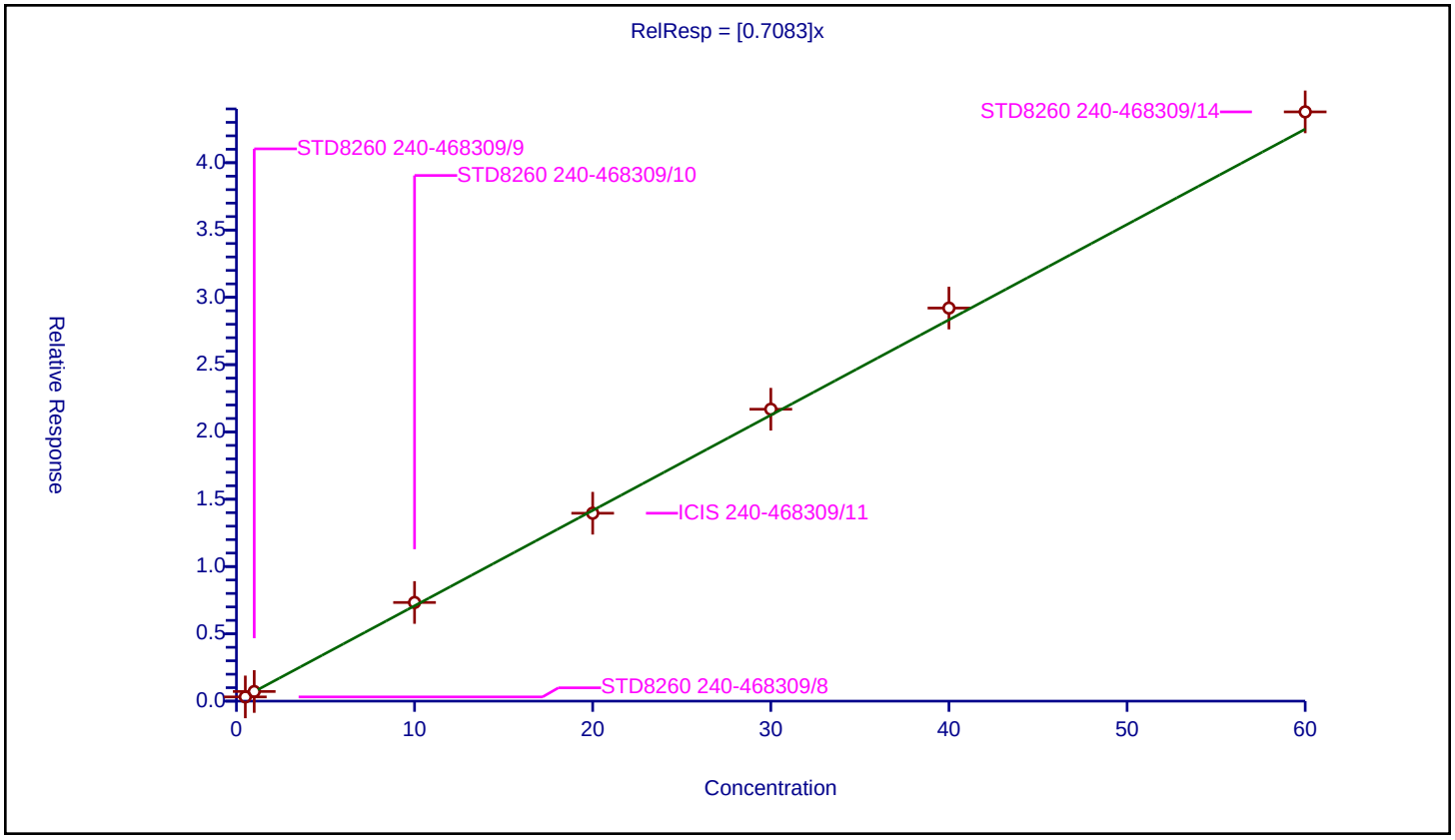
Curve Coefficients

Intercept:	0
Slope:	0.7083

Error Coefficients

Standard Error:	604000
Relative Standard Error:	5.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.313627	20.0	394163.0	0.627253	Y
2	STD8260 240-468309/9	1.0	0.717193	20.0	410768.0	0.717193	Y
3	STD8260 240-468309/10	10.0	7.329418	20.0	433838.0	0.732942	Y
4	ICIS 240-468309/11	20.0	13.961319	20.0	476094.0	0.698066	Y
5	STD8260 240-468309/12	30.0	21.687837	20.0	479051.0	0.722928	Y
6	STD8260 240-468309/13	40.0	29.202191	20.0	515775.0	0.730055	Y
7	STD8260 240-468309/14	60.0	43.779111	20.0	503367.0	0.729652	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

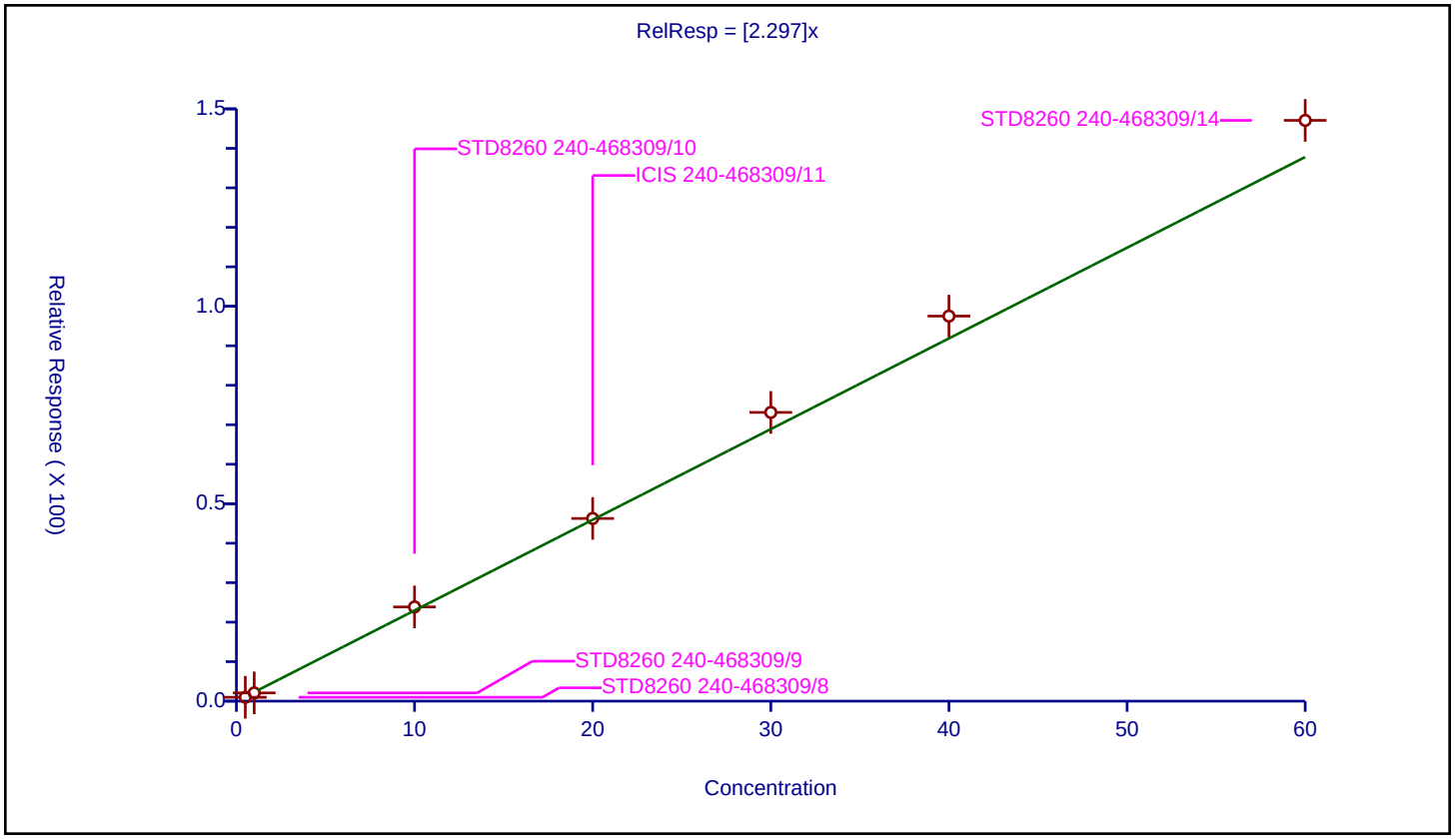
Curve Coefficients

Intercept:	0
Slope:	2.297

Error Coefficients

Standard Error:	2020000
Relative Standard Error:	8.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.982385	20.0	394163.0	1.964771	Y
2	STD8260 240-468309/9	1.0	2.086044	20.0	410768.0	2.086044	Y
3	STD8260 240-468309/10	10.0	23.862179	20.0	433838.0	2.386218	Y
4	ICIS 240-468309/11	20.0	46.262839	20.0	476094.0	2.313142	Y
5	STD8260 240-468309/12	30.0	73.125408	20.0	479051.0	2.437514	Y
6	STD8260 240-468309/13	40.0	97.521981	20.0	515775.0	2.43805	Y
7	STD8260 240-468309/14	60.0	147.083023	20.0	503367.0	2.451384	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

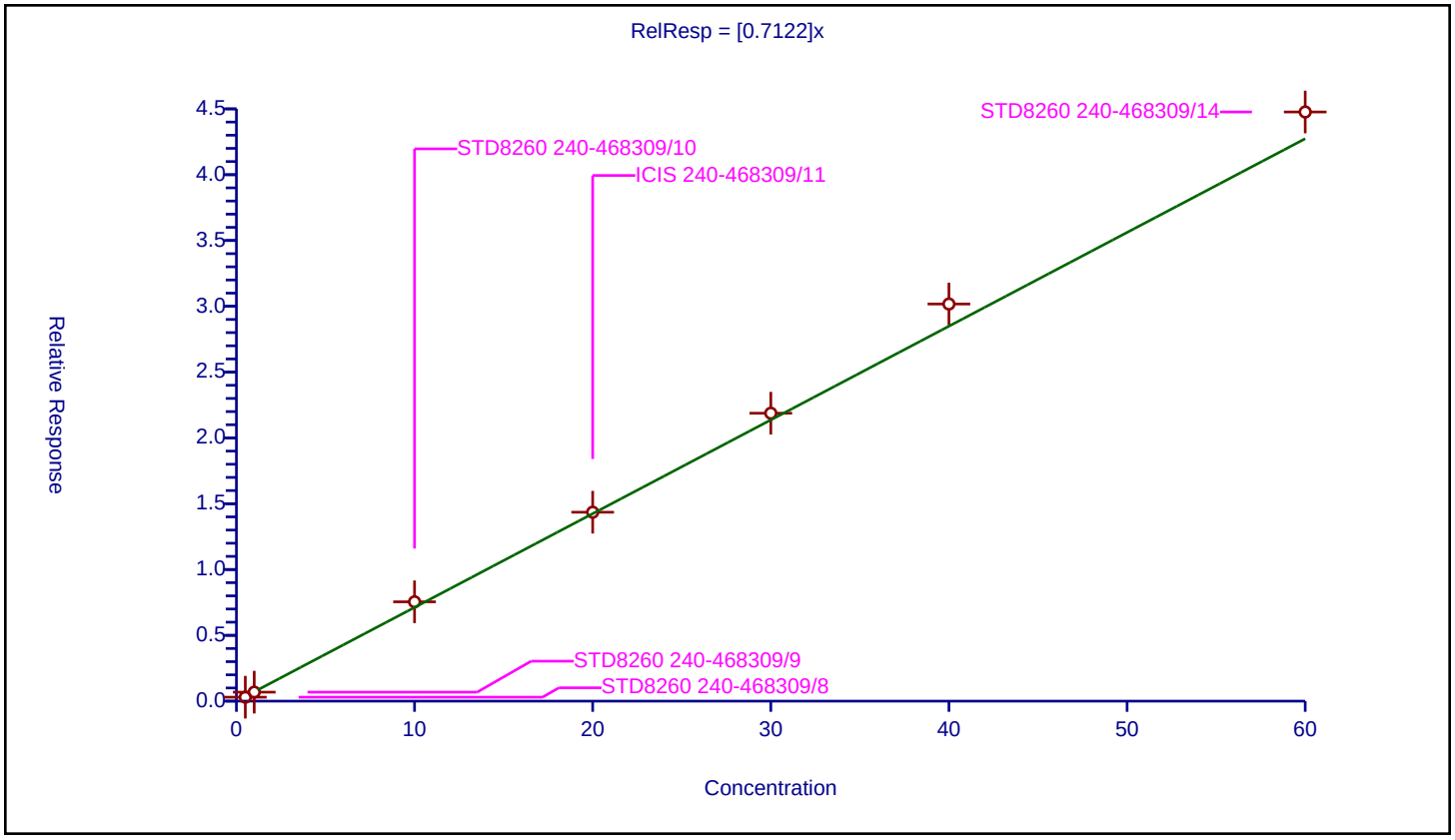
Curve Coefficients

Intercept:	0
Slope:	0.7122

Error Coefficients

Standard Error:	618000
Relative Standard Error:	7.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.300079	20.0	394163.0	0.600158	Y
2	STD8260 240-468309/9	1.0	0.683403	20.0	410768.0	0.683403	Y
3	STD8260 240-468309/10	10.0	7.547287	20.0	433838.0	0.754729	Y
4	ICIS 240-468309/11	20.0	14.354812	20.0	476094.0	0.717741	Y
5	STD8260 240-468309/12	30.0	21.877796	20.0	479051.0	0.72926	Y
6	STD8260 240-468309/13	40.0	30.174204	20.0	515775.0	0.754355	Y
7	STD8260 240-468309/14	60.0	44.764754	20.0	503367.0	0.746079	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

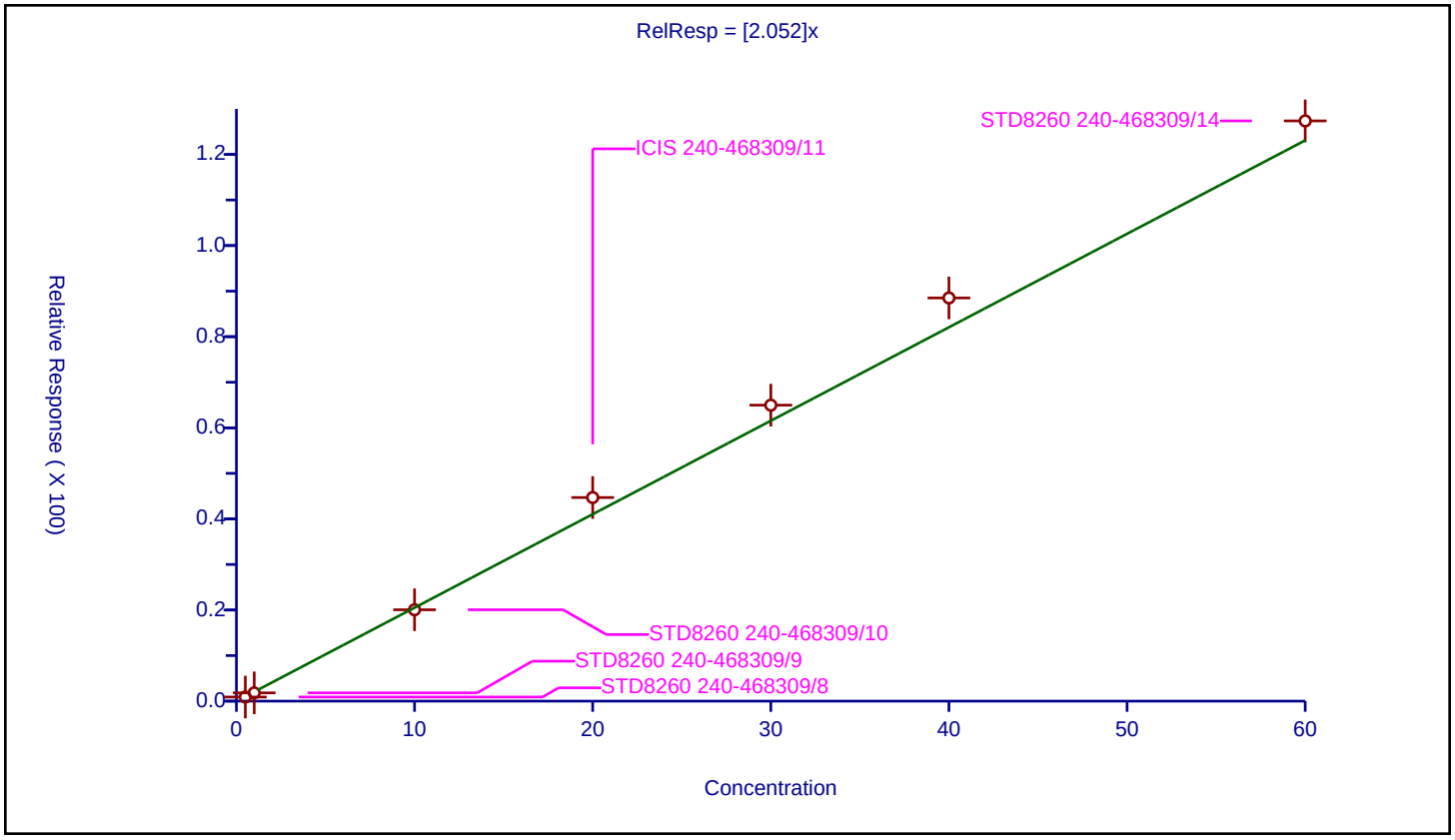
Curve Coefficients

Intercept:	0
Slope:	2.052

Error Coefficients

Standard Error:	1790000
Relative Standard Error:	8.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.901962	20.0	394163.0	1.803924	Y
2	STD8260 240-468309/9	1.0	1.815575	20.0	410768.0	1.815575	Y
3	STD8260 240-468309/10	10.0	20.058363	20.0	433838.0	2.005836	Y
4	ICIS 240-468309/11	20.0	44.688738	20.0	476094.0	2.234437	Y
5	STD8260 240-468309/12	30.0	64.969784	20.0	479051.0	2.165659	Y
6	STD8260 240-468309/13	40.0	88.502079	20.0	515775.0	2.212552	Y
7	STD8260 240-468309/14	60.0	127.362302	20.0	503367.0	2.122705	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

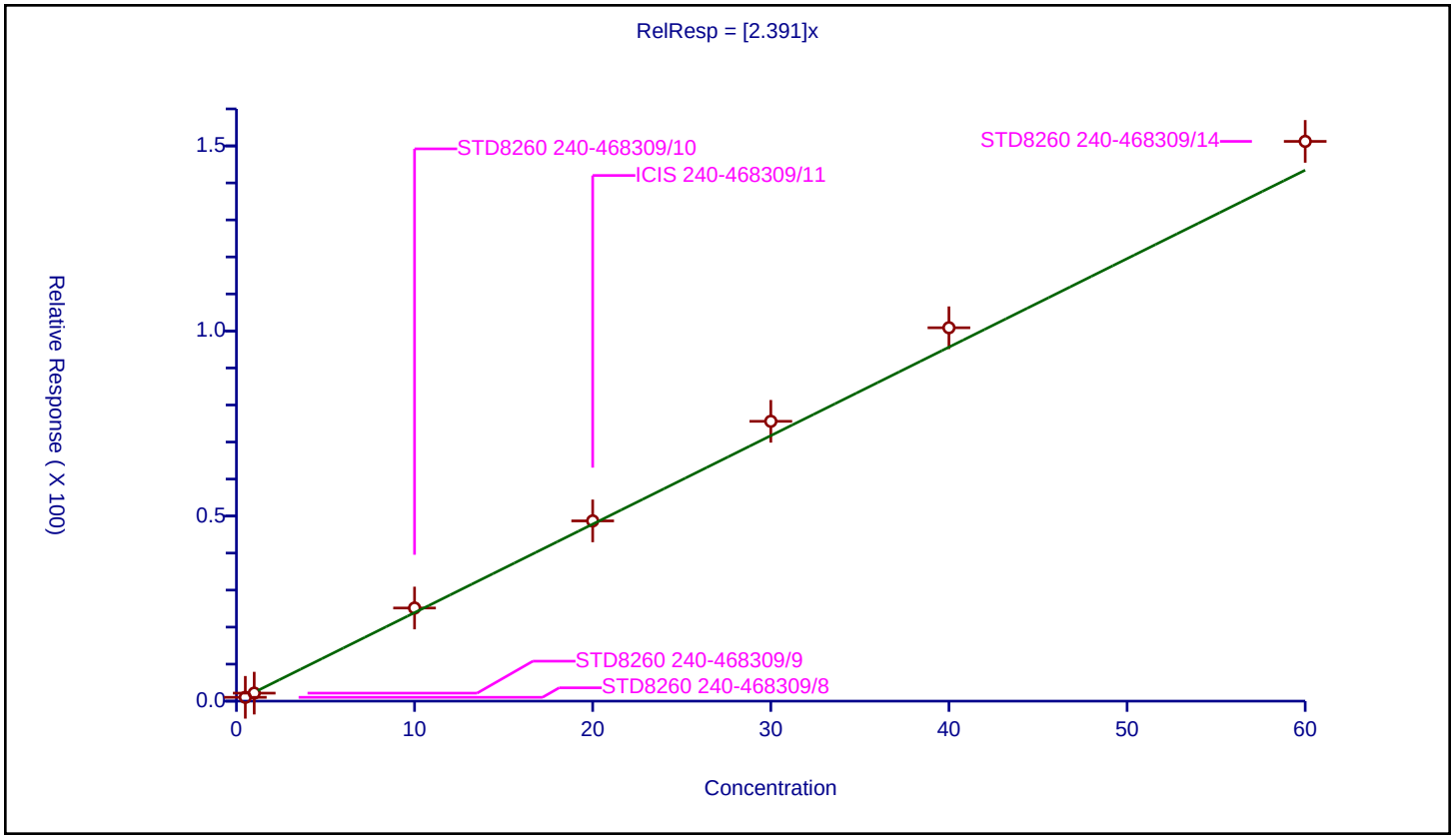
Curve Coefficients

Intercept:	0
Slope:	2.391

Error Coefficients

Standard Error:	2090000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	1.02932	20.0	394163.0	2.058641	Y
2	STD8260 240-468309/9	1.0	2.164531	20.0	410768.0	2.164531	Y
3	STD8260 240-468309/10	10.0	25.157547	20.0	433838.0	2.515755	Y
4	ICIS 240-468309/11	20.0	48.694796	20.0	476094.0	2.43474	Y
5	STD8260 240-468309/12	30.0	75.600844	20.0	479051.0	2.520028	Y
6	STD8260 240-468309/13	40.0	100.875692	20.0	515775.0	2.521892	Y
7	STD8260 240-468309/14	60.0	151.224613	20.0	503367.0	2.52041	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

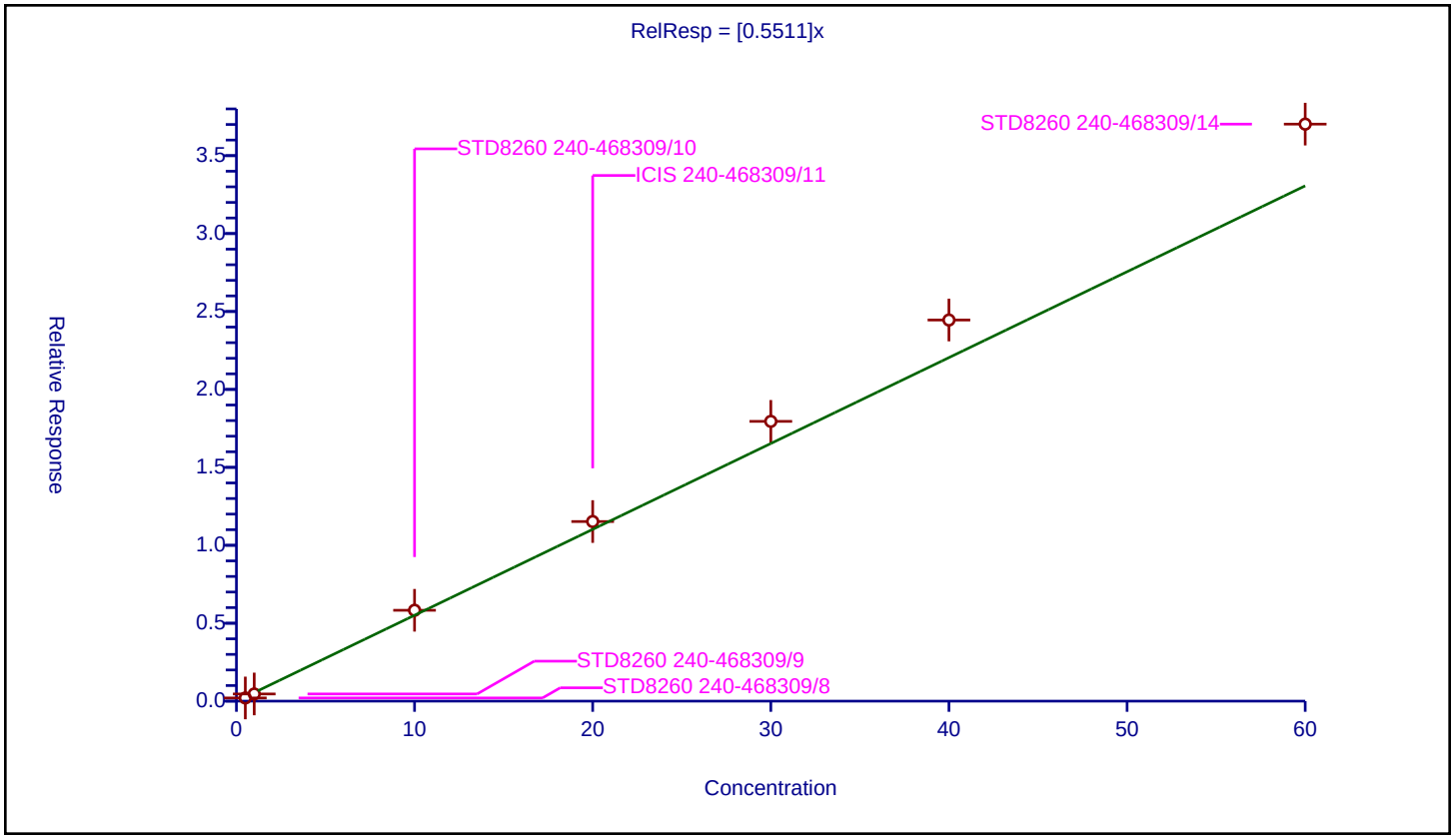
Curve Coefficients

Intercept:	0
Slope:	0.5511

Error Coefficients

Standard Error:	507000
Relative Standard Error:	14.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.205042	20.0	394163.0	0.410084	Y
2	STD8260 240-468309/9	1.0	0.46138	20.0	410768.0	0.46138	Y
3	STD8260 240-468309/10	10.0	5.829319	20.0	433838.0	0.582932	Y
4	ICIS 240-468309/11	20.0	11.524615	20.0	476094.0	0.576231	Y
5	STD8260 240-468309/12	30.0	17.950991	20.0	479051.0	0.598366	Y
6	STD8260 240-468309/13	40.0	24.453492	20.0	515775.0	0.611337	Y
7	STD8260 240-468309/14	60.0	37.022491	20.0	503367.0	0.617042	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

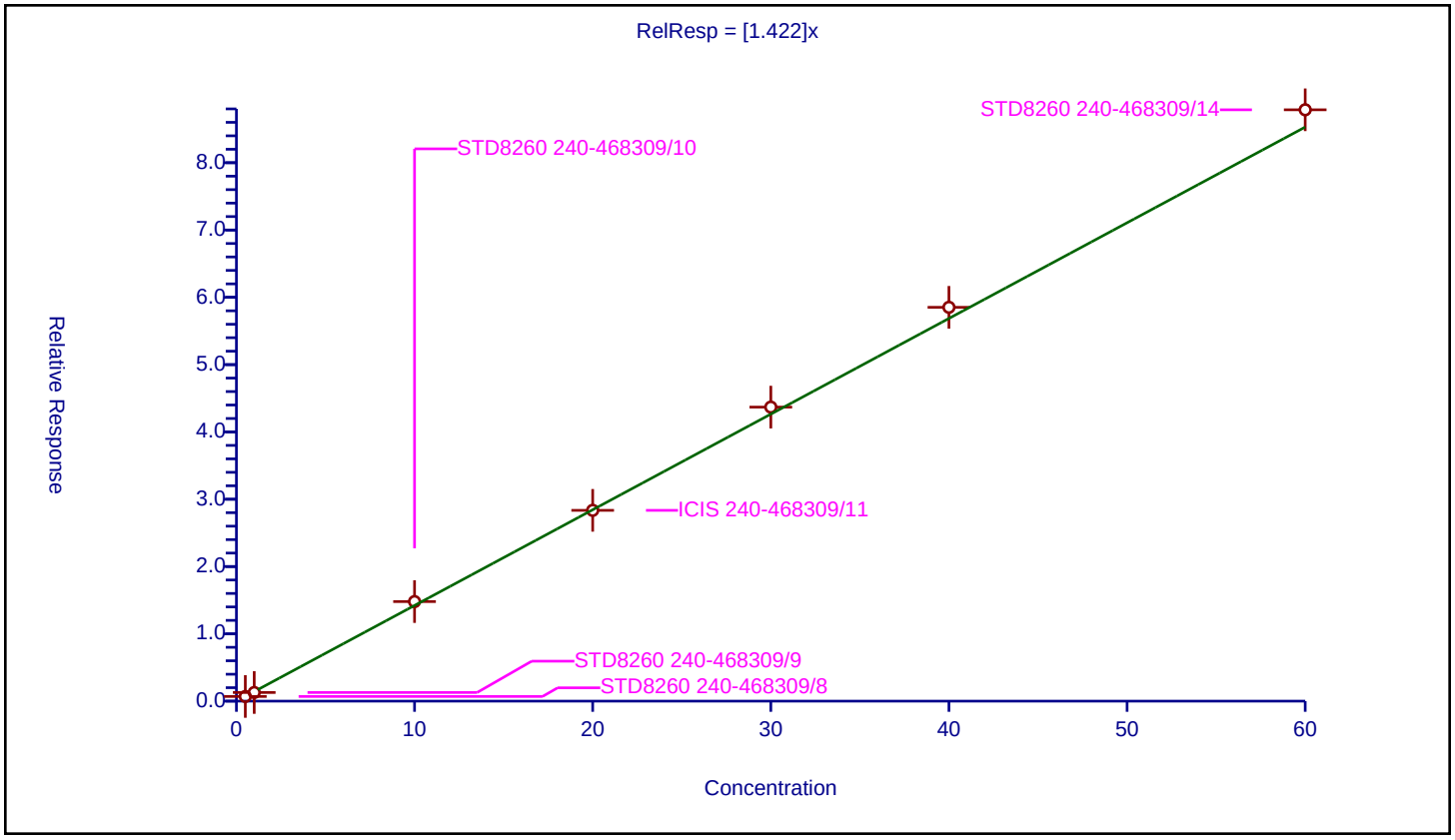
Curve Coefficients

Intercept:	0
Slope:	1.422

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	4.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.692861	20.0	394163.0	1.385721	Y
2	STD8260 240-468309/9	1.0	1.285056	20.0	410768.0	1.285056	Y
3	STD8260 240-468309/10	10.0	14.793264	20.0	433838.0	1.479326	Y
4	ICIS 240-468309/11	20.0	28.348771	20.0	476094.0	1.417439	Y
5	STD8260 240-468309/12	30.0	43.690129	20.0	479051.0	1.456338	Y
6	STD8260 240-468309/13	40.0	58.515283	20.0	515775.0	1.462882	Y
7	STD8260 240-468309/14	60.0	87.866149	20.0	503367.0	1.464436	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

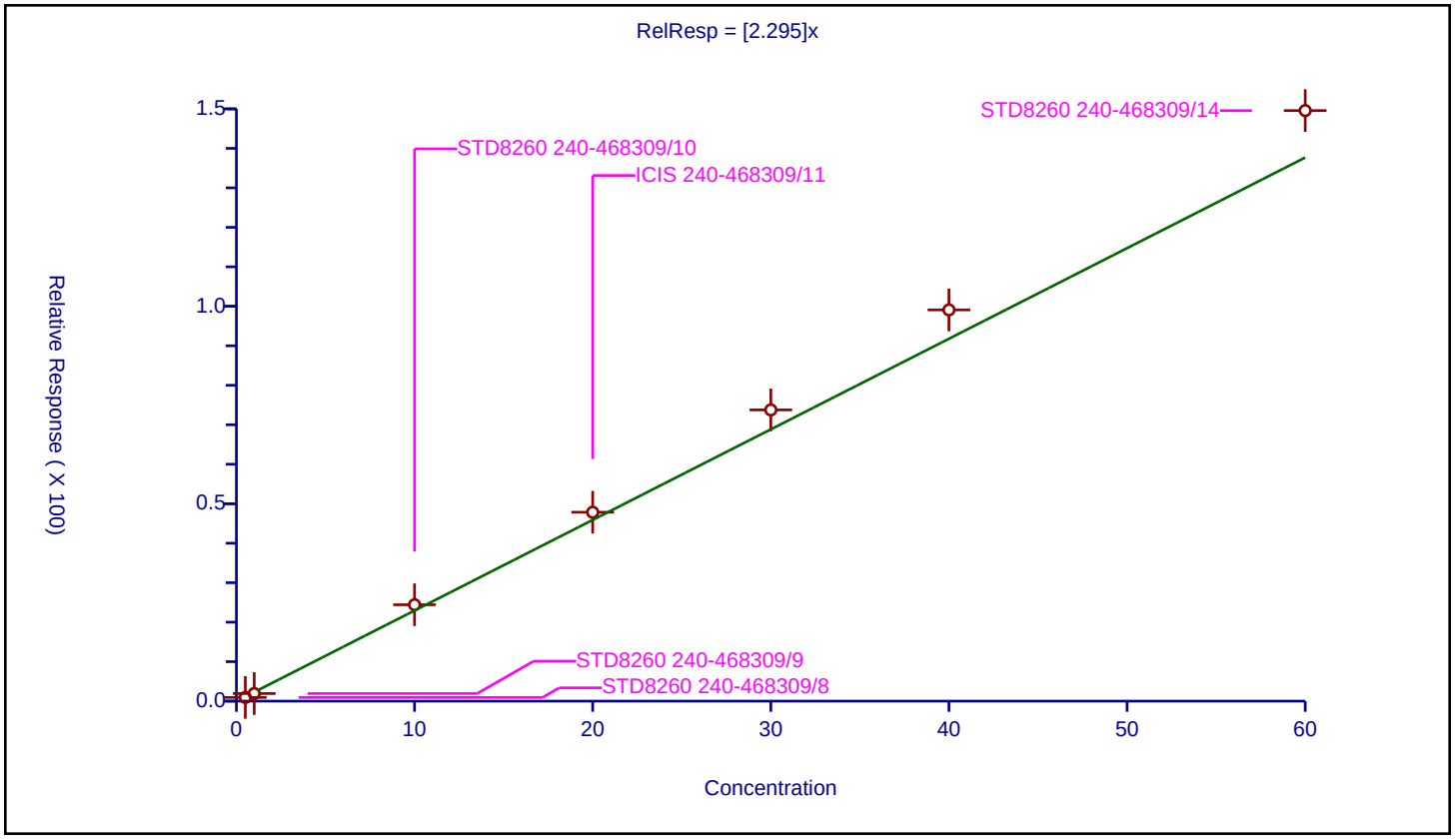
Curve Coefficients

Intercept:	0
Slope:	2.295

Error Coefficients

Standard Error:	2060000
Relative Standard Error:	11.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.937582	20.0	394163.0	1.875163	Y
2	STD8260 240-468309/9	1.0	1.923908	20.0	410768.0	1.923908	Y
3	STD8260 240-468309/10	10.0	24.415934	20.0	433838.0	2.441593	Y
4	ICIS 240-468309/11	20.0	47.846056	20.0	476094.0	2.392303	Y
5	STD8260 240-468309/12	30.0	73.759537	20.0	479051.0	2.458651	Y
6	STD8260 240-468309/13	40.0	99.093558	20.0	515775.0	2.477339	Y
7	STD8260 240-468309/14	60.0	149.570353	20.0	503367.0	2.492839	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

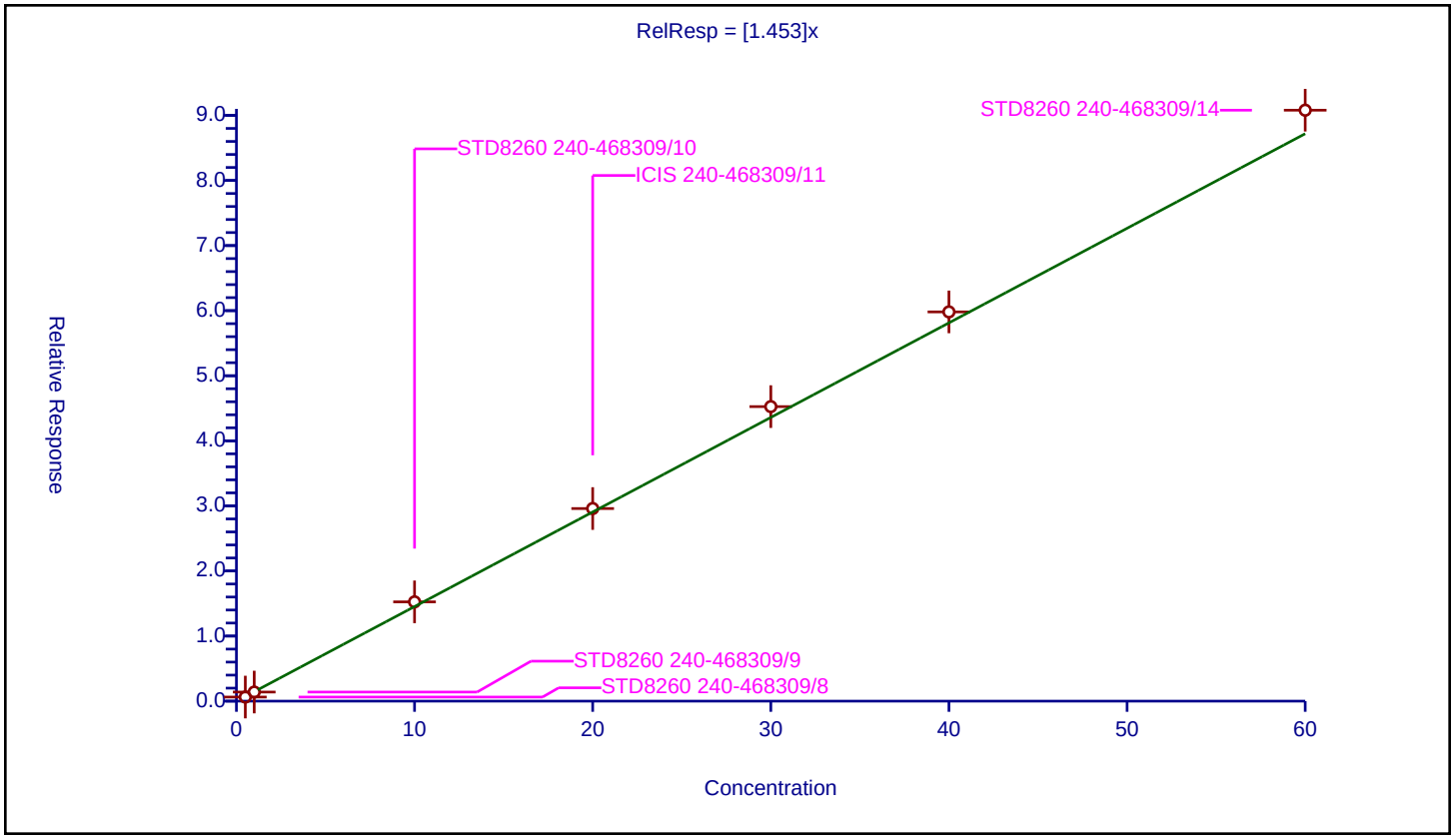
Curve Coefficients

Intercept:	0
Slope:	1.453

Error Coefficients

Standard Error:	1250000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.626543	20.0	394163.0	1.253086	Y
2	STD8260 240-468309/9	1.0	1.396409	20.0	410768.0	1.396409	Y
3	STD8260 240-468309/10	10.0	15.254911	20.0	433838.0	1.525491	Y
4	ICIS 240-468309/11	20.0	29.592223	20.0	476094.0	1.479611	Y
5	STD8260 240-468309/12	30.0	45.256392	20.0	479051.0	1.508546	Y
6	STD8260 240-468309/13	40.0	59.809917	20.0	515775.0	1.495248	Y
7	STD8260 240-468309/14	60.0	90.798523	20.0	503367.0	1.513309	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

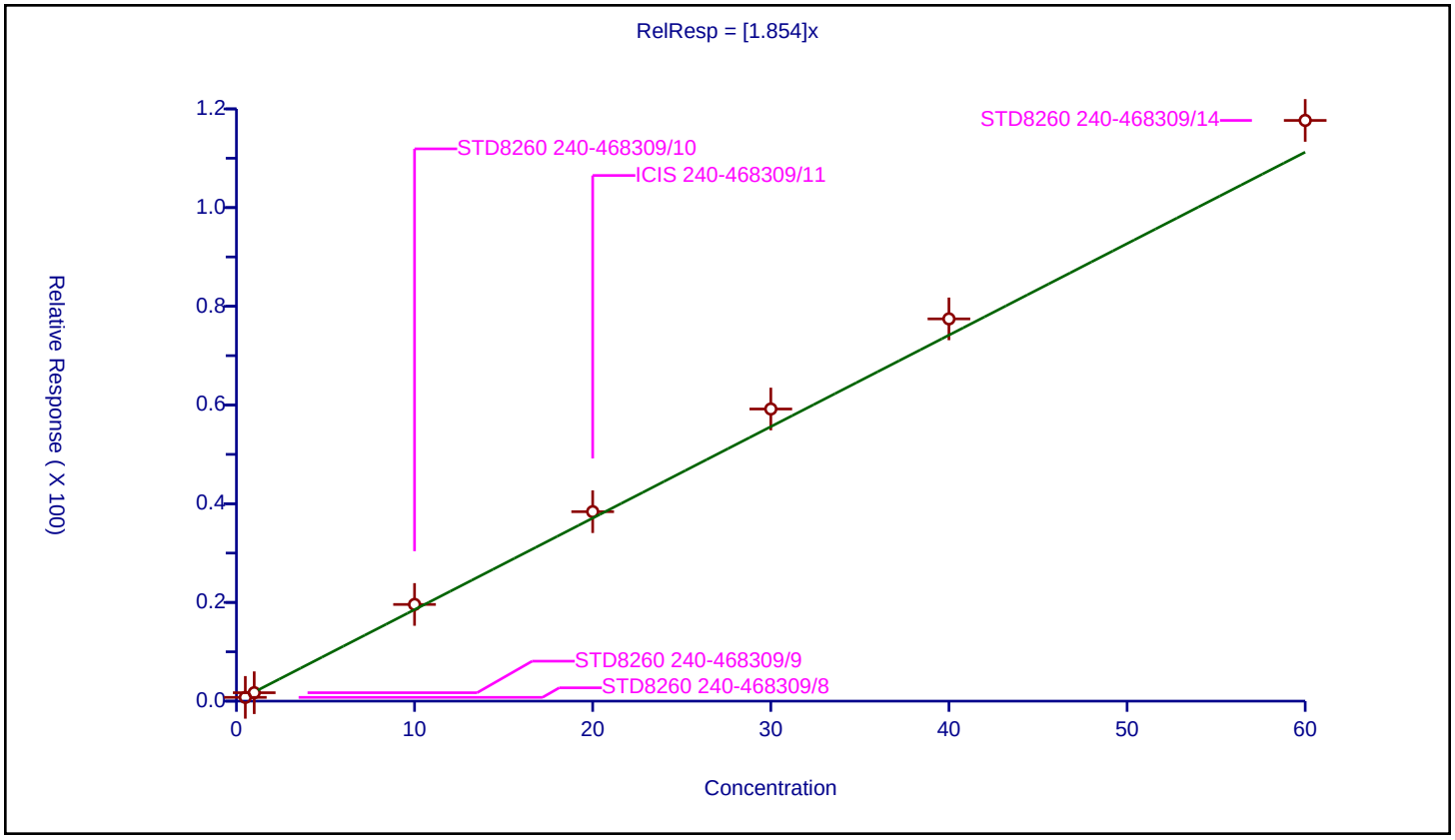
Curve Coefficients

Intercept:	0
Slope:	1.854

Error Coefficients

Standard Error:	1620000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.761157	20.0	394163.0	1.522314	Y
2	STD8260 240-468309/9	1.0	1.706316	20.0	410768.0	1.706316	Y
3	STD8260 240-468309/10	10.0	19.590677	20.0	433838.0	1.959068	Y
4	ICIS 240-468309/11	20.0	38.385823	20.0	476094.0	1.919291	Y
5	STD8260 240-468309/12	30.0	59.19328	20.0	479051.0	1.973109	Y
6	STD8260 240-468309/13	40.0	77.456371	20.0	515775.0	1.936409	Y
7	STD8260 240-468309/14	60.0	117.661468	20.0	503367.0	1.961024	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

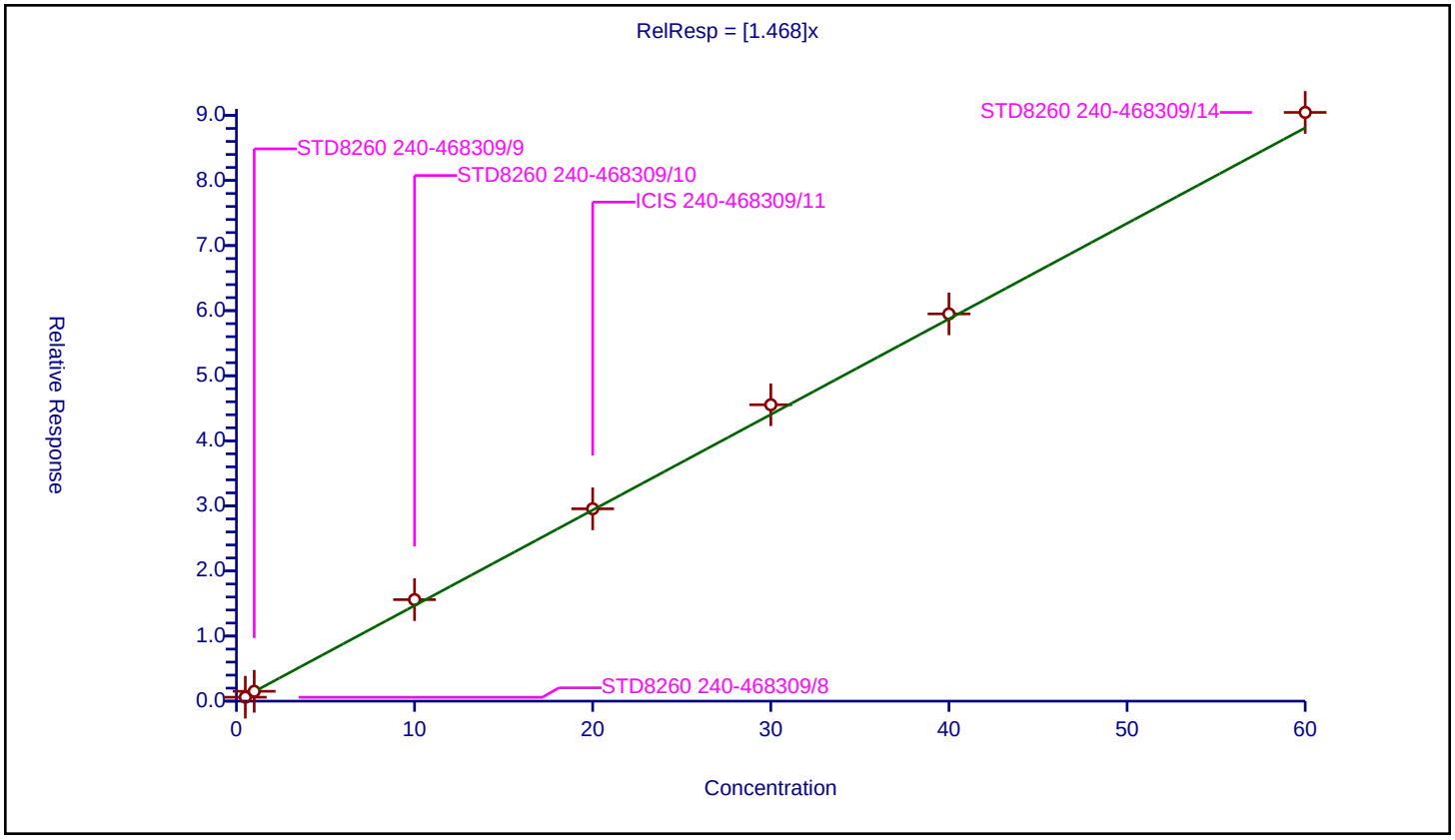
Curve Coefficients

Intercept:	0
Slope:	1.468

Error Coefficients

Standard Error:	1250000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.604116	20.0	394163.0	1.208231	Y
2	STD8260 240-468309/9	1.0	1.518083	20.0	410768.0	1.518083	Y
3	STD8260 240-468309/10	10.0	15.599002	20.0	433838.0	1.5599	Y
4	ICIS 240-468309/11	20.0	29.554458	20.0	476094.0	1.477723	Y
5	STD8260 240-468309/12	30.0	45.542458	20.0	479051.0	1.518082	Y
6	STD8260 240-468309/13	40.0	59.501953	20.0	515775.0	1.487549	Y
7	STD8260 240-468309/14	60.0	90.459804	20.0	503367.0	1.507663	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

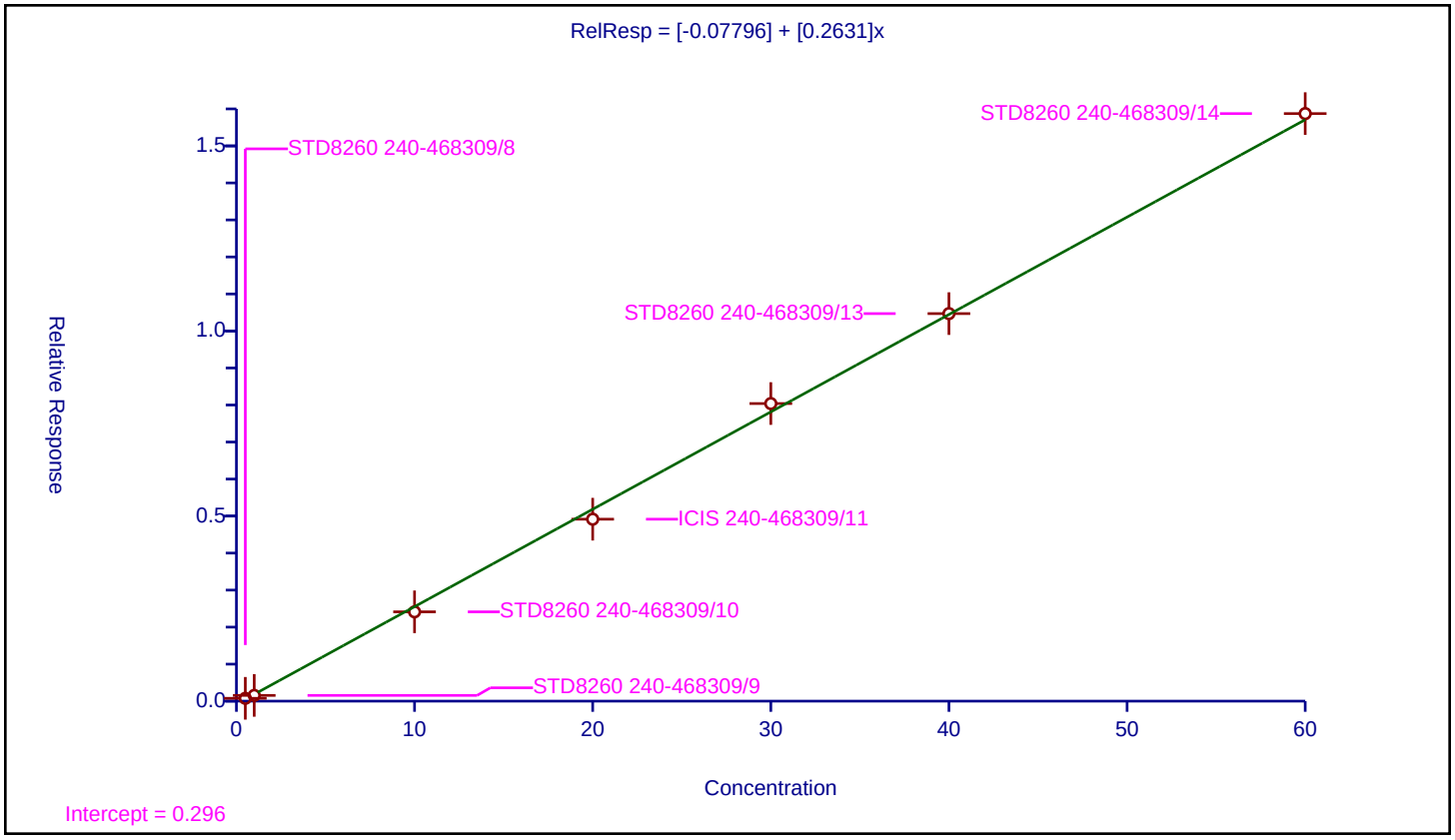
Curve Coefficients

Intercept:	-0.07796
Slope:	0.2631

Error Coefficients

Standard Error:	239000
Relative Standard Error:	10.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.07677	20.0	394163.0	0.153541	Y
2	STD8260 240-468309/9	1.0	0.15527	20.0	410768.0	0.15527	Y
3	STD8260 240-468309/10	10.0	2.413251	20.0	433838.0	0.241325	Y
4	ICIS 240-468309/11	20.0	4.915836	20.0	476094.0	0.245792	Y
5	STD8260 240-468309/12	30.0	8.039395	20.0	479051.0	0.26798	Y
6	STD8260 240-468309/13	40.0	10.469953	20.0	515775.0	0.261749	Y
7	STD8260 240-468309/14	60.0	15.872912	20.0	503367.0	0.264549	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

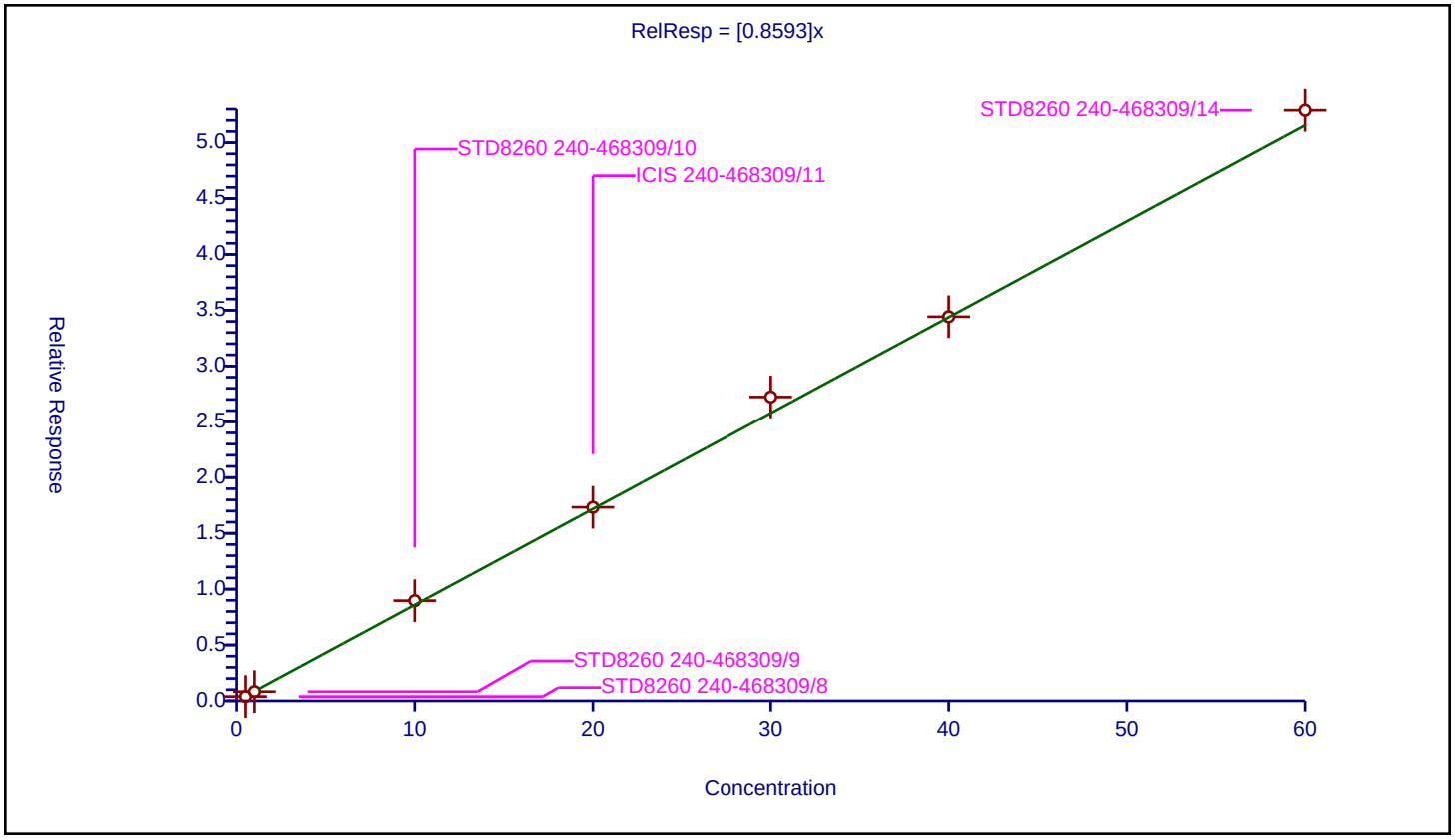
Curve Coefficients

Intercept:	0
Slope:	0.8593

Error Coefficients

Standard Error:	730000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.388114	20.0	394163.0	0.776227	Y
2	STD8260 240-468309/9	1.0	0.825332	20.0	410768.0	0.825332	Y
3	STD8260 240-468309/10	10.0	8.969569	20.0	433838.0	0.896957	Y
4	ICIS 240-468309/11	20.0	17.33435	20.0	476094.0	0.866717	Y
5	STD8260 240-468309/12	30.0	27.224033	20.0	479051.0	0.907468	Y
6	STD8260 240-468309/13	40.0	34.418729	20.0	515775.0	0.860468	Y
7	STD8260 240-468309/14	60.0	52.897786	20.0	503367.0	0.88163	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

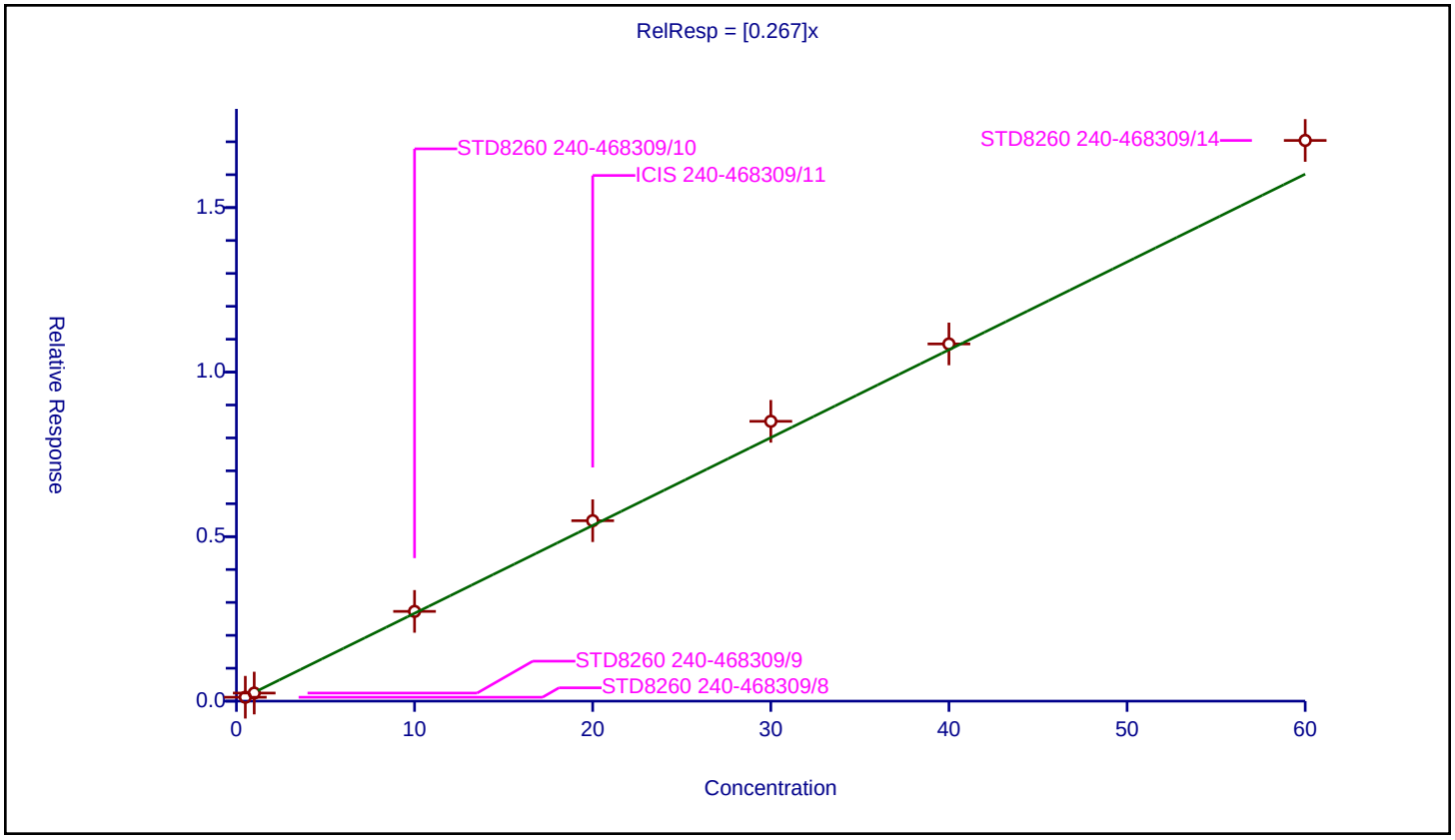
Curve Coefficients

Intercept:	0
Slope:	0.267

Error Coefficients

Standard Error:	233000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.118733	20.0	394163.0	0.237465	Y
2	STD8260 240-468309/9	1.0	0.245394	20.0	410768.0	0.245394	Y
3	STD8260 240-468309/10	10.0	2.72747	20.0	433838.0	0.272747	Y
4	ICIS 240-468309/11	20.0	5.484127	20.0	476094.0	0.274206	Y
5	STD8260 240-468309/12	30.0	8.504773	20.0	479051.0	0.283492	Y
6	STD8260 240-468309/13	40.0	10.856401	20.0	515775.0	0.27141	Y
7	STD8260 240-468309/14	60.0	17.041125	20.0	503367.0	0.284019	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

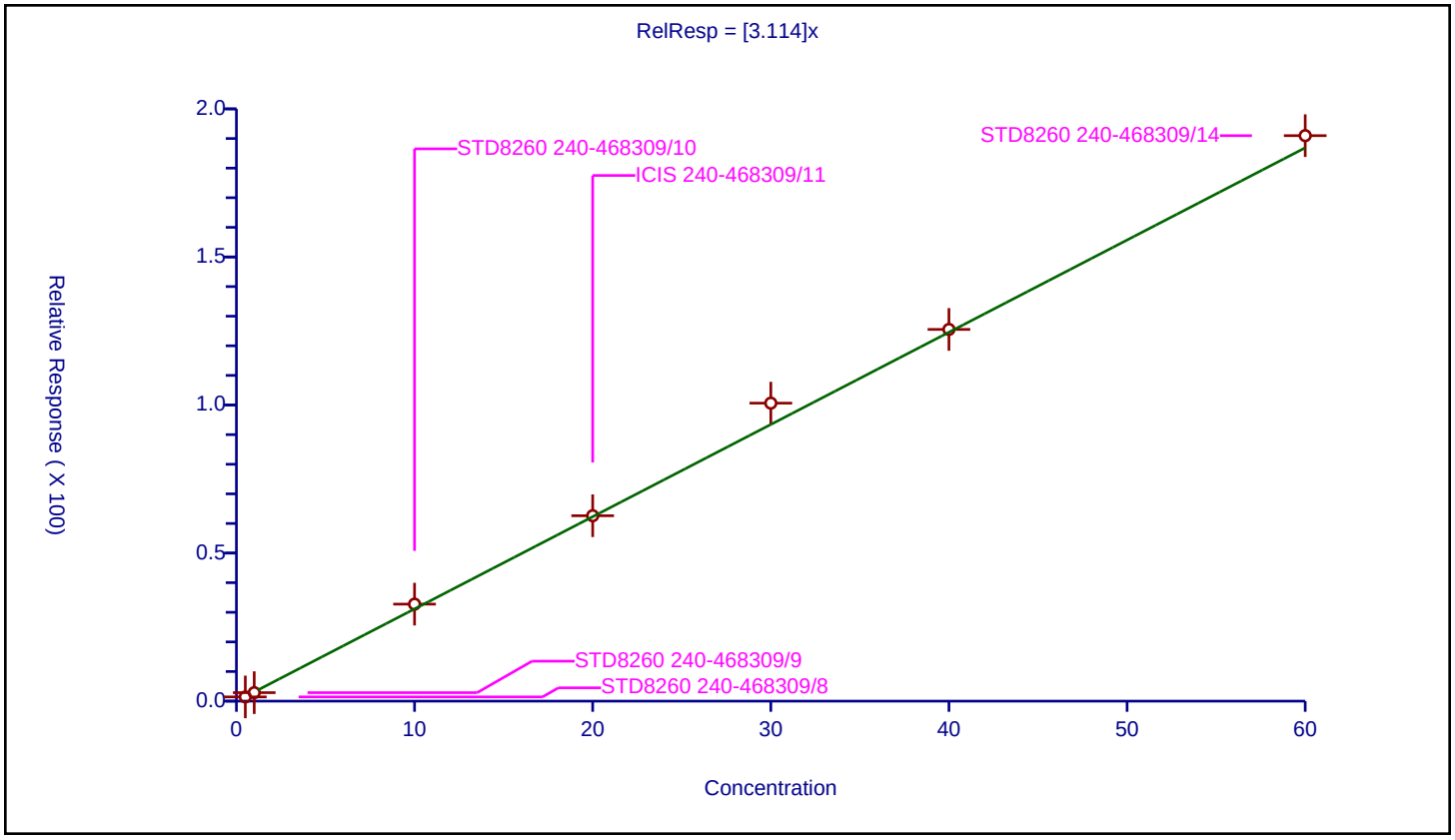
Curve Coefficients

Intercept:	0
Slope:	3.114

Error Coefficients

Standard Error:	2650000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	1.425958	20.0	394163.0	2.851917	Y
2	STD8260 240-468309/9	1.0	2.865754	20.0	410768.0	2.865754	Y
3	STD8260 240-468309/10	10.0	32.764673	20.0	433838.0	3.276467	Y
4	ICIS 240-468309/11	20.0	62.612635	20.0	476094.0	3.130632	Y
5	STD8260 240-468309/12	30.0	100.634713	20.0	479051.0	3.35449	Y
6	STD8260 240-468309/13	40.0	125.52741	20.0	515775.0	3.138185	Y
7	STD8260 240-468309/14	60.0	190.964247	20.0	503367.0	3.182737	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

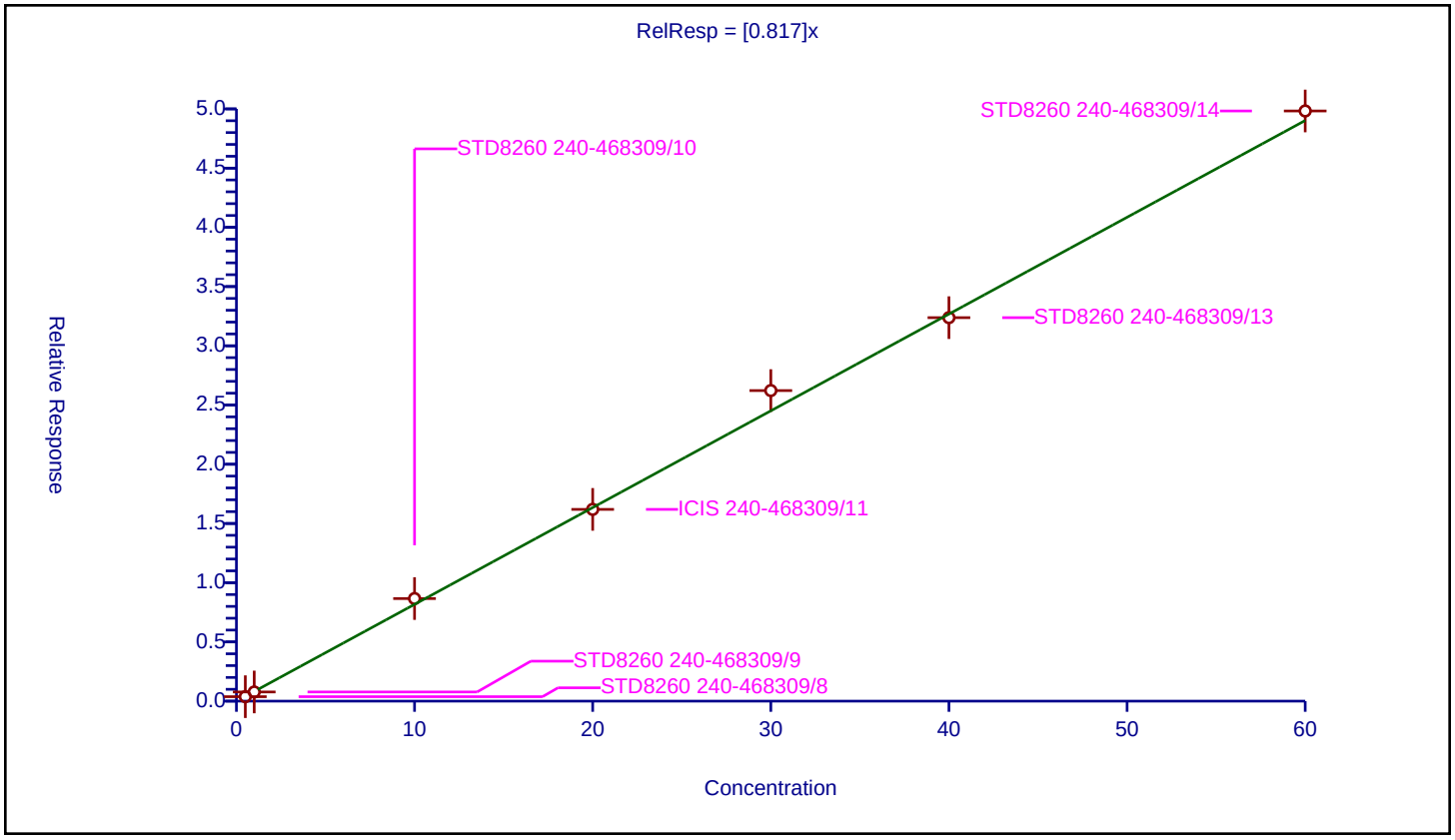
Curve Coefficients

Intercept:	0
Slope:	0.817

Error Coefficients

Standard Error:	689000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD8260 240-468309/8	0.5	0.377407	20.0	394163.0	0.754815	Y
2	STD8260 240-468309/9	1.0	0.774793	20.0	410768.0	0.774793	Y
3	STD8260 240-468309/10	10.0	8.660145	20.0	433838.0	0.866015	Y
4	ICIS 240-468309/11	20.0	16.189366	20.0	476094.0	0.809468	Y
5	STD8260 240-468309/12	30.0	26.22034	20.0	479051.0	0.874011	Y
6	STD8260 240-468309/13	40.0	32.3759	20.0	515775.0	0.809398	Y
7	STD8260 240-468309/14	60.0	49.824283	20.0	503367.0	0.830405	Y



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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 16:28 Calibration End Date: 01/07/2021 18:20 Calibration ID: 59895

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-468309/18	UX992609.D
Level 2	STDA9 240-468309/19	UX992610.D
Level 3	STDA9 240-468309/20	UX992611.D
Level 4	STDA9 240-468309/21	UX992612.D
Level 5	STDA9 240-468309/22	UX992613.D
Level 6	STDA9 240-468309/23	UX992614.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								
Acetonitrile	0.0263 +++++	0.0202	0.0314	0.0300	0.0243	Ave		0.0265				16.9		20.0			
Isopropyl ether	0.2688 0.2626	0.2636	0.2540	0.2604	0.2630	Ave		0.2621				1.8		20.0			
2-Chloro-1,3-butadiene	0.4133 0.4356	0.3979	0.4319	0.4421	0.4518	Ave		0.4288				4.6		20.0			
Tert-butyl ethyl ether	0.7708 0.8660	0.8736	0.8556	0.8751	0.8726	Ave		0.8523				4.8		20.0			
Ethyl acetate	0.3294 0.3097	0.2946	0.3456	0.3264	0.3068	Ave		0.3188				5.8		20.0			
Propionitrile	0.0422 0.0489	0.0367	0.0504	0.0464	0.0500	Ave		0.0458				11.8		20.0			
Methacrylonitrile	0.1991 0.2159	0.1920	0.2266	0.2177	0.2197	Ave		0.2118				6.3		20.0			
Isooctane	0.4020 0.5082	0.4232	0.4826	0.5243	0.5285	Ave		0.4781				11.2		20.0			
Tert-amyl methyl ether	0.9223 0.9795	0.8841	0.9292	0.9639	1.0060	Ave		0.9475				4.6		20.0			
n-Butanol	0.0069 0.0103	0.0090	0.0119	0.0111	0.0106	Ave		0.0100				18.0		20.0			
Ethyl acrylate	0.2599 0.3523	0.2832	0.3860	0.3689	0.3412	Ave		0.3319				15.0		20.0			
Methyl methacrylate	0.2150 0.2539	0.2092	0.2787	0.2632	0.2542	Ave		0.2457				11.2		20.0			
2-Nitropropane	0.0779 0.0971	0.0754	0.0930	0.0956	0.0916	Ave		0.0884				10.6		20.0			
n-Butyl acetate	0.4584 0.5605	0.5108	0.5884	0.5681	0.5674	Ave		0.5423				9.0		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 16:28 Calibration End Date: 01/07/2021 18:20 Calibration ID: 59895

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-Chlorohexane	0.4385 0.3930	0.3973	0.4266	0.4151	0.4278	Ave		0.4164				4.3		20.0			
Cyclohexanone	0.0225 0.0278	0.0258	0.0309	0.0296	0.0288	Ave		0.0276				11.0		20.0			
Pentachloroethane	+++++ 0.1478	0.1467	0.1037	0.1874	0.1196	Ave		0.1410				22.6	*	20.0			
1,2,3-Trimethylbenzene	2.2999 2.7170	2.2555	2.7100	2.7588	2.8462	Ave		2.5979				9.7		20.0			
Benzyl chloride	0.2002 0.3972	0.2891	0.3462	0.3776	0.3966	Lin1	-0.111	0.3937				6.2			0.9990		0.9900
1,3,5-Trichlorobenzene	0.8936 0.9859	0.8748	0.9436	0.9634	1.0232	Ave		0.9474				5.9		20.0			
2-Methylnaphthalene	1.1938 1.8359	1.1220	1.4706	1.6348	1.7643	Ave		1.5036				19.7		20.0			
1-Methylnaphthalene	1.0906 1.6735	1.1197	1.3999	1.5270	1.6099	Ave		1.4034				17.7		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: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 16:28 Calibration End Date: 01/07/2021 18:20 Calibration ID: 59895

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-468309/18	UX992609.D
Level 2	STDA9 240-468309/19	UX992610.D
Level 3	STDA9 240-468309/20	UX992611.D
Level 4	STDA9 240-468309/21	UX992612.D
Level 5	STDA9 240-468309/22	UX992613.D
Level 6	STDA9 240-468309/23	UX992614.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	6646 +++++	10118	169243	324433	518219	5.00 +++++	10.0	100	200	400
Isopropyl ether	FB	Ave	6791 895107	13173	137043	281555	560654	0.500 60.0	1.00	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	10441 1485000	19881	232973	477973	963074	0.500 60.0	1.00	10.0	20.0	40.0
Tert-butyl ethyl ether	FB	Ave	19471 2952358	43653	461574	946167	1860099	0.500 60.0	1.00	10.0	20.0	40.0
Ethyl acetate	FB	Ave	16642 2111686	29445	372891	705729	1307831	1.00 120	2.00	20.0	40.0	80.0
Propionitrile	FB	Ave	10663 1666987	18321	271820	501483	1065534	5.00 600	10.0	100	200	400
Methacrylonitrile	FB	Ave	50298 7360667	95934	1222376	2353652	4682755	5.00 600	10.0	100	200	400
Isooctane	FB	Ave	10154 1732383	21147	260328	566829	1126500	0.500 60.0	1.00	10.0	20.0	40.0
Tert-amyl methyl ether	FB	Ave	23297 3339047	44176	501252	1042135	2144398	0.500 60.0	1.00	10.0	20.0	40.0
n-Butanol	FB	Ave	4333 876320	11279	160325	300118	565771	12.5 1500	25.0	250	500	1000
Ethyl acrylate	FB	Ave	6564 1200864	14150	208210	398885	727347	0.500 60.0	1.00	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	10860 1730907	20904	300740	569235	1083841	1.00 120	2.00	20.0	40.0	80.0
2-Nitropropane	FB	Ave	3935 661768	7533	100371	206802	390629	1.00 120	2.00	20.0	40.0	80.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 16:28 Calibration End Date: 01/07/2021 18:20 Calibration ID: 59895

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Butyl acetate	CBNZ d5	Ave	8107 1380668	17544	236945	455644	856128	0.500 60.0	1.00	10.0	20.0	40.0
1-Chlorohexane	CBNZ d5	Ave	7755 967884	13645	171804	332946	645489	0.500 60.0	1.00	10.0	20.0	40.0
Cyclohexanone	DCBd 4	Ave	2289 367585	5154	66411	127436	235178	5.00 600	10.0	100	200	400
Pentachloroethane	DCBd 4	Ave	+++++ 391245	5850	44555	161121	195530	+++++ 120	2.00	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	23447 3595946	44975	582133	1186130	2325592	0.500 60.0	1.00	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Lin1	2041 525670	5764	74365	162365	324081	0.500 60.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	9110 1304793	17443	202693	414218	836036	0.500 60.0	1.00	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	24342 4859479	44746	631807	1405745	2883221	1.00 120	2.00	20.0	40.0	80.0
1-Methylnaphthalene	DCBd 4	Ave	22238 4429817	44655	601422	1313019	2630928	1.00 120	2.00	20.0	40.0	80.0

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1 Analy Batch No.: 468309

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2021 16:28 Calibration End Date: 01/07/2021 18:20 Calibration ID: 59895

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-468309/18	UX992609.D
Level 2	STDA9 240-468309/19	UX992610.D
Level 3	STDA9 240-468309/20	UX992611.D
Level 4	STDA9 240-468309/21	UX992612.D
Level 5	STDA9 240-468309/22	UX992613.D
Level 6	STDA9 240-468309/23	UX992614.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Benzyl chloride	7.4						50					

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992609.D
Lims ID: stdA9 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-Jan-2021 16:28:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-018
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:08:42 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:12:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.868	5.866	0.002	99	1010406	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.565	8.564	0.001	86	707480	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.814	10.812	0.002	96	407799	20.0	20.0	
27 Acetonitrile	41	3.584	3.593	-0.009	94	6646	5.00	4.97	
38 Isopropyl ether	87	4.424	4.422	0.002	87	6791	0.5000	0.5129	
39 2-Chloro-1,3-butadiene	53	4.460	4.457	0.003	91	10441	0.5000	0.4820	
40 Tert-butyl ethyl ether	59	4.744	4.741	0.003	93	19471	0.5000	0.4522	
44 Ethyl acetate	43	4.921	4.919	0.002	98	16642	1.00	1.03	
45 Propionitrile	54	4.921	4.919	0.002	80	10663	5.00	4.61	
46 Methacrylonitrile	41	5.051	5.049	0.002	92	50298	5.00	4.70	
163 Isooctane	57	5.714	5.700	0.014	58	10154	0.5000	0.4204	
57 Tert-amyl methyl ether	73	5.714	5.723	-0.009	94	23297	0.5000	0.4867	
59 n-Butanol	56	6.081	6.066	0.015	84	4333	12.5	8.61	
61 Ethyl acrylate	55	6.246	6.244	0.002	95	6564	0.5000	0.3915	
64 Methyl methacrylate	41	6.447	6.445	0.002	92	10860	1.00	0.8749	
68 2-Nitropropane	41	6.791	6.788	0.003	98	3935	1.00	0.8807	
81 n-Butyl acetate	43	7.974	7.971	0.003	91	8107	0.5000	0.4226	
84 1-Chlorohexane	91	8.554	8.551	0.003	33	7755	0.5000	0.5265	
93 Cyclohexanone	55	9.619	9.616	0.003	88	2289	5.00	4.07	
105 Pentachloroethane	167		10.445				ND	ND	
111 1,2,3-Trimethylbenzene	105	10.885	10.882	0.003	96	23447	0.5000	0.4426	
112 Benzyl chloride	126	10.956	10.965	-0.009	96	2041	0.5000	0.5369	
116 1,3,5-Trichlorobenzene	180	12.198	12.196	0.002	91	9110	0.5000	0.4716	
121 2-Methylnaphthalene	142	14.506	14.503	0.003	93	24342	1.00	0.7940	
162 1-Methylnaphthalene	142	14.778	14.775	0.003	93	22238	1.00	0.7771	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vmra9w_00374	Amount Added:	0.40	Units: uL

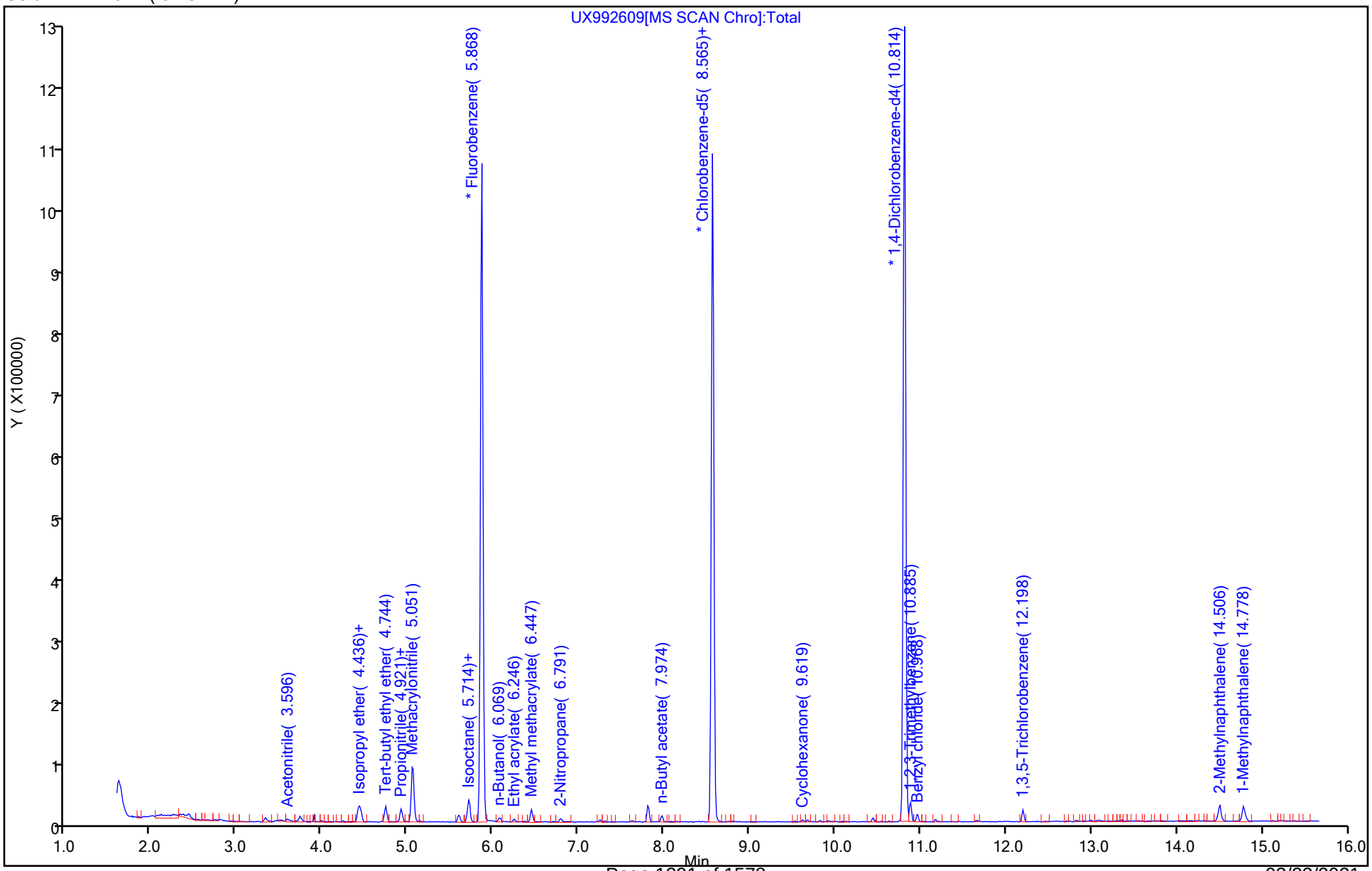
Report Date: 08-Jan-2021 14:08:42 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992609.D

Injection Date:	07-Jan-2021 16:28:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	stdA9 L1			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992610.D
Lims ID: stdA9 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-Jan-2021 16:51:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-019
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:08:44 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:00:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.864	5.866	-0.002	99	999331	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.562	8.564	-0.002	87	686864	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.810	10.812	-0.002	96	398811	20.0	20.0	
27 Acetonitrile	41	3.604	3.593	0.011	98	10118	10.0	7.66	
38 Isopropyl ether	87	4.421	4.422	-0.001	90	13173	1.00	1.01	
39 2-Chloro-1,3-butadiene	53	4.456	4.457	-0.001	95	19881	1.00	0.9280	
40 Tert-butyl ethyl ether	59	4.740	4.741	-0.001	95	43653	1.00	1.03	
44 Ethyl acetate	43	4.918	4.919	-0.001	98	29445	2.00	1.85	
45 Propionitrile	54	4.918	4.919	-0.001	68	18321	10.0	8.01	
46 Methacrylonitrile	41	5.059	5.049	0.010	92	95934	10.0	9.06	
163 Isooctane	57	5.710	5.700	0.010	94	21147	1.00	0.8852	
57 Tert-amyl methyl ether	73	5.722	5.723	-0.001	95	44176	1.00	0.9331	
59 n-Butanol	56	6.077	6.066	0.011	86	11279	25.0	22.7	
61 Ethyl acrylate	55	6.243	6.244	-0.001	97	14150	1.00	0.8532	
64 Methyl methacrylate	41	6.444	6.445	-0.001	82	20904	2.00	1.70	
68 2-Nitropropane	41	6.787	6.788	-0.001	98	7533	2.00	1.70	
81 n-Butyl acetate	43	7.970	7.971	-0.001	96	17544	1.00	0.9421	
84 1-Chlorohexane	91	8.550	8.551	-0.001	92	13645	1.00	0.9542	
93 Cyclohexanone	55	9.615	9.616	-0.001	84	5154	10.0	9.38	
105 Pentachloroethane	167	10.443	10.445	-0.002	79	5850	2.00	2.08	
111 1,2,3-Trimethylbenzene	105	10.881	10.882	-0.001	96	44975	1.00	0.8682	
112 Benzyl chloride	126	10.964	10.965	-0.001	98	5764	1.00	1.02	
116 1,3,5-Trichlorobenzene	180	12.195	12.196	-0.001	94	17443	1.00	0.9233	
121 2-Methylnaphthalene	142	14.490	14.503	-0.013	90	44746	2.00	1.49	
162 1-Methylnaphthalene	142	14.786	14.775	0.011	91	44655	2.00	1.60	

QC Flag Legend

Processing Flags

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vmra9w_00374	Amount Added:	0.80	Units: uL

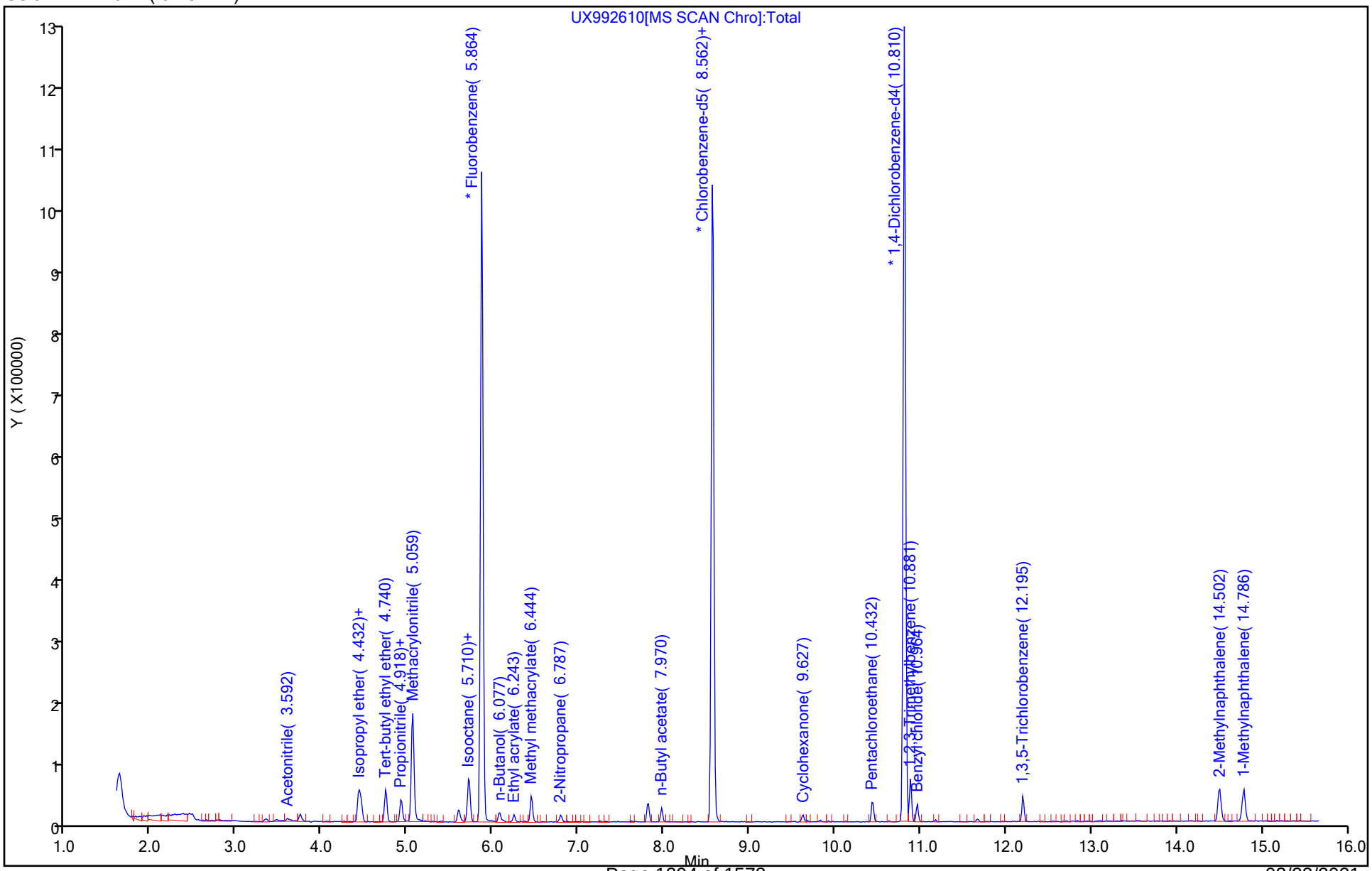
Report Date: 08-Jan-2021 14:08:45 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992610.D

Injection Date:	07-Jan-2021 16:51:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	stdA9 L2			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992611.D
Lims ID: stdA9 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-Jan-2021 17:13:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-020
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:08:47 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:12:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.867	5.866	0.001	99	1078898	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.565	8.564	0.001	86	805452	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.814	10.812	0.002	96	429621	20.0	20.0	
27 Acetonitrile	41	3.596	3.593	0.003	99	169243	100.0	118.6	
38 Isopropyl ether	87	4.424	4.422	0.002	91	137043	10.0	9.69	
39 2-Chloro-1,3-butadiene	53	4.448	4.457	-0.009	93	232973	10.0	10.1	
40 Tert-butyl ethyl ether	59	4.743	4.741	0.002	96	461574	10.0	10.0	
44 Ethyl acetate	43	4.921	4.919	0.002	99	372891	20.0	21.7	
45 Propionitrile	54	4.921	4.919	0.002	72	271820	100.0	110.1	
46 Methacrylonitrile	41	5.051	5.049	0.002	91	1222376	100.0	107.0	
163 Isooctane	57	5.702	5.700	0.002	96	260328	10.0	10.1	
57 Tert-amyl methyl ether	73	5.714	5.723	-0.009	95	501252	10.0	9.81	
59 n-Butanol	56	6.069	6.066	0.003	88	160325	250.0	298.3	
61 Ethyl acrylate	55	6.246	6.244	0.002	99	208210	10.0	11.6	
64 Methyl methacrylate	41	6.447	6.445	0.002	86	300740	20.0	22.7	
68 2-Nitropropane	41	6.790	6.788	0.002	100	100371	20.0	21.0	
81 n-Butyl acetate	43	7.962	7.971	-0.009	98	236945	10.0	10.8	
84 1-Chlorohexane	91	8.553	8.551	0.002	94	171804	10.0	10.2	
93 Cyclohexanone	55	9.618	9.616	0.002	91	66411	100.0	112.1	
105 Pentachloroethane	167	10.447	10.445	0.002	86	44555	20.0	14.7	
111 1,2,3-Trimethylbenzene	105	10.885	10.882	0.003	98	582133	10.0	10.4	
112 Benzyl chloride	126	10.967	10.965	0.002	99	74365	10.0	9.08	
116 1,3,5-Trichlorobenzene	180	12.198	12.196	0.002	96	202693	10.0	9.96	
121 2-Methylnaphthalene	142	14.494	14.503	-0.009	91	631807	20.0	19.6	
162 1-Methylnaphthalene	142	14.778	14.775	0.003	93	601422	20.0	19.9	

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vmra9w_00374	Amount Added:	8.00	Units: uL

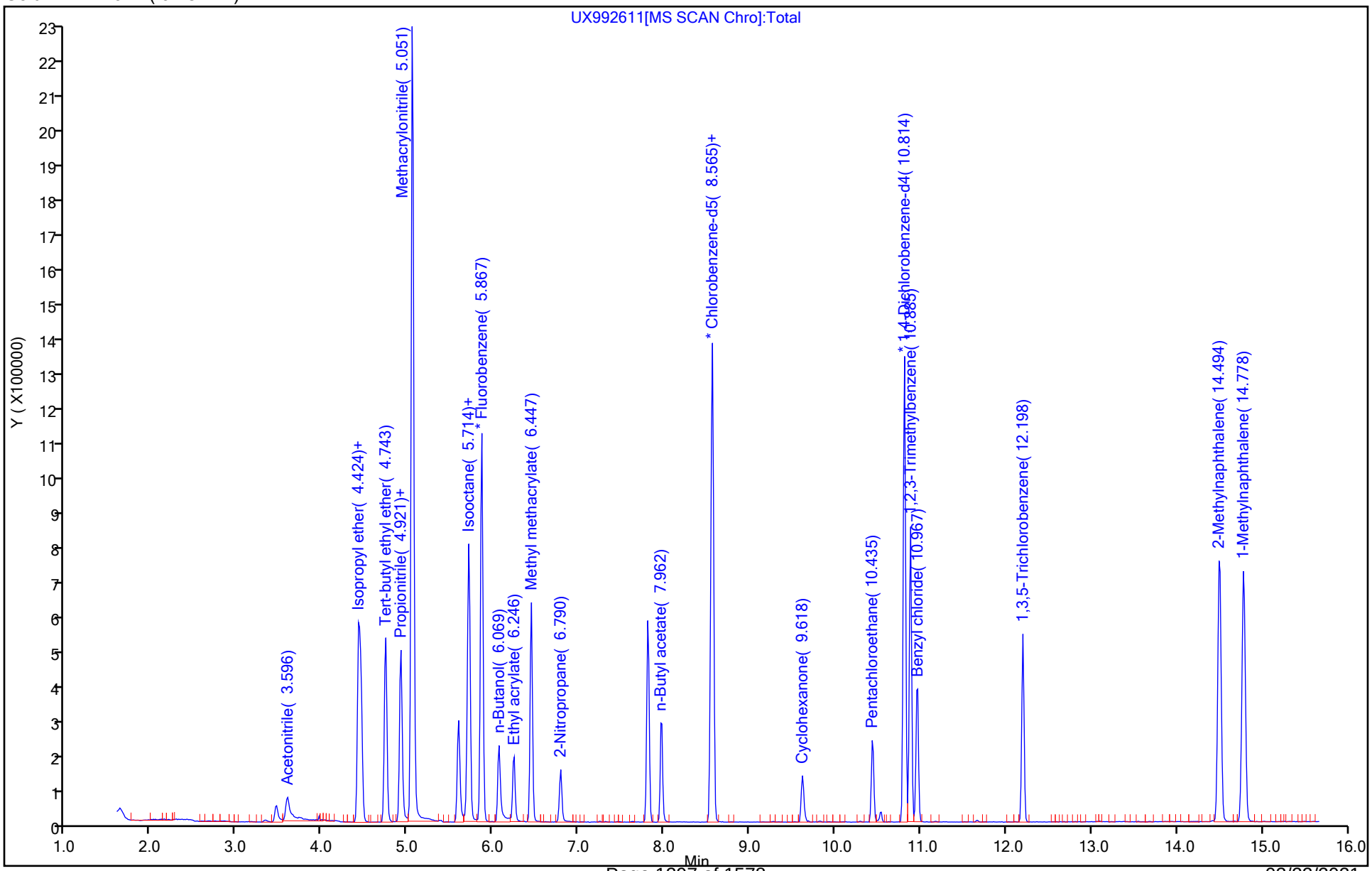
Report Date: 08-Jan-2021 14:08:48 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992611.D

Injection Date:	07-Jan-2021 17:13:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	stdA9 L3			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992612.D
Lims ID: stdA9 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 07-Jan-2021 17:36:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-021
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:08:50 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:12:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.865	5.865	0.000	99	1081201	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.563	8.563	0.000	87	802089	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.811	0.000	96	429945	20.0	20.0	
27 Acetonitrile	41	3.593	3.593	0.000	99	324433	200.0	226.9	
38 Isopropyl ether	87	4.422	4.422	0.000	91	281555	20.0	19.9	
39 2-Chloro-1,3-butadiene	53	4.457	4.457	0.000	93	477973	20.0	20.6	
40 Tert-butyl ethyl ether	59	4.741	4.741	0.000	96	946167	20.0	20.5	
44 Ethyl acetate	43	4.919	4.919	0.000	99	705729	40.0	41.0	
45 Propionitrile	54	4.919	4.919	0.000	70	501483	200.0	202.7	
46 Methacrylonitrile	41	5.049	5.049	0.000	92	2353652	200.0	205.5	
163 Isooctane	57	5.700	5.700	0.000	98	566829	20.0	21.9	
57 Tert-amyl methyl ether	73	5.723	5.723	0.000	96	1042135	20.0	20.3	
59 n-Butanol	56	6.066	6.066	0.000	86	300118	500.0	557.2	
61 Ethyl acrylate	55	6.244	6.244	0.000	99	398885	20.0	22.2	
64 Methyl methacrylate	41	6.445	6.445	0.000	86	569235	40.0	42.9	
68 2-Nitropropane	41	6.788	6.788	0.000	100	206802	40.0	43.3	
81 n-Butyl acetate	43	7.971	7.971	0.000	98	455644	20.0	21.0	
84 1-Chlorohexane	91	8.551	8.551	0.000	94	332946	20.0	19.9	
93 Cyclohexanone	55	9.616	9.616	0.000	92	127436	200.0	215.0	
105 Pentachloroethane	167	10.445	10.445	0.000	88	161121	40.0	53.1	
111 1,2,3-Trimethylbenzene	105	10.882	10.882	0.000	98	1186130	20.0	21.2	
112 Benzyl chloride	126	10.965	10.965	0.000	99	162365	20.0	19.5	
116 1,3,5-Trichlorobenzene	180	12.196	12.196	0.000	97	414218	20.0	20.3	
121 2-Methylnaphthalene	142	14.503	14.503	0.000	92	1405745	40.0	43.5	
162 1-Methylnaphthalene	142	14.775	14.775	0.000	93	1313019	40.0	43.5	

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vmra9w_00374	Amount Added:	16.00	Units: uL

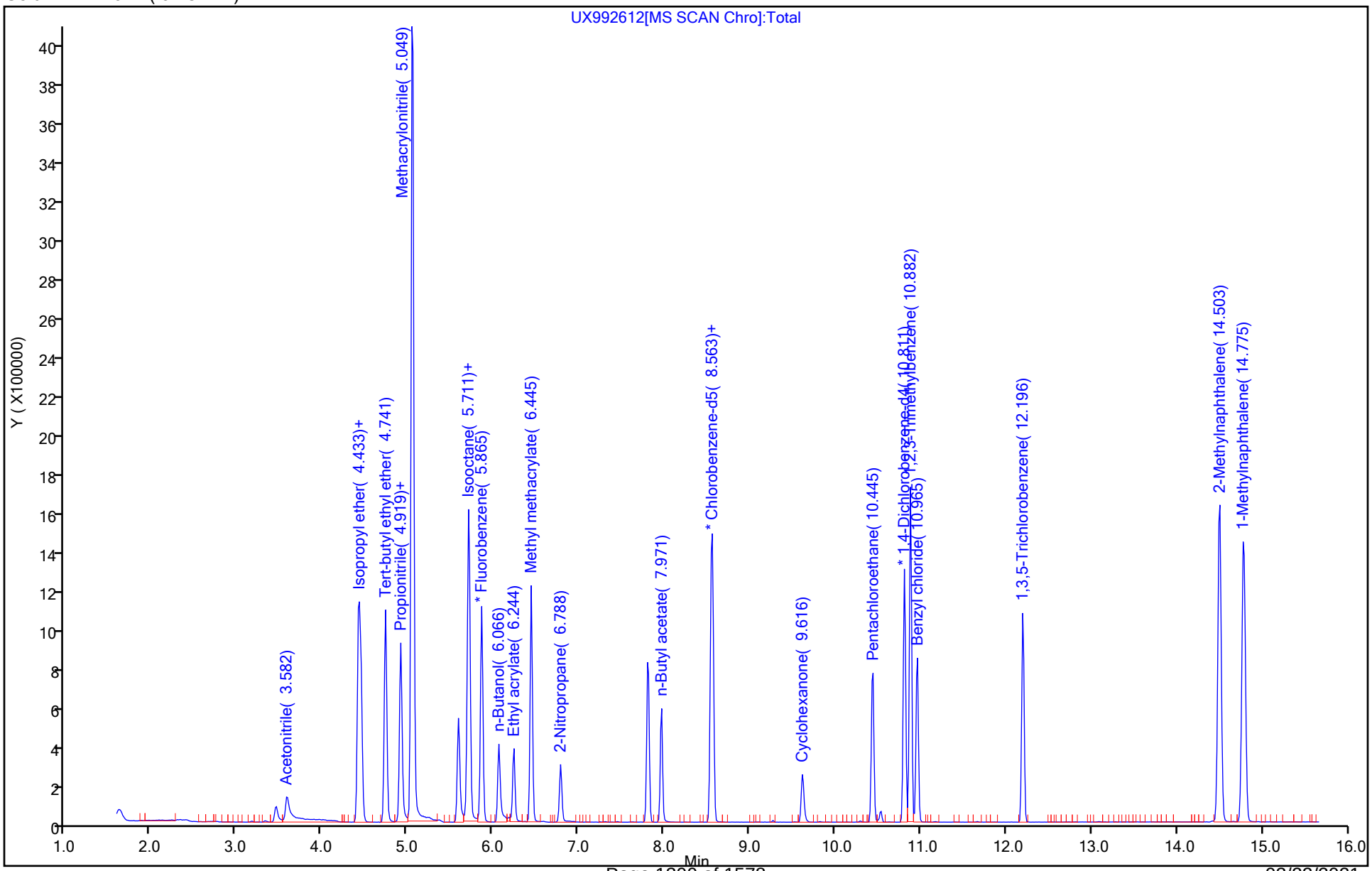
Report Date: 08-Jan-2021 14:08:50 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992612.D

Injection Date:	07-Jan-2021 17:36:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	stdA9 L4			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992613.D
Lims ID: stdA9 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 07-Jan-2021 17:58:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-022
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:08:52 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:13:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.865	5.865	-0.001	99	1065781	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.574	8.563	0.011	87	754380	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.811	0.000	95	408550	20.0	20.0	
27 Acetonitrile	41	3.593	3.593	0.000	100	518219	400.0	367.7	
38 Isopropyl ether	87	4.421	4.422	-0.001	91	560654	40.0	40.1	
39 2-Chloro-1,3-butadiene	53	4.456	4.457	-0.001	93	963074	40.0	42.2	
40 Tert-butyl ethyl ether	59	4.740	4.741	-0.001	96	1860099	40.0	41.0	
44 Ethyl acetate	43	4.918	4.919	-0.001	99	1307831	80.0	77.0	
45 Propionitrile	54	4.918	4.919	-0.001	89	1065534	400.0	437.0	
46 Methacrylonitrile	41	5.060	5.049	0.011	91	4682755	400.0	414.8	
163 Isooctane	57	5.711	5.700	0.011	96	1126500	40.0	44.2	
57 Tert-amyl methyl ether	73	5.723	5.723	0.000	96	2144398	40.0	42.5	
59 n-Butanol	56	6.066	6.066	0.000	87	565771	1000.0	1065.6	
61 Ethyl acrylate	55	6.243	6.244	-0.001	99	727347	40.0	41.1	
64 Methyl methacrylate	41	6.444	6.445	-0.001	87	1083841	80.0	82.8	
68 2-Nitropropane	41	6.787	6.788	-0.001	99	390629	80.0	82.9	
81 n-Butyl acetate	43	7.971	7.971	0.000	98	856128	40.0	41.9	
84 1-Chlorohexane	91	8.551	8.551	0.000	93	645489	40.0	41.1	
93 Cyclohexanone	55	9.616	9.616	0.000	91	235178	400.0	417.6	
105 Pentachloroethane	167	10.444	10.445	-0.001	89	195530	80.0	67.9	
111 1,2,3-Trimethylbenzene	105	10.882	10.882	0.000	98	2325592	40.0	43.8	
112 Benzyl chloride	126	10.964	10.965	-0.001	99	324081	40.0	40.6	
116 1,3,5-Trichlorobenzene	180	12.195	12.196	-0.001	97	836036	40.0	43.2	
121 2-Methylnaphthalene	142	14.502	14.503	-0.001	93	2883221	80.0	93.9	
162 1-Methylnaphthalene	142	14.786	14.775	0.011	93	2630928	80.0	91.8	

QC Flag Legend
Processing Flags

Reagents:

vm100is_stk_a_00006	Amount Added: 1.00	Units: uL
vmra9w_00374	Amount Added: 32.00	Units: uL

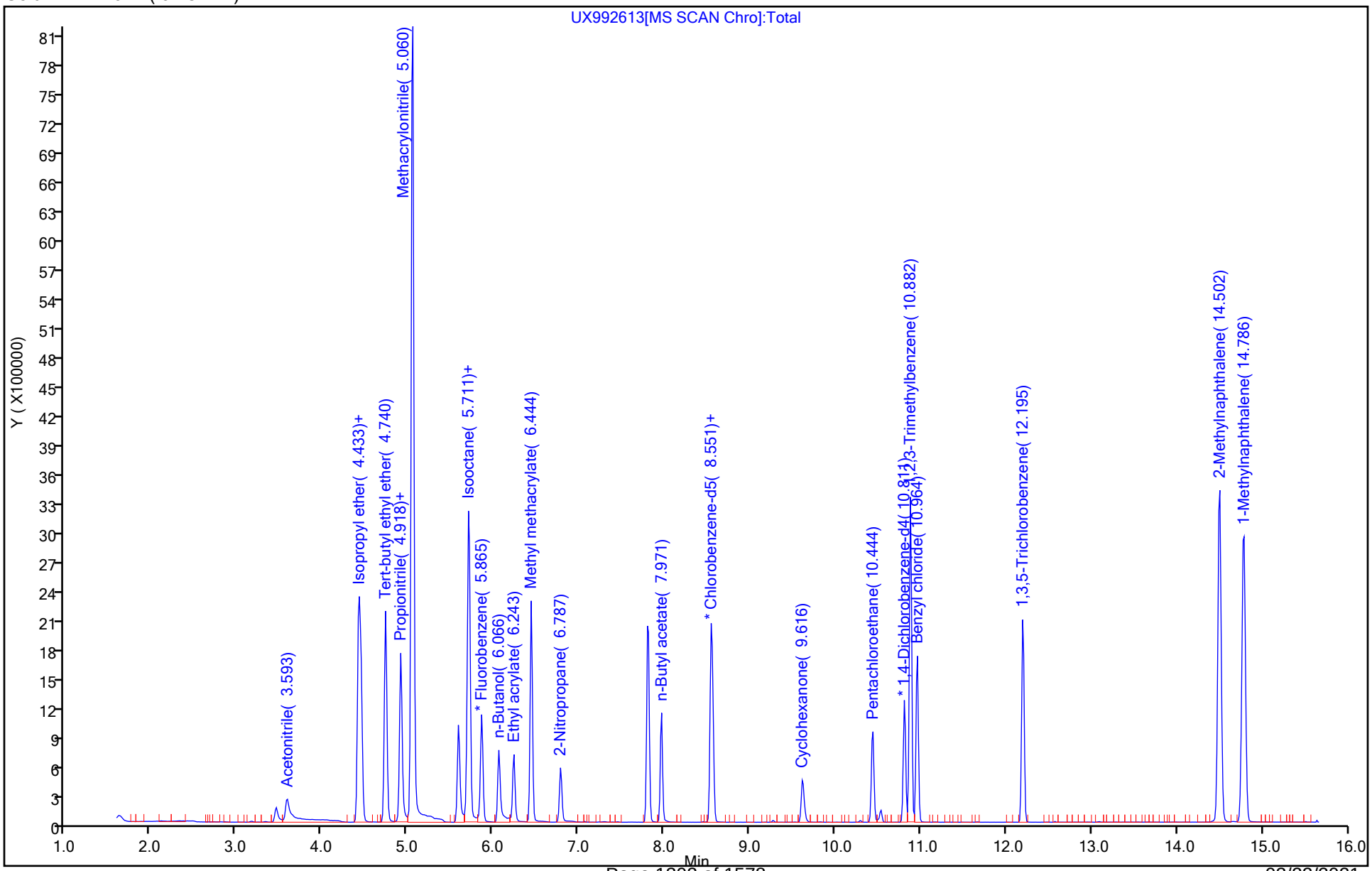
Report Date: 08-Jan-2021 14:08:53 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992613.D

Injection Date:	07-Jan-2021 17:58:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	stdA9 L5			Worklist Smp#:	22
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D
Lims ID: stdA9 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 07-Jan-2021 18:20:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-023
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:08:55 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:14:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.867	5.865	0.002	99	1136354	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.565	8.563	0.002	86	821037	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.813	10.811	0.002	96	441160	20.0	20.0	
27 Acetonitrile	41		3.593				ND	ND	U
38 Isopropyl ether	87	4.423	4.422	0.001	91	895107	60.0	60.1	
39 2-Chloro-1,3-butadiene	53	4.447	4.457	-0.010	93	1485000	60.0	61.0	
40 Tert-butyl ethyl ether	59	4.743	4.741	0.002	95	2952358	60.0	61.0	
44 Ethyl acetate	43	4.920	4.919	0.001	99	2111686	120.0	116.6	
45 Propionitrile	54	4.920	4.919	0.001	69	1666987	600.0	641.2	
46 Methacrylonitrile	41	5.050	5.049	0.001	92	7360667	600.0	611.6	
163 Isooctane	57	5.701	5.700	0.001	96	1732383	60.0	63.8	
57 Tert-amyl methyl ether	73	5.713	5.723	-0.010	96	3339047	60.0	62.0	
59 n-Butanol	56	6.068	6.066	0.002	87	876320	1500.0	1548.0	
61 Ethyl acrylate	55	6.246	6.244	0.002	99	1200864	60.0	63.7	
64 Methyl methacrylate	41	6.447	6.445	0.002	86	1730907	120.0	124.0	
68 2-Nitropropane	41	6.790	6.788	0.002	100	661768	120.0	131.7	
81 n-Butyl acetate	43	7.973	7.971	0.002	98	1380668	60.0	62.0	
84 1-Chlorohexane	91	8.553	8.551	0.002	93	967884	60.0	56.6	
93 Cyclohexanone	55	9.618	9.616	0.002	91	367585	600.0	604.5	
105 Pentachloroethane	167	10.434	10.445	-0.011	90	391245	120.0	125.8	
111 1,2,3-Trimethylbenzene	105	10.884	10.882	0.002	98	3595946	60.0	62.8	
112 Benzyl chloride	126	10.967	10.965	0.002	99	525670	60.0	60.8	
116 1,3,5-Trichlorobenzene	180	12.197	12.196	0.001	97	1304793	60.0	62.4	
121 2-Methylnaphthalene	142	14.505	14.503	0.002	93	4859479	120.0	146.5	
162 1-Methylnaphthalene	142	14.777	14.775	0.002	93	4429817	120.0	143.1	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Review Flags
U - Marked Undetected

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vmra9w_00374	Amount Added:	48.00	Units: uL

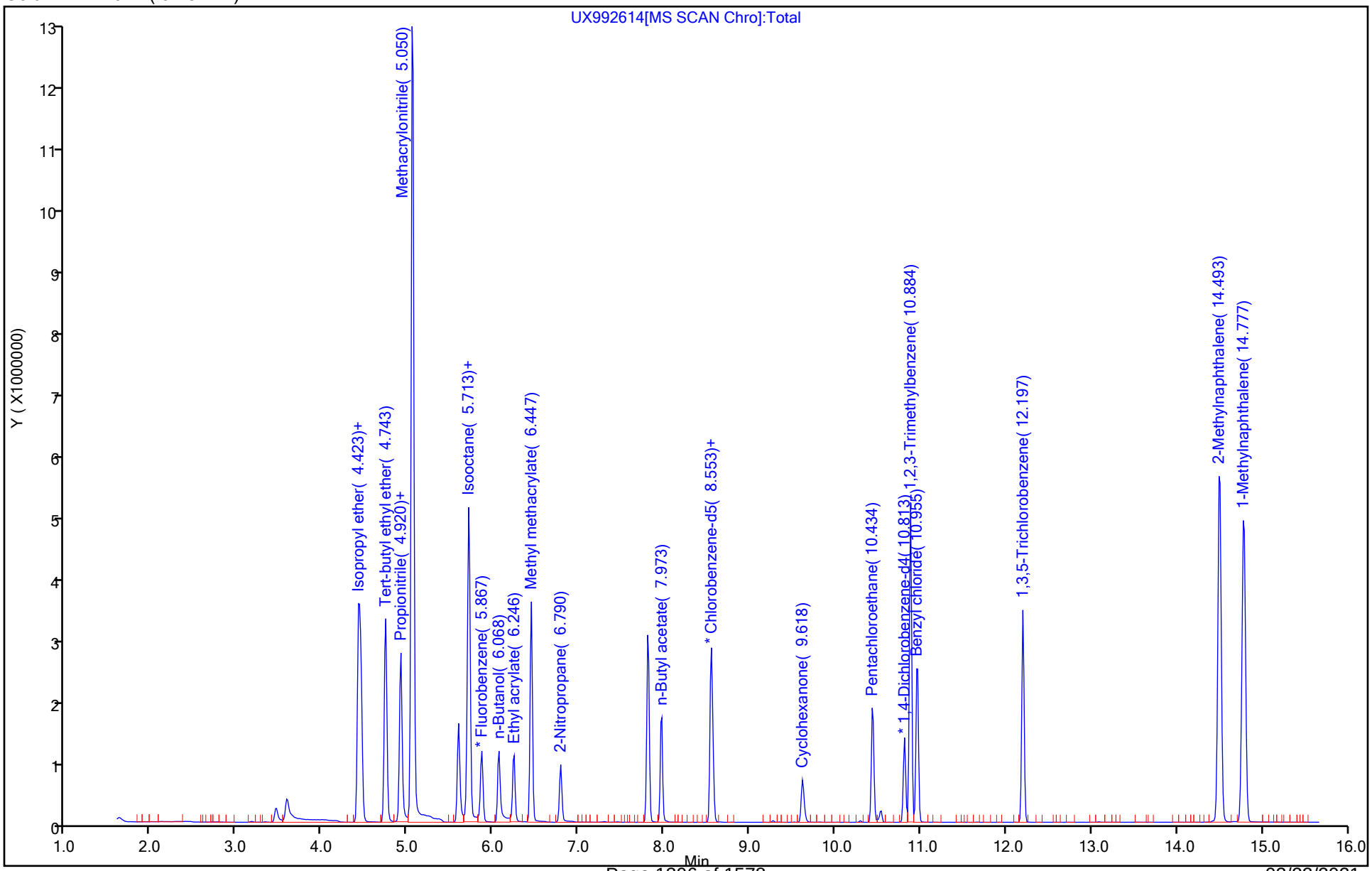
Report Date: 08-Jan-2021 14:08:56 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Injection Date:	07-Jan-2021 18:20:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	stdA9 L6			Worklist Smp#:	23
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



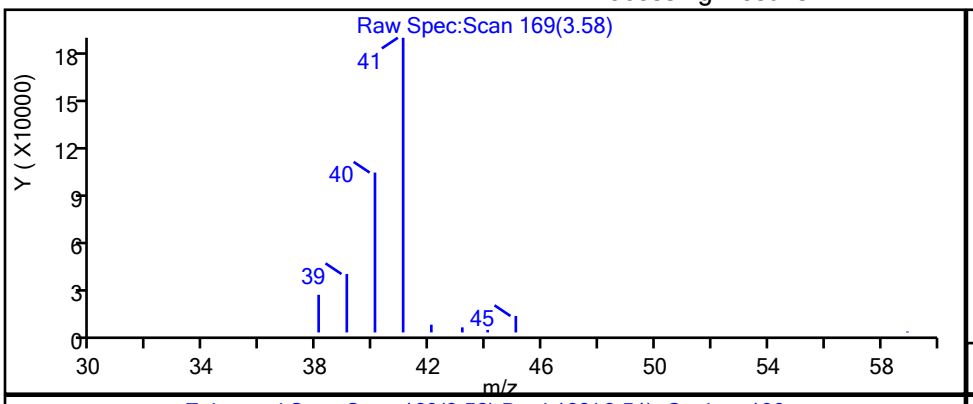
User Disabled Compound Report

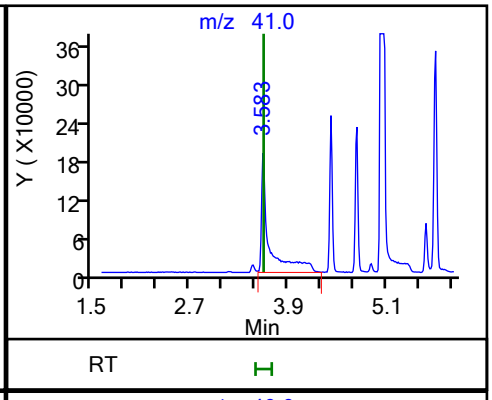
Eurofins TestAmerica, Canton

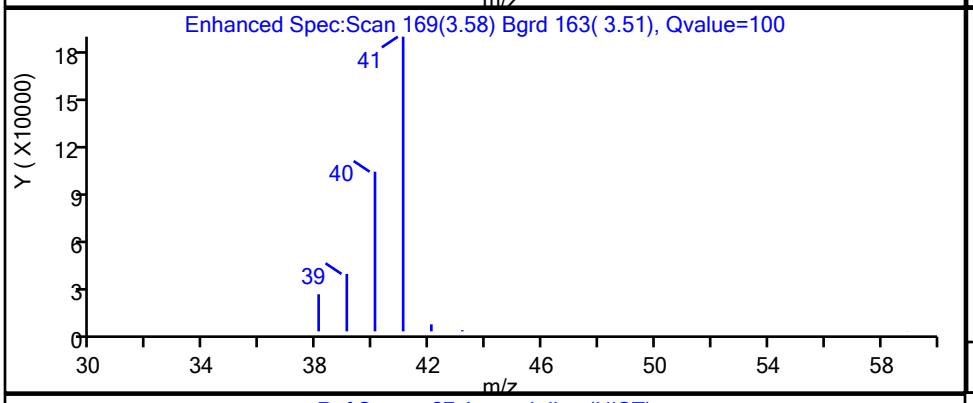
Data File:	\\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D				
Injection Date:	07-Jan-2021 18:20:30	Instrument ID:	A3UX9		
Lims ID:	stdA9 L6				
Client ID:					
Operator ID:	001765	ALS Bottle#:	23	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_9	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

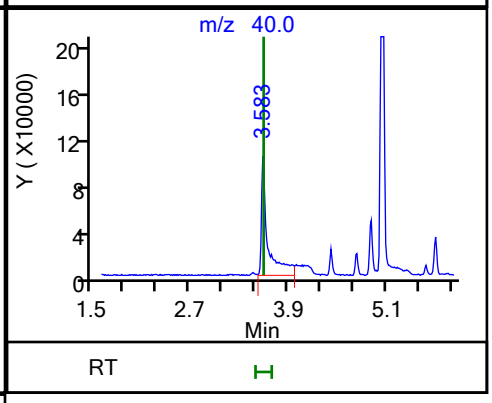
27 Acetonitrile, CAS: 75-05-8

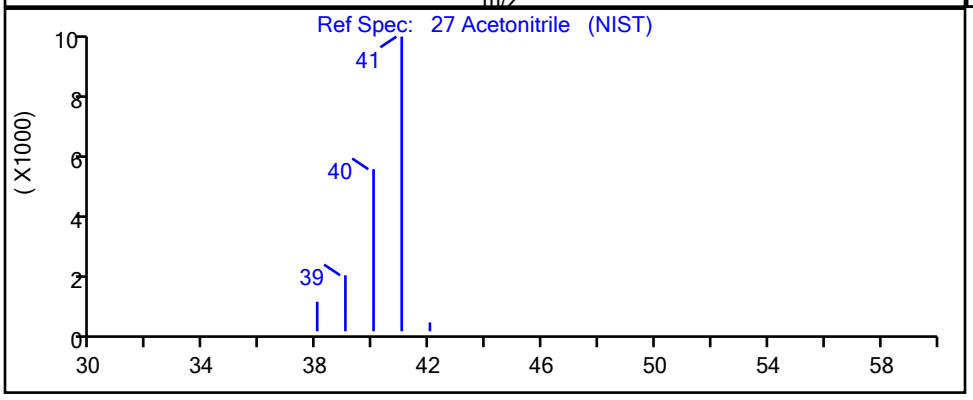
Processing Results











RT	Mass	Response	Amount
3.58	41.00	1253131	782.9803
3.58	40.00	558707	

Reviewer: bosworthh, 08-Jan-2021 13:57:53

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

Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

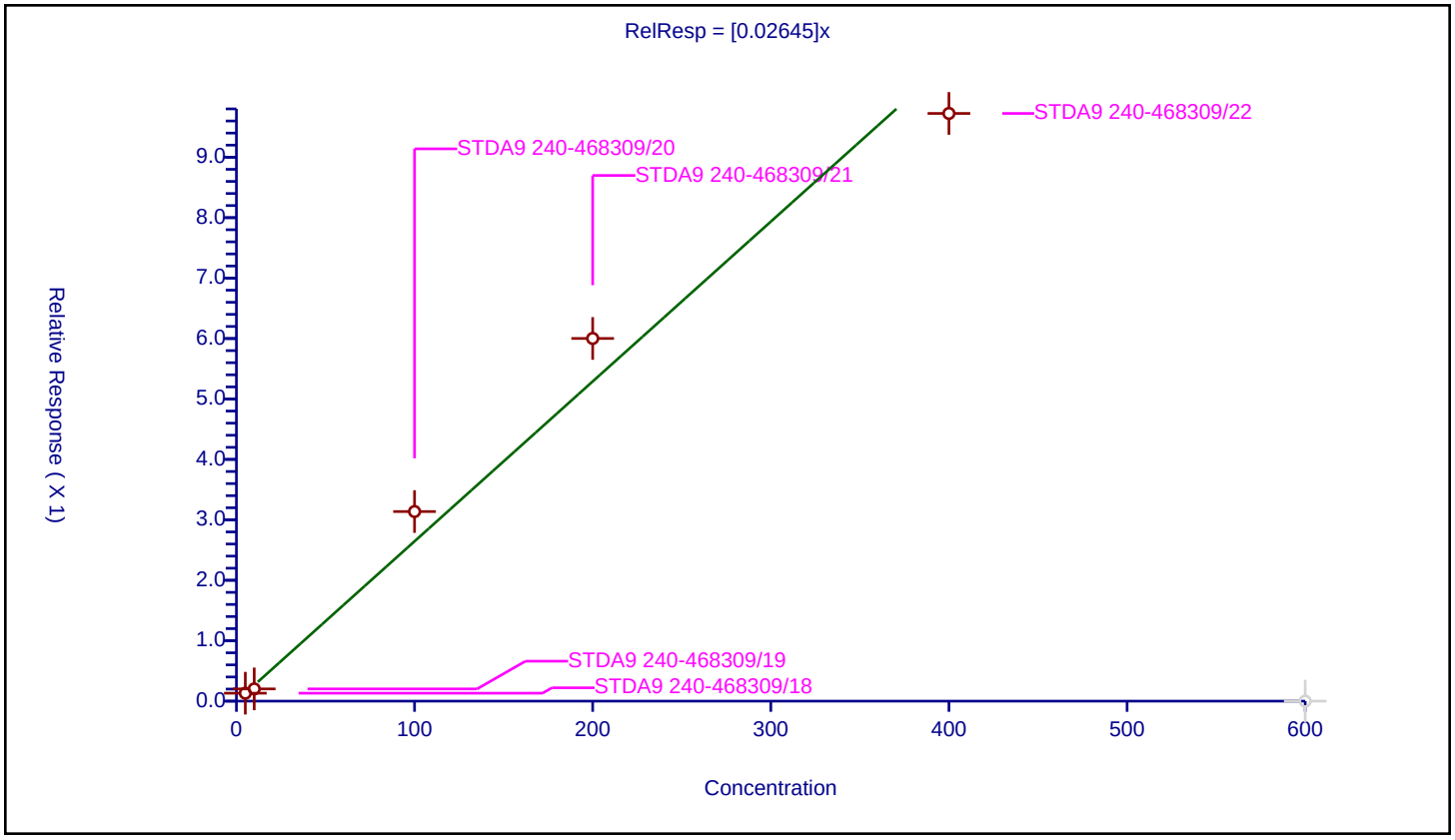
Curve Coefficients

Intercept:	0
Slope:	0.02645

Error Coefficients

Standard Error:	317000
Relative Standard Error:	16.9
Correlation Coefficient:	0.981
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	5.0	0.131551	20.0	1010406.0	0.02631	Y
2	STDA9 240-468309/19	10.0	0.202495	20.0	999331.0	0.02025	Y
3	STDA9 240-468309/20	100.0	3.137331	20.0	1078898.0	0.031373	Y
4	STDA9 240-468309/21	200.0	6.001345	20.0	1081201.0	0.030007	Y
5	STDA9 240-468309/22	400.0	9.724681	20.0	1065781.0	0.024312	Y
6	STDA9 240-468309/23	600.0	0.0	20.0	1136354.0	0.0	N



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

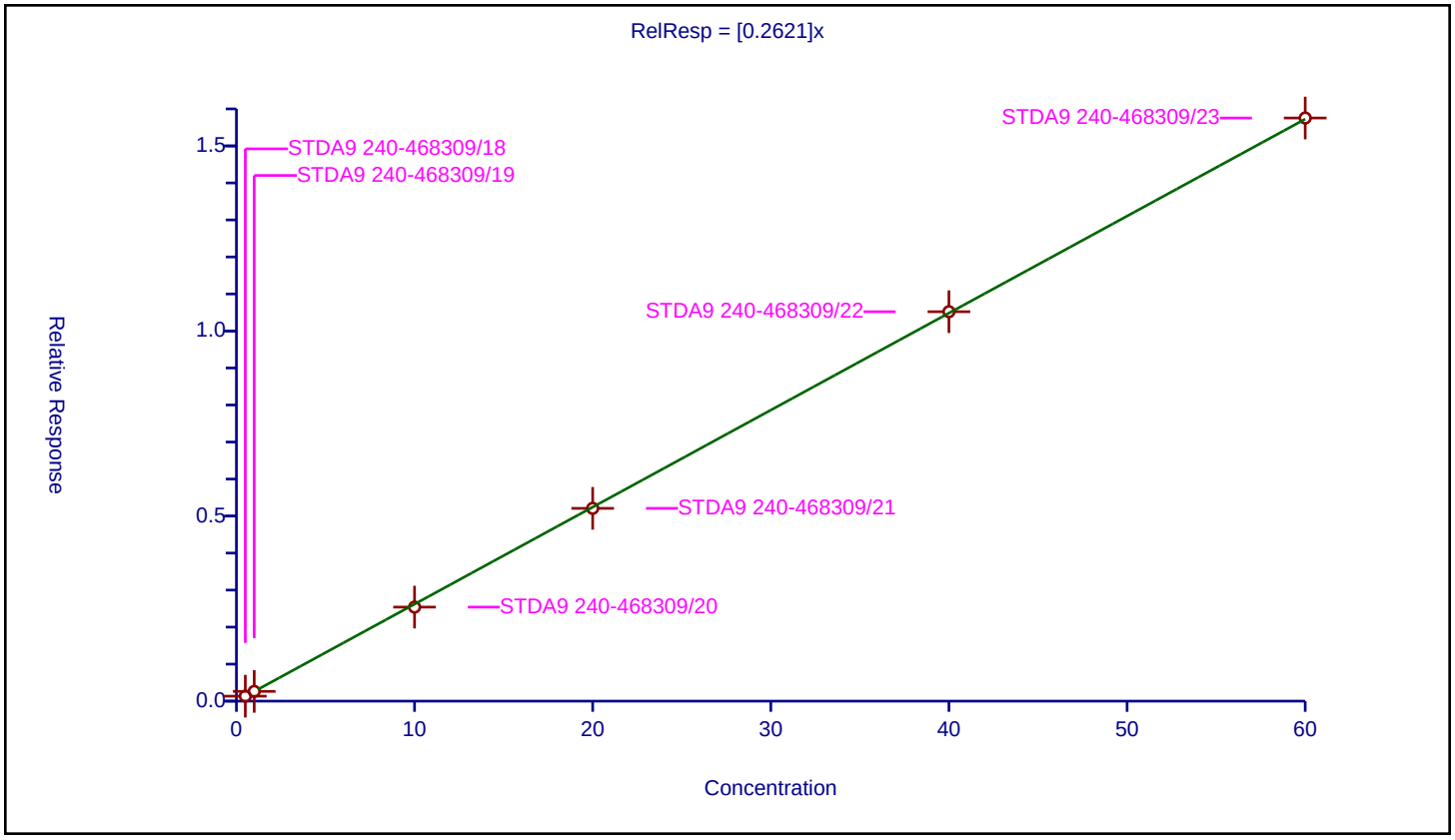
Curve Coefficients

Intercept:	0
Slope:	0.2621

Error Coefficients

Standard Error:	493000
Relative Standard Error:	1.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	0.5	0.134421	20.0	1010406.0	0.268842	Y
2	STDA9 240-468309/19	1.0	0.263636	20.0	999331.0	0.263636	Y
3	STDA9 240-468309/20	10.0	2.540426	20.0	1078898.0	0.254043	Y
4	STDA9 240-468309/21	20.0	5.20819	20.0	1081201.0	0.260409	Y
5	STDA9 240-468309/22	40.0	10.520998	20.0	1065781.0	0.263025	Y
6	STDA9 240-468309/23	60.0	15.754017	20.0	1136354.0	0.262567	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

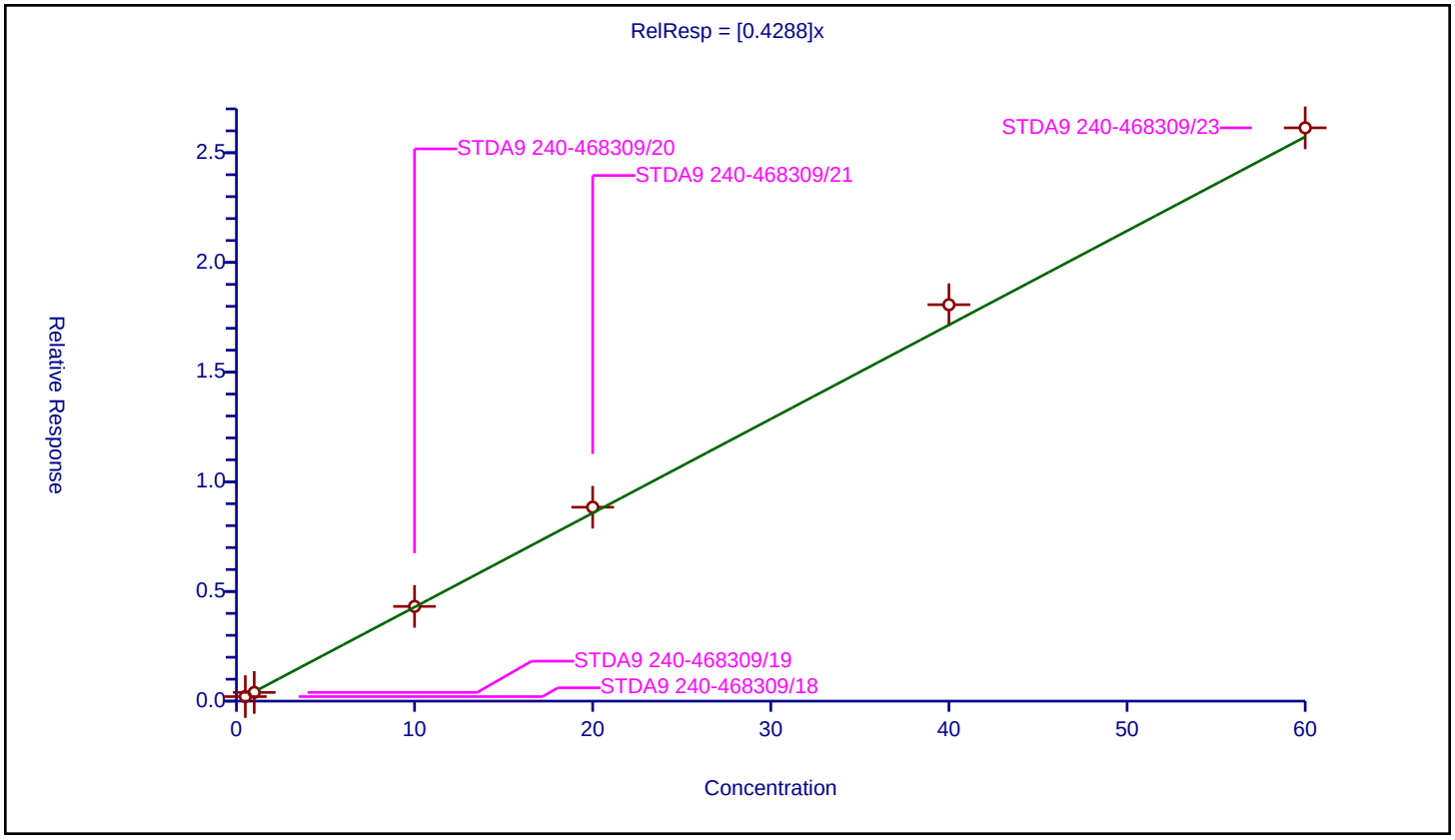
Curve Coefficients

Intercept:	0
Slope:	0.4288

Error Coefficients

Standard Error:	827000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	0.5	0.206669	20.0	1010406.0	0.413339	Y
2	STDA9 240-468309/19	1.0	0.397886	20.0	999331.0	0.397886	Y
3	STDA9 240-468309/20	10.0	4.318722	20.0	1078898.0	0.431872	Y
4	STDA9 240-468309/21	20.0	8.84152	20.0	1081201.0	0.442076	Y
5	STDA9 240-468309/22	40.0	18.072643	20.0	1065781.0	0.451816	Y
6	STDA9 240-468309/23	60.0	26.136222	20.0	1136354.0	0.435604	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

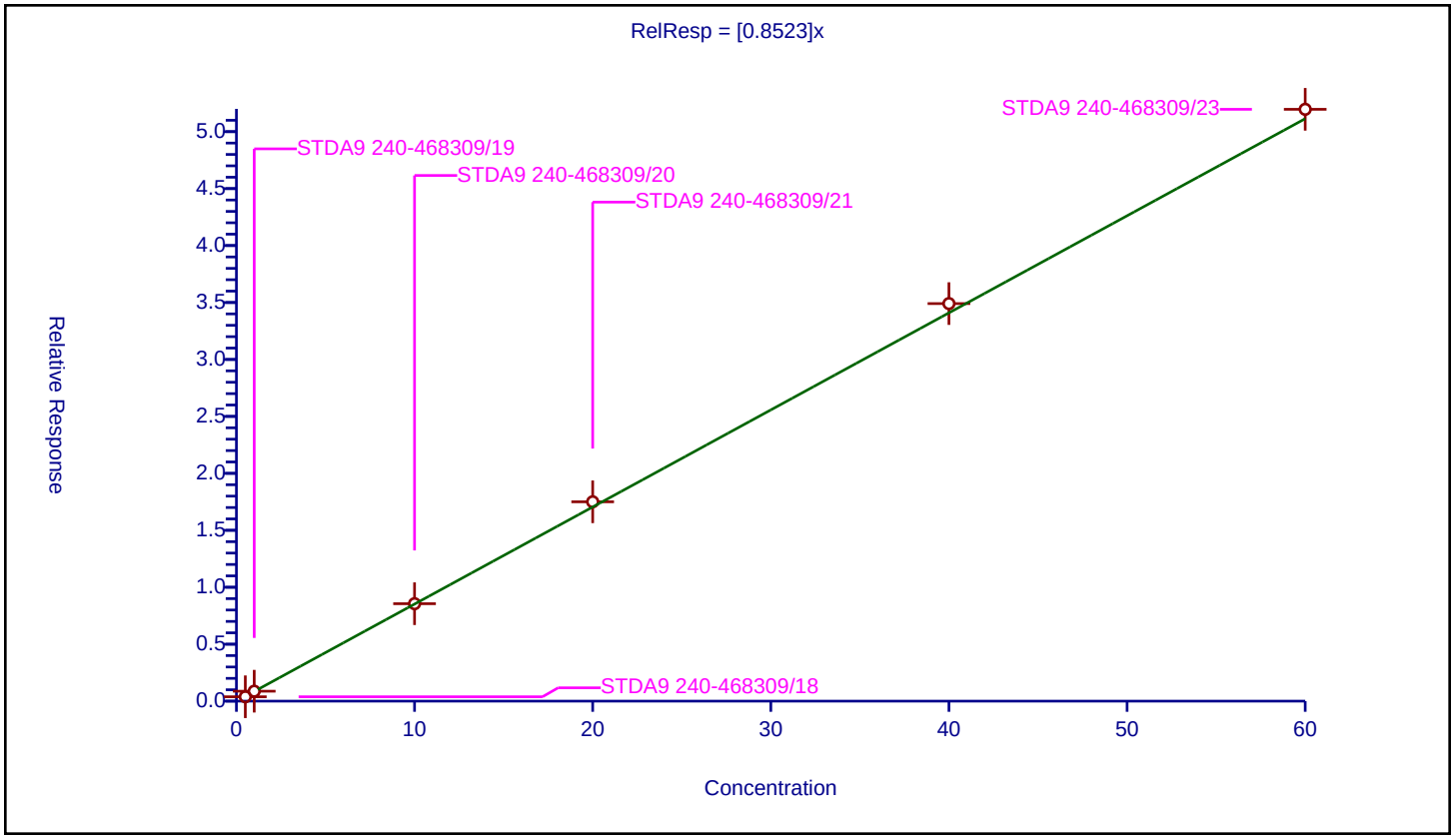
Curve Coefficients

Intercept:	0
Slope:	0.8523

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	0.5	0.385409	20.0	1010406.0	0.770819	Y
2	STDA9 240-468309/19	1.0	0.873644	20.0	999331.0	0.873644	Y
3	STDA9 240-468309/20	10.0	8.556397	20.0	1078898.0	0.85564	Y
4	STDA9 240-468309/21	20.0	17.502148	20.0	1081201.0	0.875107	Y
5	STDA9 240-468309/22	40.0	34.905839	20.0	1065781.0	0.872646	Y
6	STDA9 240-468309/23	60.0	51.961941	20.0	1136354.0	0.866032	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

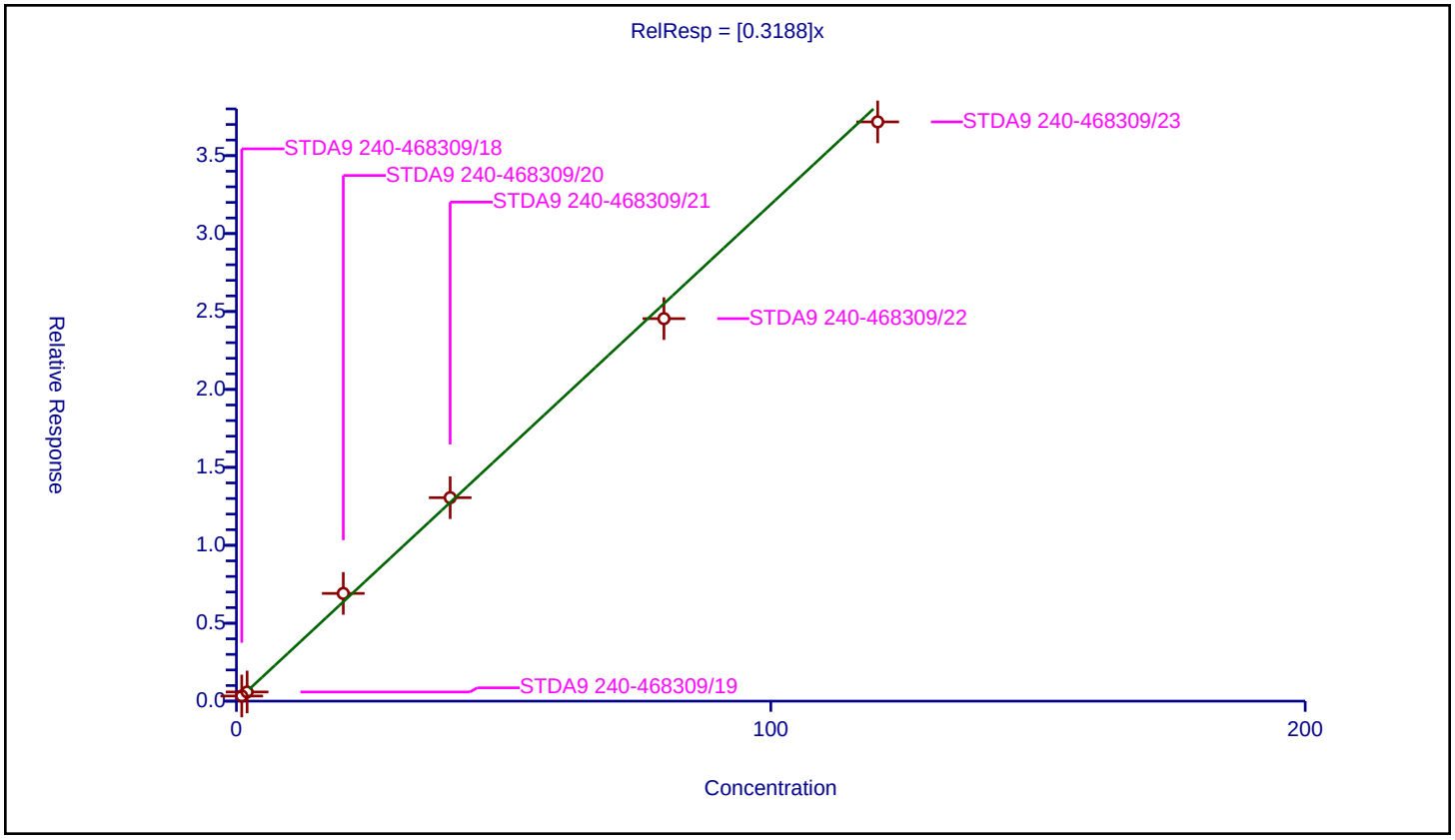
Curve Coefficients

Intercept:	0
Slope:	0.3188

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	5.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	1.0	0.329412	20.0	1010406.0	0.329412	Y
2	STDA9 240-468309/19	2.0	0.589294	20.0	999331.0	0.294647	Y
3	STDA9 240-468309/20	20.0	6.912442	20.0	1078898.0	0.345622	Y
4	STDA9 240-468309/21	40.0	13.054538	20.0	1081201.0	0.326363	Y
5	STDA9 240-468309/22	80.0	24.542209	20.0	1065781.0	0.306778	Y
6	STDA9 240-468309/23	120.0	37.165989	20.0	1136354.0	0.309717	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

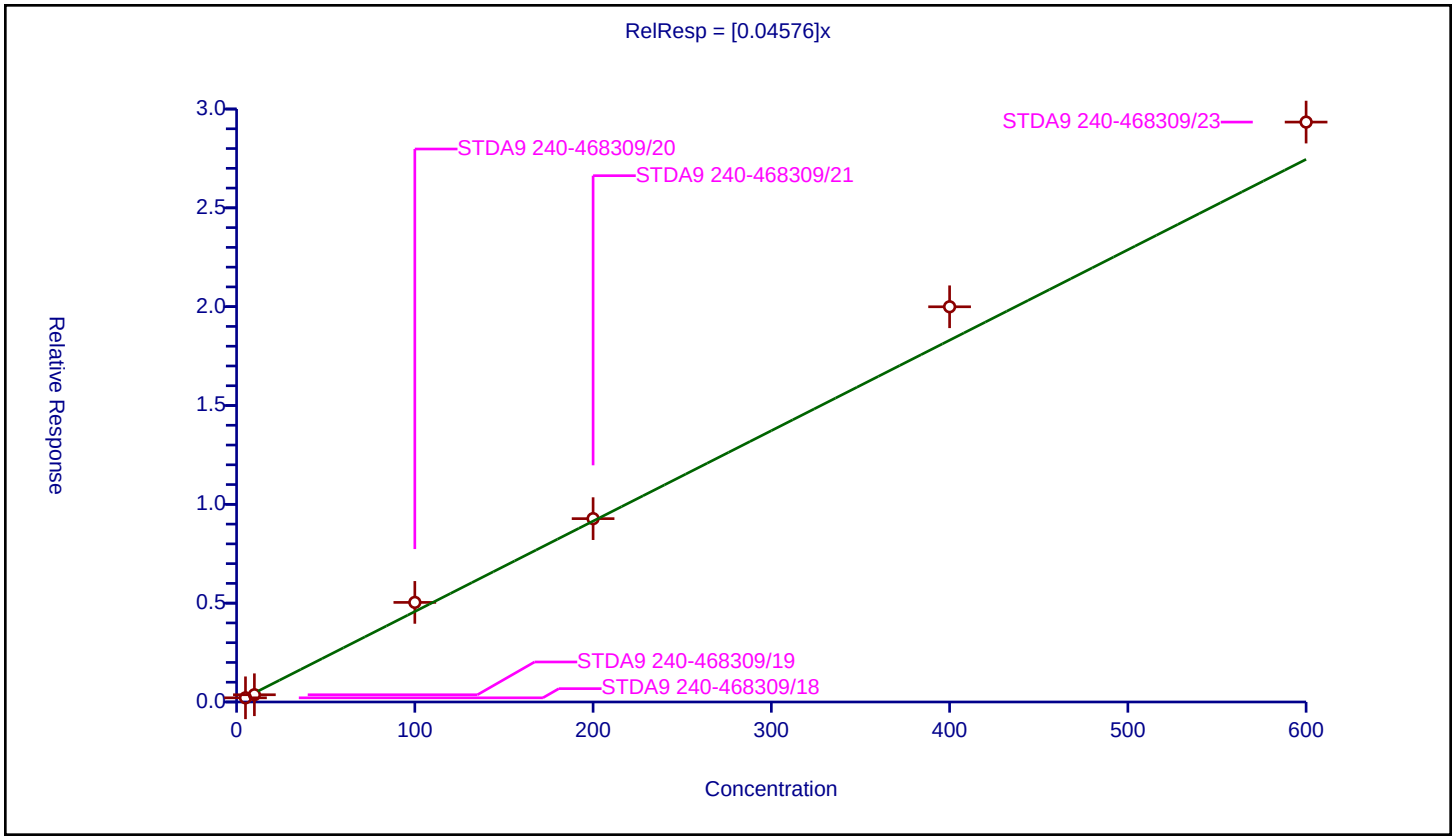
Curve Coefficients

Intercept:	0
Slope:	0.04576

Error Coefficients

Standard Error:	921000
Relative Standard Error:	11.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	5.0	0.211064	20.0	1010406.0	0.042213	Y
2	STDA9 240-468309/19	10.0	0.366665	20.0	999331.0	0.036667	Y
3	STDA9 240-468309/20	100.0	5.038845	20.0	1078898.0	0.050388	Y
4	STDA9 240-468309/21	200.0	9.276407	20.0	1081201.0	0.046382	Y
5	STDA9 240-468309/22	400.0	19.995365	20.0	1065781.0	0.049988	Y
6	STDA9 240-468309/23	600.0	29.33922	20.0	1136354.0	0.048899	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

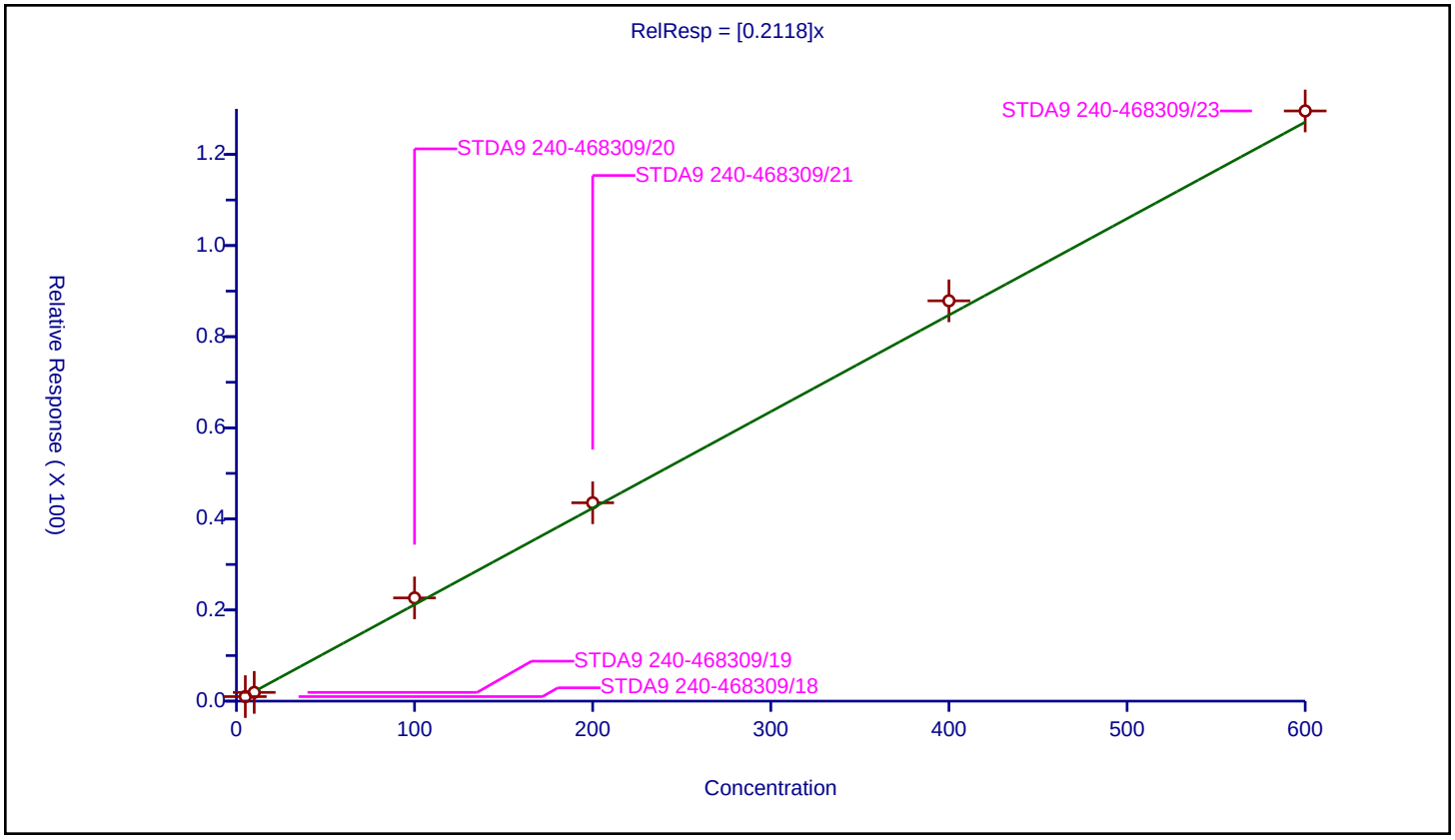
Curve Coefficients

Intercept:	0
Slope:	0.2118

Error Coefficients

Standard Error:	4080000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	5.0	0.9956	20.0	1010406.0	0.19912	Y
2	STDA9 240-468309/19	10.0	1.919964	20.0	999331.0	0.191996	Y
3	STDA9 240-468309/20	100.0	22.659714	20.0	1078898.0	0.226597	Y
4	STDA9 240-468309/21	200.0	43.537733	20.0	1081201.0	0.217689	Y
5	STDA9 240-468309/22	400.0	87.87462	20.0	1065781.0	0.219687	Y
6	STDA9 240-468309/23	600.0	129.548838	20.0	1136354.0	0.215915	Y



Calibration / Isooctane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

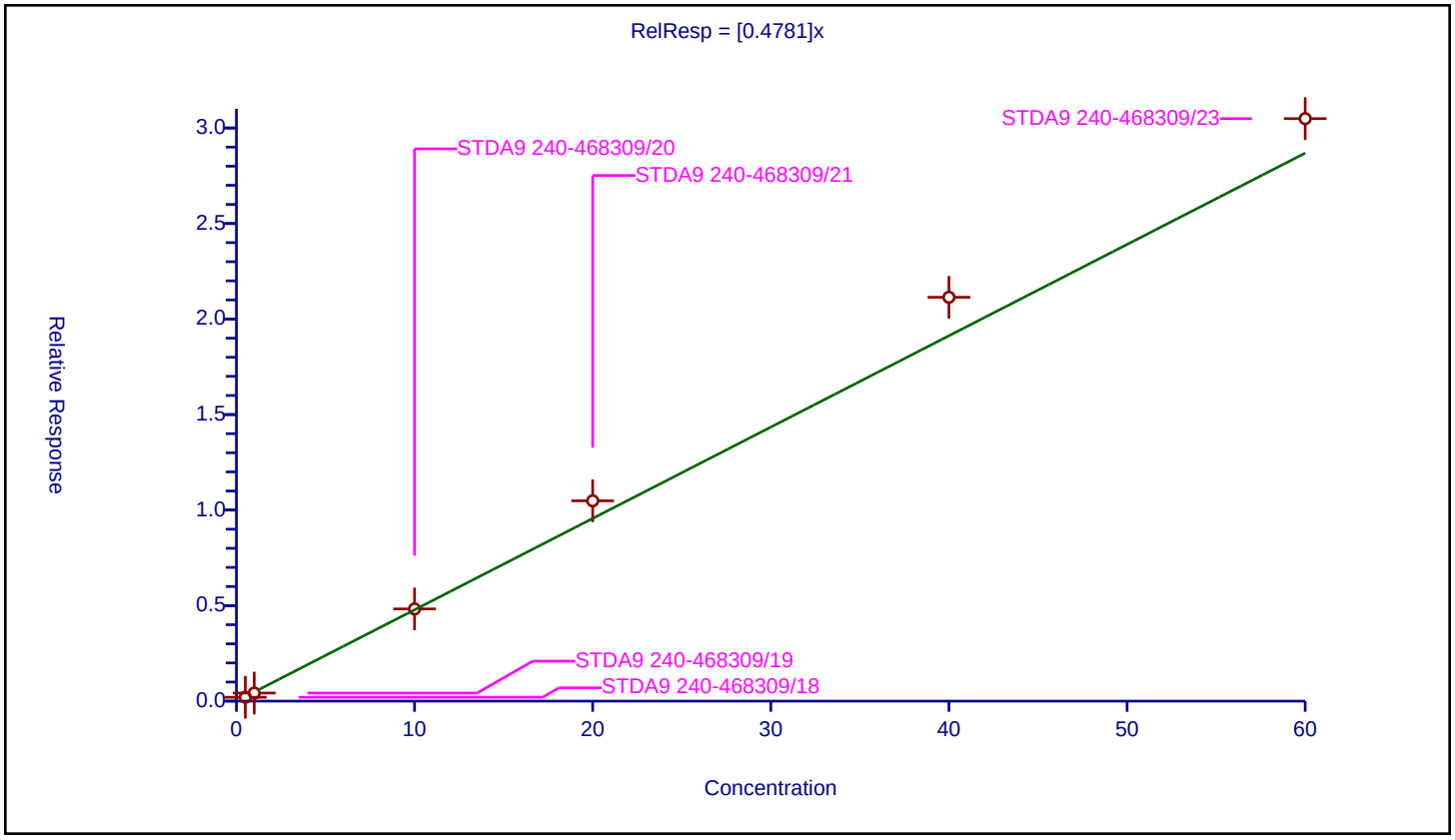
Curve Coefficients

Intercept:	0
Slope:	0.4781

Error Coefficients

Standard Error:	965000
Relative Standard Error:	11.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	0.5	0.200989	20.0	1010406.0	0.401977	Y
2	STDA9 240-468309/19	1.0	0.423223	20.0	999331.0	0.423223	Y
3	STDA9 240-468309/20	10.0	4.825813	20.0	1078898.0	0.482581	Y
4	STDA9 240-468309/21	20.0	10.485173	20.0	1081201.0	0.524259	Y
5	STDA9 240-468309/22	40.0	21.139427	20.0	1065781.0	0.528486	Y
6	STDA9 240-468309/23	60.0	30.490199	20.0	1136354.0	0.50817	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

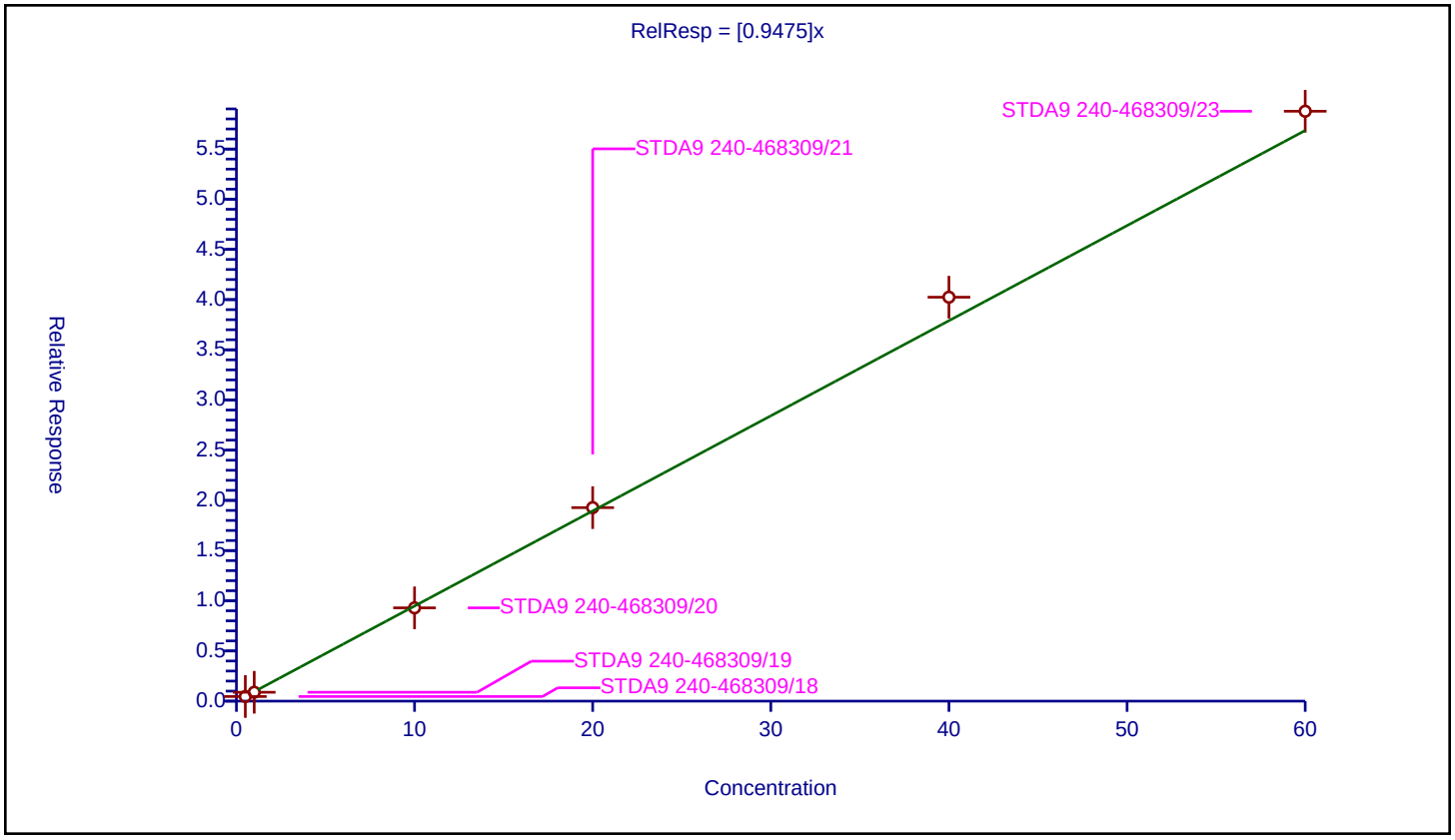
Curve Coefficients

Intercept:	0
Slope:	0.9475

Error Coefficients

Standard Error:	1850000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	0.5	0.461141	20.0	1010406.0	0.922283	Y
2	STDA9 240-468309/19	1.0	0.884111	20.0	999331.0	0.884111	Y
3	STDA9 240-468309/20	10.0	9.291926	20.0	1078898.0	0.929193	Y
4	STDA9 240-468309/21	20.0	19.277359	20.0	1081201.0	0.963868	Y
5	STDA9 240-468309/22	40.0	40.240875	20.0	1065781.0	1.006022	Y
6	STDA9 240-468309/23	60.0	58.767726	20.0	1136354.0	0.979462	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

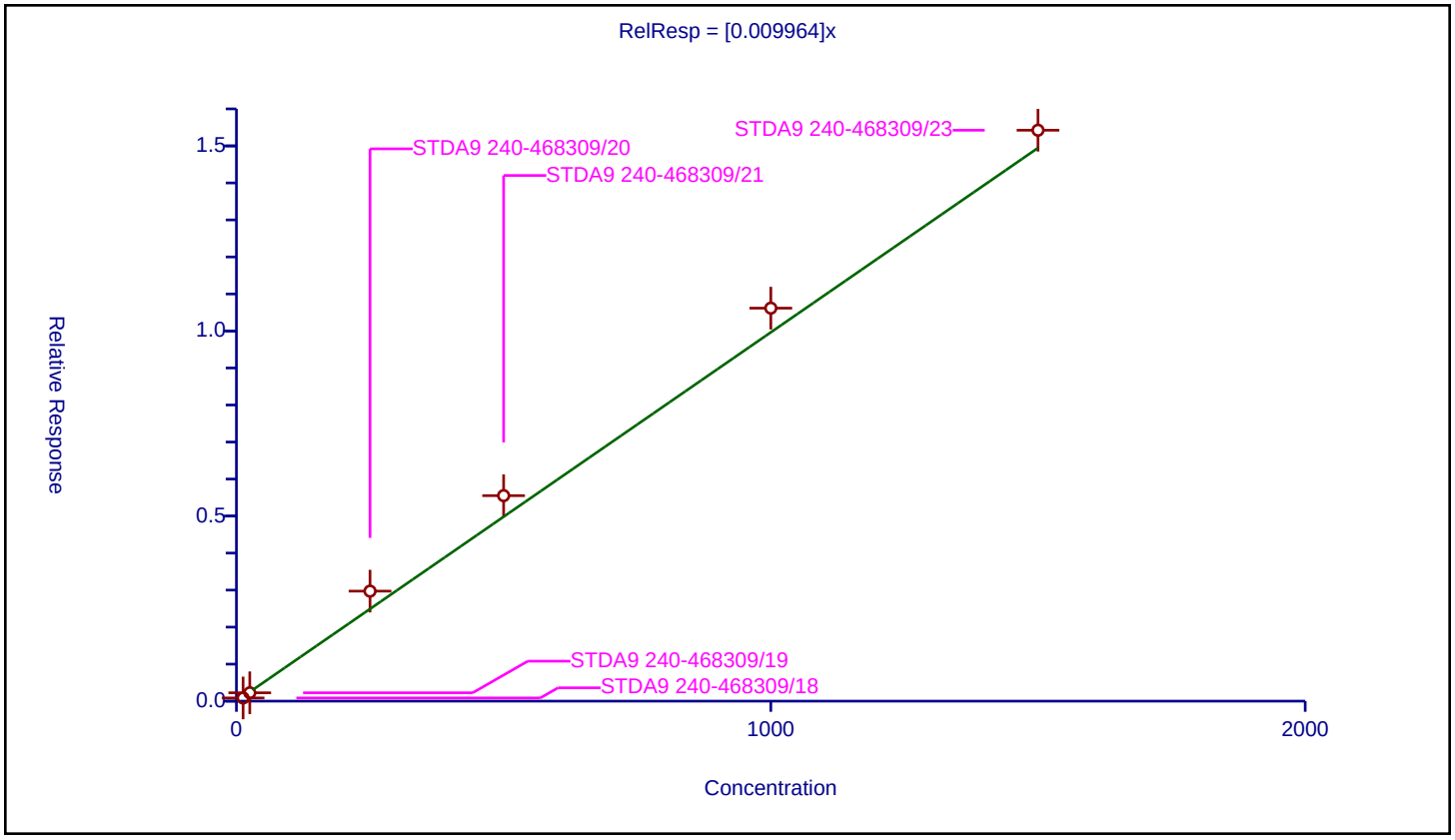
Curve Coefficients

Intercept:	0
Slope:	0.009964

Error Coefficients

Standard Error:	491000
Relative Standard Error:	18.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	12.5	0.085768	20.0	1010406.0	0.006861	Y
2	STDA9 240-468309/19	25.0	0.225731	20.0	999331.0	0.009029	Y
3	STDA9 240-468309/20	250.0	2.972014	20.0	1078898.0	0.011888	Y
4	STDA9 240-468309/21	500.0	5.551567	20.0	1081201.0	0.011103	Y
5	STDA9 240-468309/22	1000.0	10.617022	20.0	1065781.0	0.010617	Y
6	STDA9 240-468309/23	1500.0	15.423363	20.0	1136354.0	0.010282	Y



Calibration / Ethyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

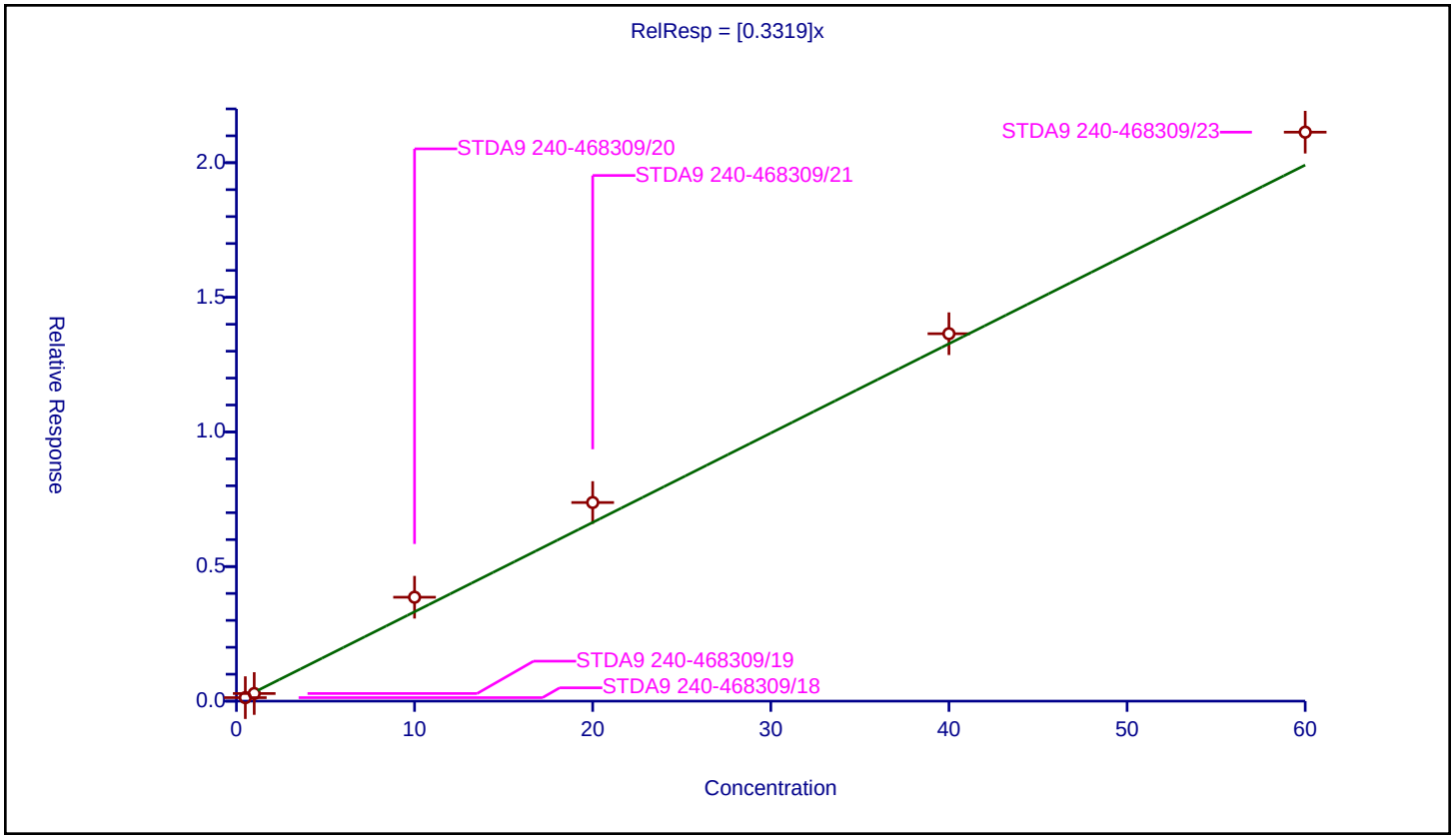
Curve Coefficients

Intercept:	0
Slope:	0.3319

Error Coefficients

Standard Error:	659000
Relative Standard Error:	15.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	0.5	0.129928	20.0	1010406.0	0.259856	Y
2	STDA9 240-468309/19	1.0	0.283189	20.0	999331.0	0.283189	Y
3	STDA9 240-468309/20	10.0	3.859679	20.0	1078898.0	0.385968	Y
4	STDA9 240-468309/21	20.0	7.378554	20.0	1081201.0	0.368928	Y
5	STDA9 240-468309/22	40.0	13.649089	20.0	1065781.0	0.341227	Y
6	STDA9 240-468309/23	60.0	21.135386	20.0	1136354.0	0.352256	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

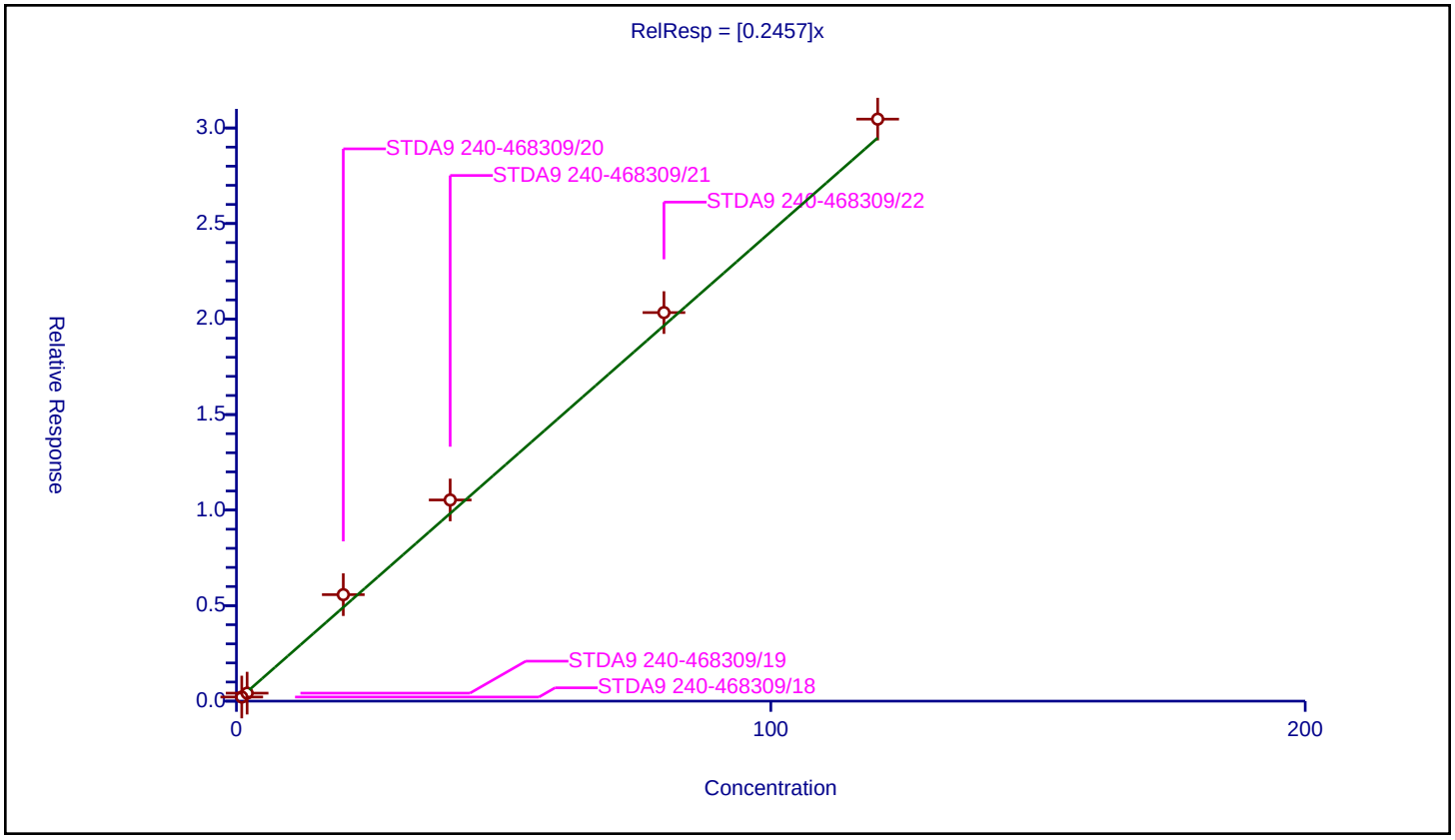
Curve Coefficients

Intercept:	0
Slope:	0.2457

Error Coefficients

Standard Error:	958000
Relative Standard Error:	11.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	1.0	0.214963	20.0	1010406.0	0.214963	Y
2	STDA9 240-468309/19	2.0	0.41836	20.0	999331.0	0.20918	Y
3	STDA9 240-468309/20	20.0	5.574948	20.0	1078898.0	0.278747	Y
4	STDA9 240-468309/21	40.0	10.529679	20.0	1081201.0	0.263242	Y
5	STDA9 240-468309/22	80.0	20.338906	20.0	1065781.0	0.254236	Y
6	STDA9 240-468309/23	120.0	30.464222	20.0	1136354.0	0.253869	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

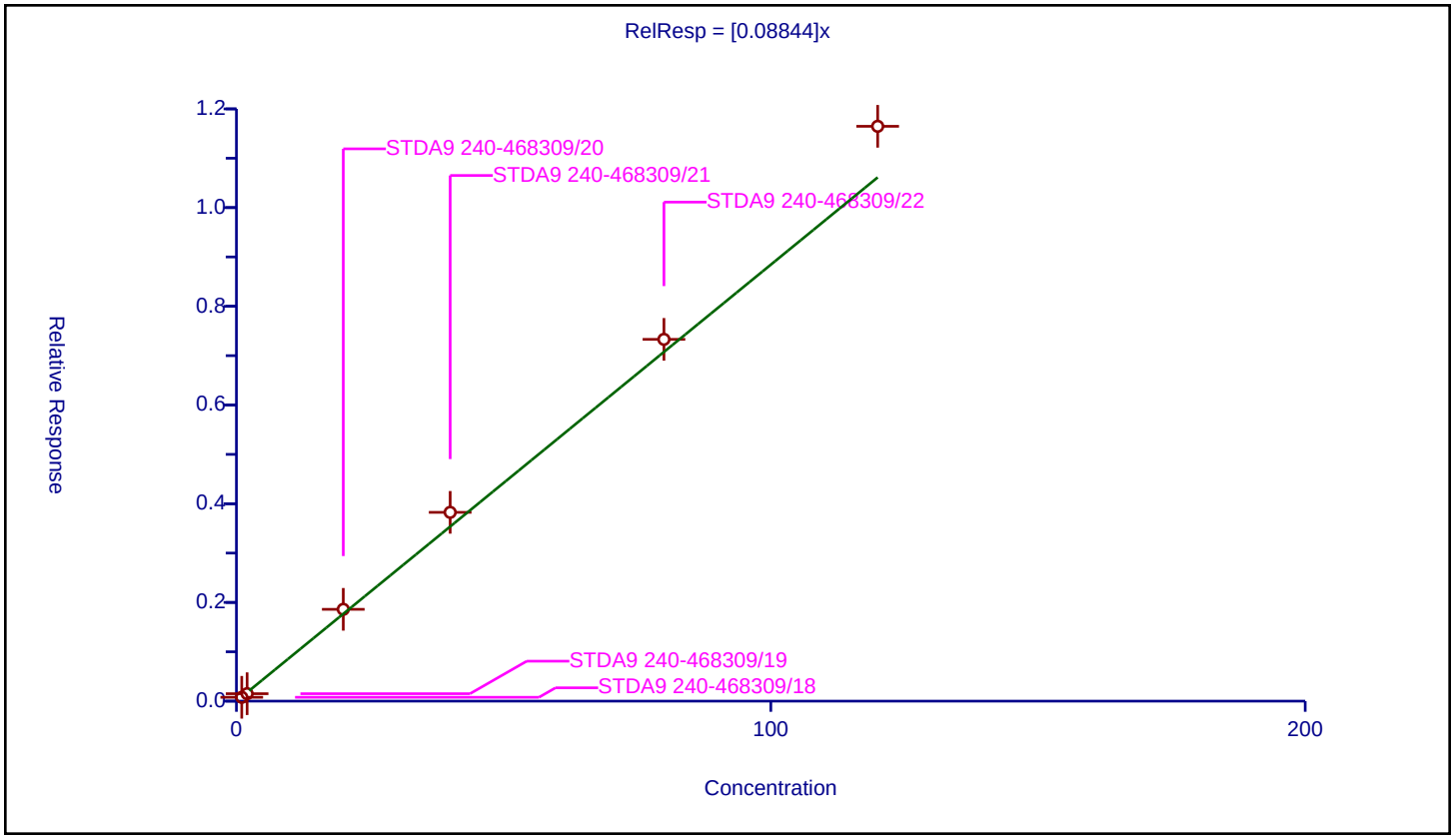
Curve Coefficients

Intercept:	0
Slope:	0.08844

Error Coefficients

Standard Error:	359000
Relative Standard Error:	10.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	1.0	0.077889	20.0	1010406.0	0.077889	Y
2	STDA9 240-468309/19	2.0	0.150761	20.0	999331.0	0.07538	Y
3	STDA9 240-468309/20	20.0	1.860621	20.0	1078898.0	0.093031	Y
4	STDA9 240-468309/21	40.0	3.825413	20.0	1081201.0	0.095635	Y
5	STDA9 240-468309/22	80.0	7.33038	20.0	1065781.0	0.09163	Y
6	STDA9 240-468309/23	120.0	11.647216	20.0	1136354.0	0.09706	Y



Calibration / n-Butyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

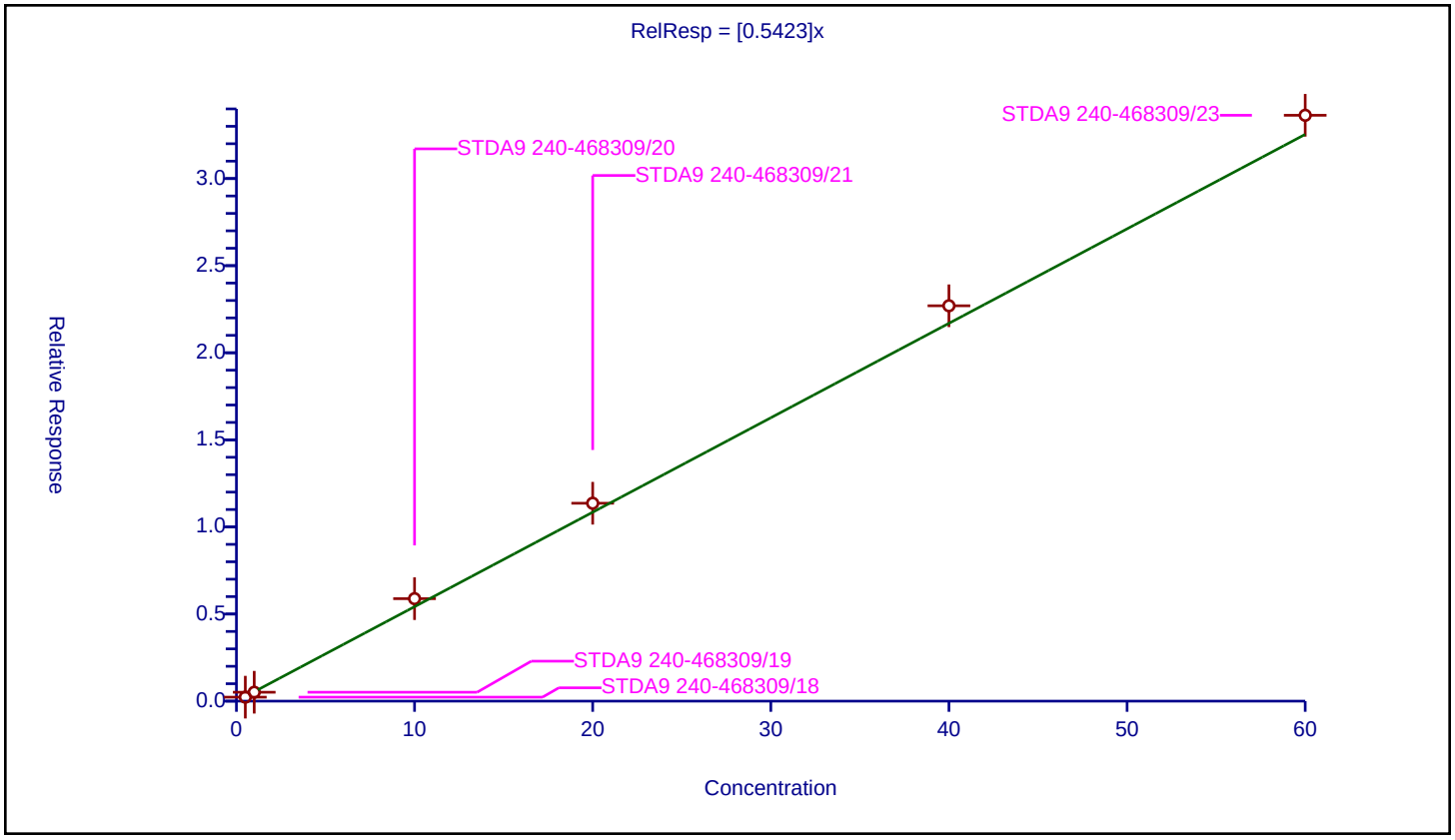
Curve Coefficients

Intercept:	0
Slope:	0.5423

Error Coefficients

Standard Error:	762000
Relative Standard Error:	9.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	0.5	0.22918	20.0	707480.0	0.458359	Y
2	STDA9 240-468309/19	1.0	0.510843	20.0	686864.0	0.510843	Y
3	STDA9 240-468309/20	10.0	5.883529	20.0	805452.0	0.588353	Y
4	STDA9 240-468309/21	20.0	11.361432	20.0	802089.0	0.568072	Y
5	STDA9 240-468309/22	40.0	22.697526	20.0	754380.0	0.567438	Y
6	STDA9 240-468309/23	60.0	33.632297	20.0	821037.0	0.560538	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

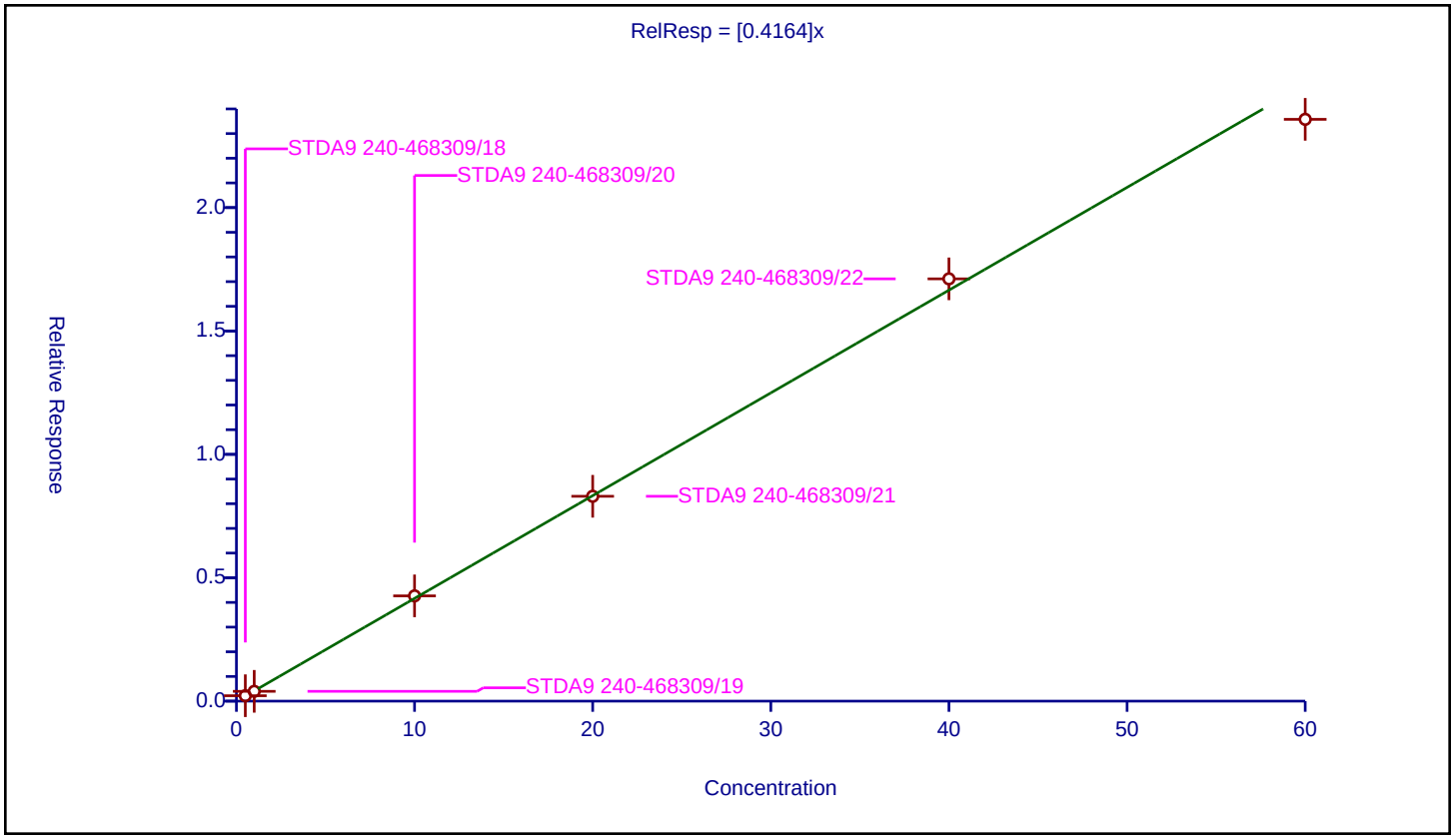
Curve Coefficients

Intercept:	0
Slope:	0.4164

Error Coefficients

Standard Error:	547000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	0.5	0.219229	20.0	707480.0	0.438458	Y
2	STDA9 240-468309/19	1.0	0.397313	20.0	686864.0	0.397313	Y
3	STDA9 240-468309/20	10.0	4.266027	20.0	805452.0	0.426603	Y
4	STDA9 240-468309/21	20.0	8.301971	20.0	802089.0	0.415099	Y
5	STDA9 240-468309/22	40.0	17.113099	20.0	754380.0	0.427827	Y
6	STDA9 240-468309/23	60.0	23.57711	20.0	821037.0	0.392952	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

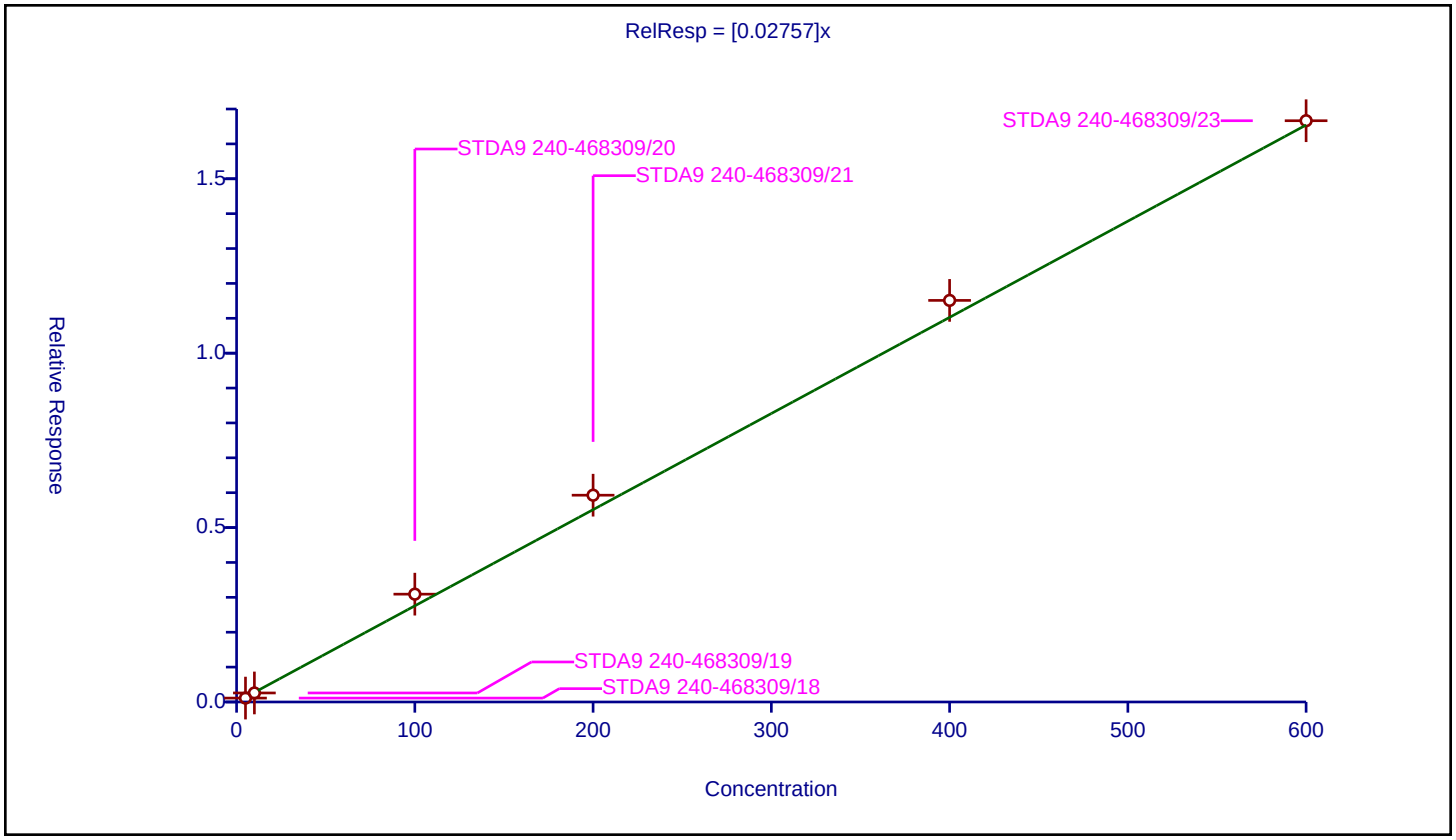
Curve Coefficients

Intercept:	0
Slope:	0.02757

Error Coefficients

Standard Error:	205000
Relative Standard Error:	11.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	5.0	0.112261	20.0	407799.0	0.022452	Y
2	STDA9 240-468309/19	10.0	0.258468	20.0	398811.0	0.025847	Y
3	STDA9 240-468309/20	100.0	3.091609	20.0	429621.0	0.030916	Y
4	STDA9 240-468309/21	200.0	5.928014	20.0	429945.0	0.02964	Y
5	STDA9 240-468309/22	400.0	11.512814	20.0	408550.0	0.028782	Y
6	STDA9 240-468309/23	600.0	16.664475	20.0	441160.0	0.027774	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

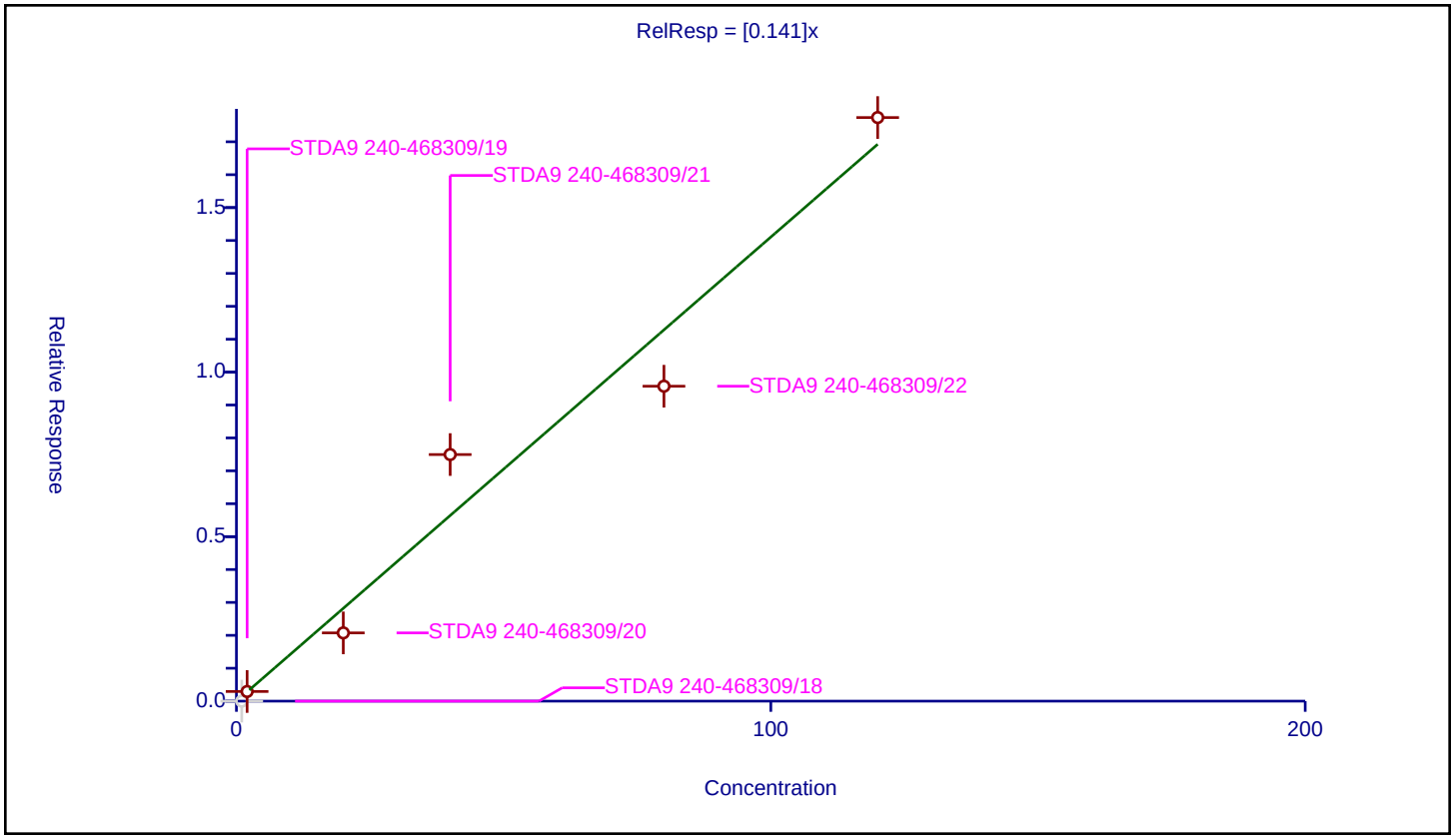
Curve Coefficients

Intercept:	0
Slope:	0.141

Error Coefficients

Standard Error:	234000
Relative Standard Error:	22.6
Correlation Coefficient:	0.948
Coefficient of Determination (Adjusted):	0.945

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	1.0	0.0	20.0	407799.0	0.0	N
2	STDA9 240-468309/19	2.0	0.293372	20.0	398811.0	0.146686	Y
3	STDA9 240-468309/20	20.0	2.074154	20.0	429621.0	0.103708	Y
4	STDA9 240-468309/21	40.0	7.494959	20.0	429945.0	0.187374	Y
5	STDA9 240-468309/22	80.0	9.571901	20.0	408550.0	0.119649	Y
6	STDA9 240-468309/23	120.0	17.737102	20.0	441160.0	0.147809	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

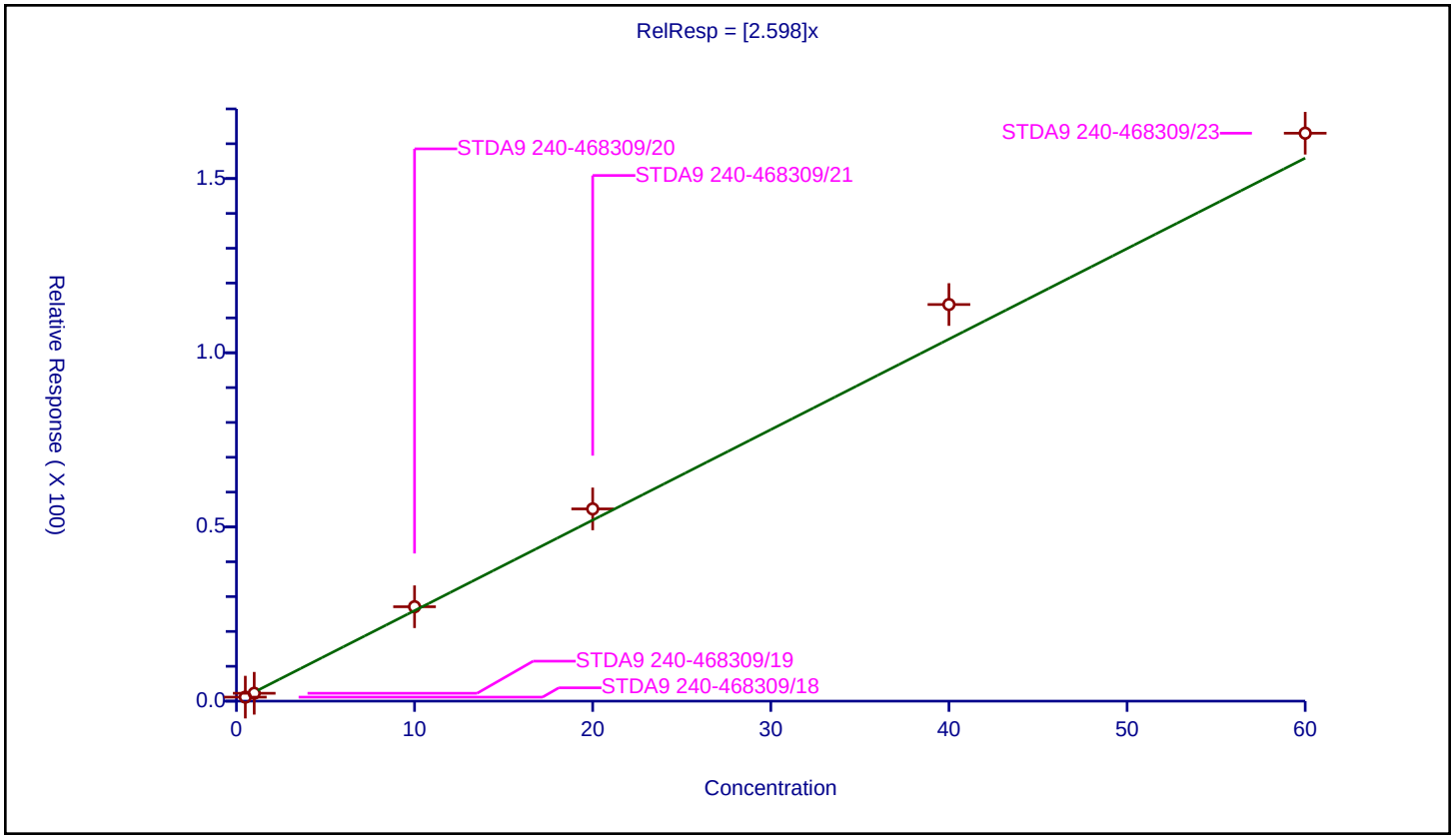
Curve Coefficients

Intercept:	0
Slope:	2.598

Error Coefficients

Standard Error:	2000000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	0.5	1.149929	20.0	407799.0	2.299859	Y
2	STDA9 240-468309/19	1.0	2.255454	20.0	398811.0	2.255454	Y
3	STDA9 240-468309/20	10.0	27.099839	20.0	429621.0	2.709984	Y
4	STDA9 240-468309/21	20.0	55.175895	20.0	429945.0	2.758795	Y
5	STDA9 240-468309/22	40.0	113.846139	20.0	408550.0	2.846153	Y
6	STDA9 240-468309/23	60.0	163.022305	20.0	441160.0	2.717038	Y



Calibration / Benzyl chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

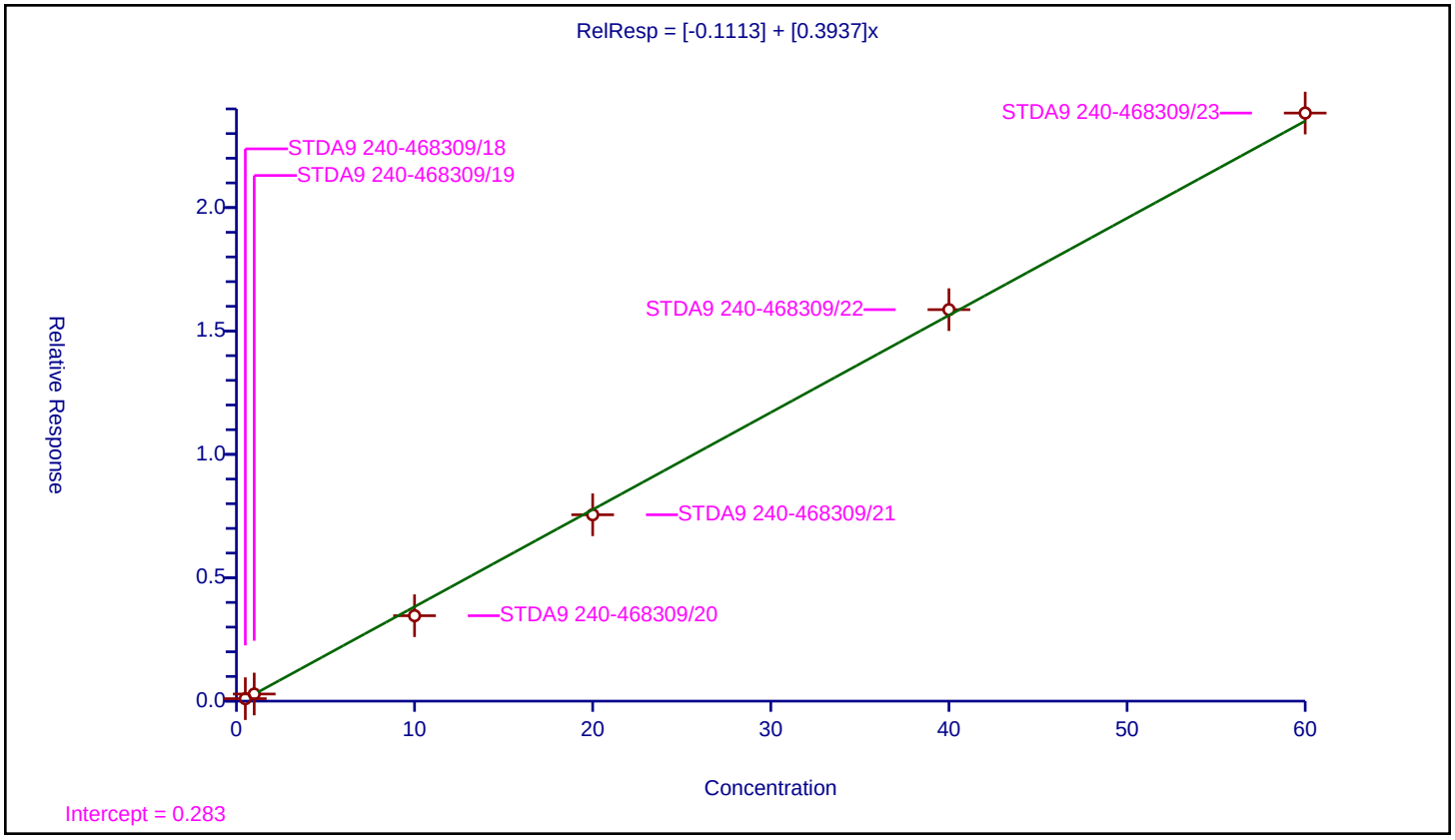
Curve Coefficients

Intercept:	-0.1113
Slope:	0.3937

Error Coefficients

Standard Error:	321000
Relative Standard Error:	6.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	0.5	0.100098	20.0	407799.0	0.200197	Y
2	STDA9 240-468309/19	1.0	0.289059	20.0	398811.0	0.289059	Y
3	STDA9 240-468309/20	10.0	3.461889	20.0	429621.0	0.346189	Y
4	STDA9 240-468309/21	20.0	7.552827	20.0	429945.0	0.377641	Y
5	STDA9 240-468309/22	40.0	15.864937	20.0	408550.0	0.396623	Y
6	STDA9 240-468309/23	60.0	23.831263	20.0	441160.0	0.397188	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

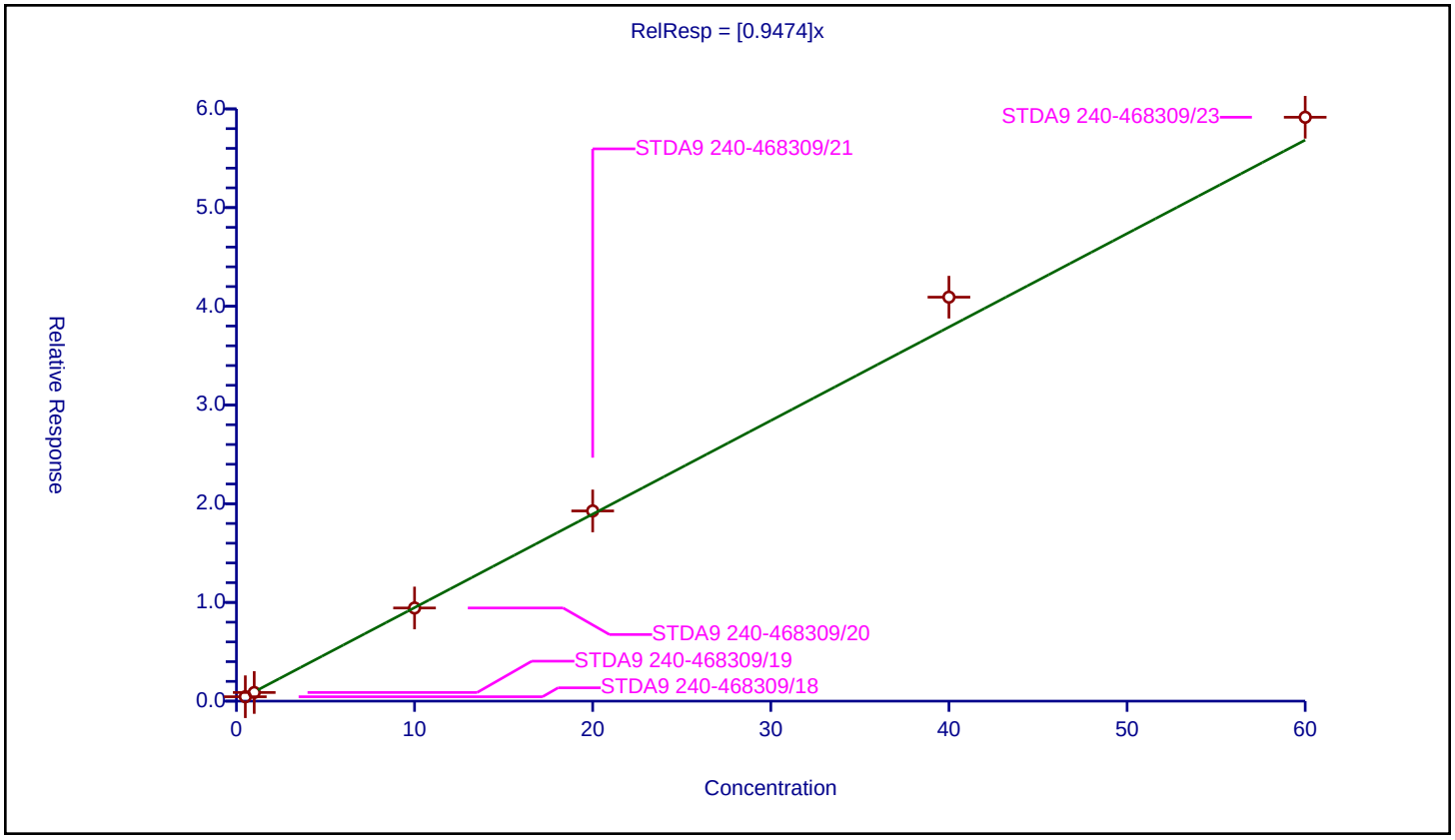
Curve Coefficients

Intercept:	0
Slope:	0.9474

Error Coefficients

Standard Error:	723000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	0.5	0.446789	20.0	407799.0	0.893577	Y
2	STDA9 240-468309/19	1.0	0.87475	20.0	398811.0	0.87475	Y
3	STDA9 240-468309/20	10.0	9.435898	20.0	429621.0	0.94359	Y
4	STDA9 240-468309/21	20.0	19.268418	20.0	429945.0	0.963421	Y
5	STDA9 240-468309/22	40.0	40.926986	20.0	408550.0	1.023175	Y
6	STDA9 240-468309/23	60.0	59.152824	20.0	441160.0	0.98588	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

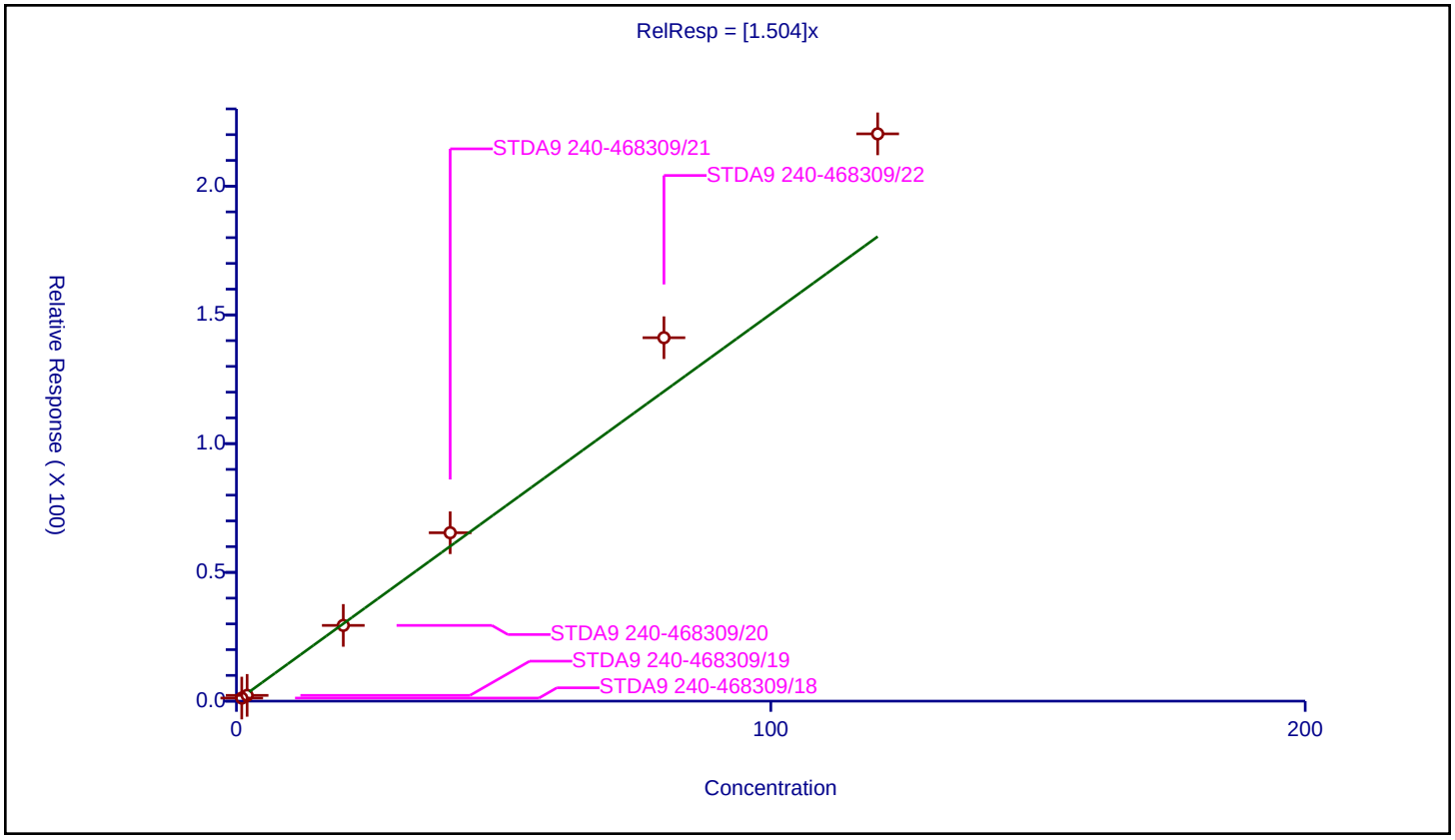
Curve Coefficients

Intercept:	0
Slope:	1.504

Error Coefficients

Standard Error:	2620000
Relative Standard Error:	19.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.961

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	1.0	1.193823	20.0	407799.0	1.193823	Y
2	STDA9 240-468309/19	2.0	2.24397	20.0	398811.0	1.121985	Y
3	STDA9 240-468309/20	20.0	29.412296	20.0	429621.0	1.470615	Y
4	STDA9 240-468309/21	40.0	65.391852	20.0	429945.0	1.634796	Y
5	STDA9 240-468309/22	80.0	141.144095	20.0	408550.0	1.764301	Y
6	STDA9 240-468309/23	120.0	220.304606	20.0	441160.0	1.835872	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

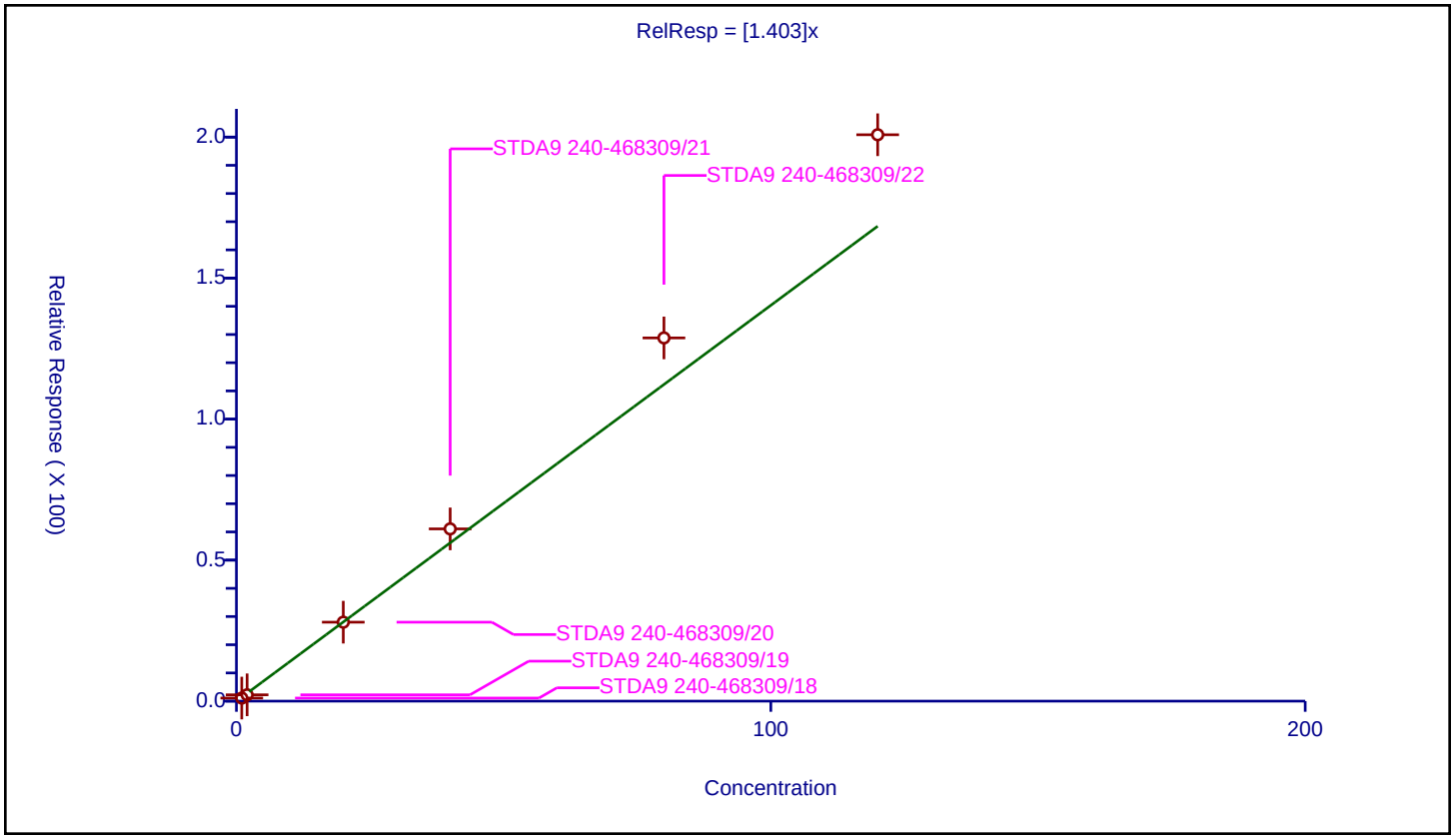
Curve Coefficients

Intercept:	0
Slope:	1.403

Error Coefficients

Standard Error:	2390000
Relative Standard Error:	17.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STDA9 240-468309/18	1.0	1.090635	20.0	407799.0	1.090635	Y
2	STDA9 240-468309/19	2.0	2.239407	20.0	398811.0	1.119703	Y
3	STDA9 240-468309/20	20.0	27.997793	20.0	429621.0	1.39989	Y
4	STDA9 240-468309/21	40.0	61.078464	20.0	429945.0	1.526962	Y
5	STDA9 240-468309/22	80.0	128.79344	20.0	408550.0	1.609918	Y
6	STDA9 240-468309/23	120.0	200.825868	20.0	441160.0	1.673549	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-450378/16 Calibration Date: 09/08/2020 15:15

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31029.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2470	0.2726	0.1000	0.0221	0.0200	10.4	30.0
Chloromethane	Ave	0.3154	0.3025	0.1000	0.0192	0.0200	-4.1	30.0
Vinyl chloride	Ave	0.3384	0.3433	0.1000	0.0203	0.0200	1.5	30.0
Butadiene	Ave	0.2983	0.3191		0.0214	0.0200	7.0	30.0
Bromomethane	Ave	0.2173	0.1999	0.0500	0.0184	0.0200	-8.0	30.0
Chloroethane	Ave	0.1802	0.1765	0.0500	0.0196	0.0200	-2.1	30.0
Dichlorofluoromethane	Ave	0.3832	0.4058		0.0212	0.0200	5.9	30.0
Trichlorofluoromethane	Ave	0.3386	0.3733	0.1000	0.0221	0.0200	10.3	30.0
Ethyl ether	Ave	0.1595	0.1514		0.0190	0.0200	-5.1	30.0
Acrolein	Ave	0.0119	0.0069		0.0579	0.100	-42.1*	30.0
1,1-Dichloroethene	Ave	0.2049	0.1999	0.1000	0.0195	0.0200	-2.4	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1615	0.1762	0.0500	0.0218	0.0200	9.1	30.0
Acetone	Ave	0.0178	0.0142	0.0100	0.0319	0.0400	-20.2	50.0
Iodomethane	Ave	0.3163	0.2718		0.0172	0.0200	-14.0	30.0
Carbon disulfide	Ave	0.6609	0.6132	0.1000	0.0186	0.0200	-7.2	30.0
Methyl acetate	Ave	0.1238	0.1097	0.1000	0.0354	0.0400	-11.4	50.0
3-Chloro-1-propene	Ave	0.2690	0.2515		0.0187	0.0200	-6.5	30.0
Methylene Chloride	Ave	0.2433	0.2261	0.1000	0.0186	0.0200	-7.1	50.0
tert-Butyl alcohol	Ave	0.0158	0.0130		0.165	0.200	-17.3	30.0
Acrylonitrile	Ave	0.0732	0.0657		0.179	0.200	-10.3	30.0
Methyl tert-butyl ether	Ave	0.5668	0.5340	0.1000	0.0188	0.0200	-5.8	30.0
trans-1,2-Dichloroethene	Ave	0.2425	0.2345	0.1000	0.0193	0.0200	-3.3	30.0
Hexane	Ave	0.2648	0.3109		0.0235	0.0200	17.4	30.0
Vinyl acetate	Lin1		0.2549		0.0159	0.0200	-20.7	30.0
1,1-Dichloroethane	Ave	0.3751	0.3549	0.2000	0.0189	0.0200	-5.4	30.0
2-Butanone	Lin1		0.0194	0.0100	0.0330	0.0400	-17.6	50.0
cis-1,2-Dichloroethene	Ave	0.2588	0.2532	0.1000	0.0196	0.0200	-2.2	30.0
2,2-Dichloropropane	Ave	0.3219	0.3218		0.0200	0.0200	-0.0	30.0
Bromochloromethane	Ave	0.1223	0.1142		0.0187	0.0200	-6.6	30.0
Tetrahydrofuran	Ave	0.0470	0.0414		0.0352	0.0400	-11.9	30.0
Chloroform	Ave	0.3871	0.3673	0.2000	0.0190	0.0200	-5.1	30.0
1,1,1-Trichloroethane	Ave	0.3419	0.3362	0.1000	0.0197	0.0200	-1.6	30.0
Cyclohexane	Ave	0.3195	0.3491	0.1000	0.0218	0.0200	9.2	30.0
1,1-Dichloropropene	Ave	0.3034	0.2966		0.0196	0.0200	-2.2	30.0
Carbon tetrachloride	Ave	0.3037	0.2977	0.1000	0.0196	0.0200	-2.0	30.0
Isobutyl alcohol	Lin1		0.0040		0.408	0.500	-18.4	30.0
Benzene	Ave	0.9186	0.8855	0.5000	0.0193	0.0200	-3.6	30.0
1,2-Dichloroethane	Ave	0.2786	0.2608	0.1000	0.0187	0.0200	-6.4	30.0
n-Heptane	Lin1		0.1946		0.0226	0.0200	13.0	30.0
Trichloroethene	Ave	0.2729	0.2620	0.1500	0.0192	0.0200	-4.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-450378/16 Calibration Date: 09/08/2020 15:15

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31029.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3764	0.4060	0.1000	0.0216	0.0200	7.9	30.0
1,2-Dichloropropane	Ave	0.2086	0.2029	0.1000	0.0195	0.0200	-2.7	30.0
1,4-Dioxane	Ave	0.0025	0.0022		0.357	0.400	-10.7	50.0
Dibromomethane	Ave	0.1316	0.1223		0.0186	0.0200	-7.0	30.0
Bromodichloromethane	Ave	0.2770	0.2745	0.1500	0.0198	0.0200	-0.9	30.0
2-Chloroethyl vinyl ether	Ave	0.1290	0.1146		0.0178	0.0200	-11.2	30.0
cis-1,3-Dichloropropene	Ave	0.3399	0.3342	0.1500	0.0197	0.0200	-1.7	50.0
4-Methyl-2-pentanone	Ave	0.1404	0.1278	0.0500	0.0364	0.0400	-9.0	50.0
Toluene	Ave	1.254	1.218	0.4000	0.0194	0.0200	-2.9	30.0
trans-1,3-Dichloropropene	Ave	0.3909	0.3512	0.1000	0.0180	0.0200	-10.2	30.0
Ethyl methacrylate	Ave	0.2932	0.2722		0.0186	0.0200	-7.2	30.0
1,1,2-Trichloroethane	Ave	0.2394	0.2289	0.1000	0.0191	0.0200	-4.4	30.0
Tetrachloroethene	Ave	0.2814	0.2708	0.1500	0.0192	0.0200	-3.8	30.0
1,3-Dichloropropane	Ave	0.4145	0.3957		0.0191	0.0200	-4.5	30.0
2-Hexanone	Ave	0.1247	0.1078	0.0500	0.0346	0.0400	-13.6	50.0
Dibromochloromethane	Ave	0.2667	0.2578		0.0193	0.0200	-3.3	30.0
1,2-Dibromoethane	Ave	0.2447	0.2341		0.0191	0.0200	-4.3	30.0
Chlorobenzene	Ave	0.8600	0.8278	0.3000	0.0193	0.0200	-3.7	30.0
1,1,1,2-Tetrachloroethane	Ave	0.2847	0.2770		0.0195	0.0200	-2.7	30.0
Ethylbenzene	Ave	0.4675	0.4578		0.0196	0.0200	-2.1	30.0
m-Xylene & p-Xylene	Ave	0.5742	0.5611		0.0195	0.0200	-2.3	30.0
o-Xylene	Ave	0.5485	0.5397		0.0197	0.0200	-1.6	30.0
Styrene	Ave	0.9033	0.9110	0.3000	0.0202	0.0200	0.9	30.0
Bromoform	Ave	0.1818	0.1599	0.1000	0.0176	0.0200	-12.0	30.0
Isopropylbenzene	Ave	1.400	1.423	0.1000	0.0203	0.0200	1.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5099	0.4850	0.3000	0.0190	0.0200	-4.9	30.0
Bromobenzene	Ave	0.6625	0.6290		0.0190	0.0200	-5.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1459	0.1374		0.0188	0.0200	-5.8	30.0
1,2,3-Trichloropropane	Ave	0.1803	0.1687		0.0187	0.0200	-6.4	30.0
n-Propylbenzene	Ave	0.7465	0.7443		0.0199	0.0200	-0.3	30.0
2-Chlorotoluene	Ave	0.6294	0.6260		0.0199	0.0200	-0.5	30.0
1,3,5-Trimethylbenzene	Ave	2.020	2.084		0.0206	0.0200	3.2	30.0
4-Chlorotoluene	Ave	0.6506	0.6585		0.0202	0.0200	1.2	30.0
tert-Butylbenzene	Ave	1.852	1.855		0.0200	0.0200	0.2	30.0
1,2,4-Trimethylbenzene	Ave	1.990	2.075		0.0209	0.0200	4.3	30.0
sec-Butylbenzene	Ave	2.659	2.745		0.0206	0.0200	3.2	30.0
1,3-Dichlorobenzene	Ave	1.270	1.219	0.6000	0.0192	0.0200	-4.0	30.0
p-Isopropyltoluene	Ave	2.297	2.390		0.0208	0.0200	4.1	30.0
1,4-Dichlorobenzene	Ave	1.281	1.227	0.5000	0.0192	0.0200	-4.2	30.0
n-Butylbenzene	Ave	1.953	2.025		0.0207	0.0200	3.7	30.0
1,2-Dichlorobenzene	Ave	1.174	1.092	0.4000	0.0186	0.0200	-7.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-450378/16 Calibration Date: 09/08/2020 15:15

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31029.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1158	0.1072	0.0500	0.0185	0.0200	-7.4	50.0
1,2,4-Trichlorobenzene	Ave	0.6699	0.6161	0.2000	0.0184	0.0200	-8.0	50.0
Hexachlorobutadiene	Ave	0.3403	0.3373		0.0198	0.0200	-0.9	50.0
Naphthalene	Ave	1.500	1.390		0.0185	0.0200	-7.3	50.0
1,2,3-Trichlorobenzene	Ave	0.5997	0.5563		0.0186	0.0200	-7.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2180	0.2550		0.0234	0.0200	17.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2595		0.0220	0.0200	10.0	30.0
Toluene-d8 (Surr)	Ave	1.075	1.286		0.0239	0.0200	19.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.5080		0.0262	0.0200	30.9*	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31029.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Sep-2020 15:15:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-016
Operator ID: 001765 Instrument ID: A3UX16
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:53:27 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 15:37:54

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	937717	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.597	8.597	0.000	83	743116	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	412044	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	239101	20.0	23.4	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.597	-0.001	97	243383	20.0	22.0	
$	6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	955377	20.0	23.9	
$	7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	95	377533	20.0	26.2	
	9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	255660	20.0	22.1	
	10 Chloromethane	50	1.909	1.909	-0.001	99	283637	20.0	19.2	
	11 Vinyl chloride	62	2.027	2.027	0.000	98	321961	20.0	20.3	
	12 Butadiene	54	2.075	2.075	0.000	97	299229	20.0	21.4	
	13 Bromomethane	94	2.371	2.371	0.000	89	187443	20.0	18.4	
	14 Chloroethane	64	2.490	2.490	0.000	99	165464	20.0	19.6	
	15 Dichlorofluoromethane	67	2.727	2.727	0.000	97	380512	20.0	21.2	
	16 Trichlorofluoromethane	101	2.750	2.750	0.000	97	350081	20.0	22.1	
	17 Ethyl ether	59	3.035	3.035	0.000	87	141972	20.0	19.0	
	18 Acrolein	56	3.177	3.177	0.000	100	32397	100.0	57.9	
	19 1,1-Dichloroethene	96	3.260	3.260	0.000	97	187496	20.0	19.5	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	91	165184	20.0	21.8	
	21 Acetone	58	3.308	3.308	0.000	100	26717	40.0	31.9	
	23 Iodomethane	142	3.415	3.415	0.000	97	254911	20.0	17.2	
	24 Carbon disulfide	76	3.474	3.474	0.000	99	574962	20.0	18.6	
	27 Methyl acetate	43	3.604	3.604	0.000	96	205693	40.0	35.4	
	26 3-Chloro-1-propene	41	3.616	3.616	0.000	85	235848	20.0	18.7	
	28 Methylene Chloride	84	3.735	3.735	0.000	88	212021	20.0	18.6	
	29 2-Methyl-2-propanol	59	3.818	3.818	0.000	99	122303	200.0	165.3	
	30 Acrylonitrile	53	3.948	3.948	0.000	99	615641	200.0	179.3	
	31 Methyl tert-butyl ether	73	3.972	3.972	0.000	94	500717	20.0	18.8	
	32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	95	219864	20.0	19.3	
	33 Hexane	57	4.233	4.221	0.012	89	291546	20.0	23.5	
	35 Vinyl acetate	43	4.363	4.363	0.000	97	239004	20.0	15.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	332764	20.0	18.9	
40 2-Butanone (MEK)	72	4.861	4.861	0.000	98	36362	40.0	33.0	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	80	237435	20.0	19.6	
41 2,2-Dichloropropane	77	4.885	4.885	0.000	87	301777	20.0	20.0	
45 Chlorobromomethane	128	5.087	5.087	0.000	87	107118	20.0	18.7	
46 Tetrahydrofuran	42	5.087	5.087	0.000	82	77693	40.0	35.2	
47 Chloroform	83	5.158	5.158	0.000	93	344462	20.0	19.0	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	315296	20.0	19.7	
49 Cyclohexane	56	5.371	5.371	0.000	85	327336	20.0	21.8	
51 Carbon tetrachloride	117	5.442	5.442	0.000	92	279188	20.0	19.6	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	278142	20.0	19.6	
52 Isobutyl alcohol	41	5.502	5.502	0.000	94	92634	500.0	407.9	
54 Benzene	78	5.620	5.620	0.000	96	830339	20.0	19.3	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	244548	20.0	18.7	
56 n-Heptane	57	5.846	5.846	0.000	91	182434	20.0	22.6	
58 Trichloroethene	130	6.178	6.178	0.000	94	245708	20.0	19.2	
60 Methylcyclohexane	83	6.391	6.391	0.000	87	380698	20.0	21.6	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	95	190246	20.0	19.5	
64 1,4-Dioxane	88	6.462	6.462	0.000	88	41061	400.0	357.4	
63 Dibromomethane	93	6.486	6.486	0.000	90	114695	20.0	18.6	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	257392	20.0	19.8	
67 2-Chloroethyl vinyl ether	63	6.865	6.865	0.000	93	107446	20.0	17.8	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	97	313364	20.0	19.7	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	239705	40.0	36.4	
70 Toluene	91	7.316	7.316	0.000	99	904769	20.0	19.4	
71 trans-1,3-Dichloropropene	75	7.518	7.518	0.000	91	261003	20.0	18.0	
72 Ethyl methacrylate	69	7.541	7.541	0.000	87	202274	20.0	18.6	
73 1,1,2-Trichloroethane	97	7.695	7.695	0.000	90	170107	20.0	19.1	
75 Tetrachloroethene	164	7.778	7.778	0.000	97	201223	20.0	19.2	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	89	294046	20.0	19.1	
76 2-Hexanone	43	7.873	7.873	0.000	94	160159	40.0	34.6	
78 Chlorodibromomethane	129	8.051	8.051	0.000	89	191556	20.0	19.3	
80 Ethylene Dibromide	107	8.170	8.170	0.000	98	173995	20.0	19.1	
82 Chlorobenzene	112	8.620	8.620	0.000	97	615135	20.0	19.3	
84 Ethylbenzene	106	8.703	8.703	0.000	97	340215	20.0	19.6	
83 1,1,1,2-Tetrachloroethane	131	8.703	8.703	0.000	94	205875	20.0	19.5	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	416961	20.0	19.5	
86 o-Xylene	106	9.201	9.190	0.011	95	401063	20.0	19.7	
87 Styrene	104	9.213	9.213	0.000	96	676982	20.0	20.2	
88 Bromoform	173	9.403	9.403	0.000	98	118858	20.0	17.6	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	1057229	20.0	20.3	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	199842	20.0	19.0	
93 Bromobenzene	156	9.866	9.866	0.000	90	259169	20.0	19.0	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	74	56598	20.0	18.8	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	81	69494	20.0	18.7	
96 N-Propylbenzene	120	9.949	9.949	0.000	98	306690	20.0	19.9	
97 2-Chlorotoluene	126	10.043	10.043	0.000	98	257934	20.0	19.9	
99 1,3,5-Trimethylbenzene	105	10.126	10.126	0.000	94	858851	20.0	20.6	
100 4-Chlorotoluene	126	10.162	10.162	0.000	96	271314	20.0	20.2	
102 tert-Butylbenzene	119	10.435	10.435	0.000	91	764431	20.0	20.0	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	855191	20.0	20.9	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	1131105	20.0	20.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.791	0.000	98	502230	20.0	19.2	
107 4-Isopropyltoluene	119	10.814	10.814	0.000	97	984883	20.0	20.8	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	505572	20.0	19.2	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	834542	20.0	20.7	
112 1,2-Dichlorobenzene	146	11.253	11.253	0.000	99	449852	20.0	18.6	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	90	44175	20.0	18.5	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	253847	20.0	18.4	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	97	138988	20.0	19.8	
117 Naphthalene	128	13.150	13.150	0.000	96	572773	20.0	18.5	
118 1,2,3-Trichlorobenzene	180	13.399	13.399	0.000	95	229230	20.0	18.6	
S 134 Trihalomethanes, Total	1				0		80.0	75.7	
S 158 Total BTEX	1				0		100.0	97.5	
S 133 Xylenes, Total	106				0		40.0	39.2	

Reagents:

vmfasgw_00375	Amount Added: 16.00	Units: uL		
vmfasaw_00342	Amount Added: 16.00	Units: uL		
vmfaspw_00365	Amount Added: 16.00	Units: uL		
vm50is_stk_a_00007	Amount Added: 2.00	Units: uL	Run Reagent	
vmDist_H2o_00167	Amount Added: 0.00	Units:	Run Reagent	
vm50ss_stk_00085	Amount Added: 2.00	Units: uL	Run Reagent	

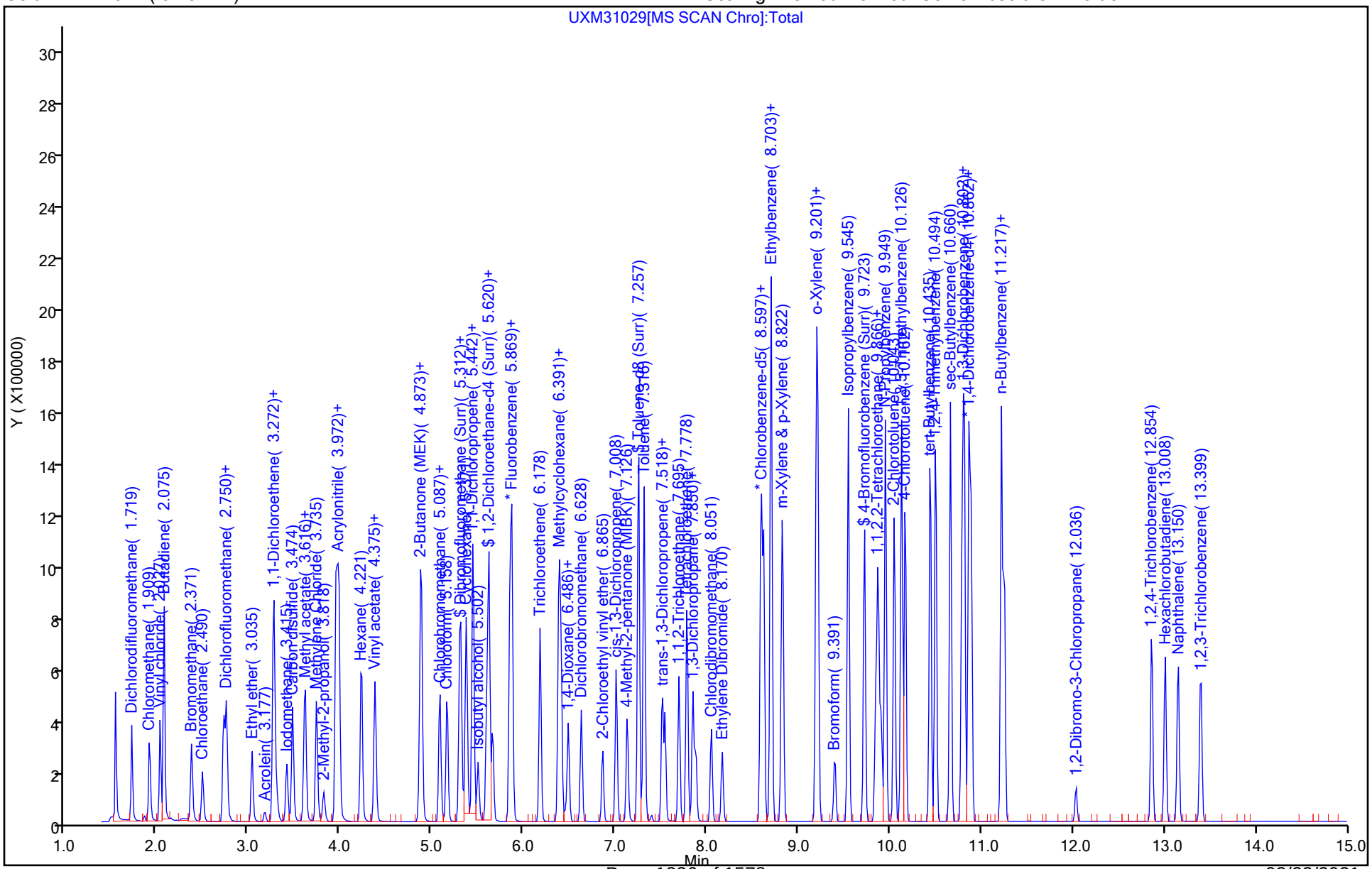
Report Date: 08-Sep-2020 15:53:38 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31029.D

Injection Date:	08-Sep-2020 15:15:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICV			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-450378/25 Calibration Date: 09/08/2020 18:58

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM31038.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2180	0.2608		0.0239	0.0200	19.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2720		0.0231	0.0200	15.3	30.0
Toluene-d8 (Surr)	Ave	1.075	1.266		0.0235	0.0200	17.7	30.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.4944		0.0255	0.0200	27.4	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31038.D
Lims ID: ICV a9
Client ID:
Sample Type: ICV
Inject. Date: 08-Sep-2020 18:58:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-025
Operator ID: 001765 Instrument ID: A3UX16
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:44 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:30:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	909527	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	734035	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	394515	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	237174	20.0	23.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.597	0.000	98	247416	20.0	23.1	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	929322	20.0	23.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	362893	20.0	25.5	
25 Acetonitrile	41	3.581	3.581	0.000	99	207090	200.0	188.7	
36 Isopropyl ether	87	4.399	4.399	0.000	90	165794	20.0	20.5	
37 2-Chloro-1,3-butadiene	53	4.435	4.446	-0.011	90	259046	20.0	19.6	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	96	478904	20.0	20.2	
43 Ethyl acetate	43	4.885	4.885	0.000	98	261214	40.0	41.2	
42 Propionitrile	54	4.921	4.921	0.000	99	254756	200.0	206.5	
44 Methacrylonitrile	41	5.051	5.051	0.000	88	930193	200.0	202.5	
163 Isooctane	57	5.703	5.703	0.000	96	502675	20.0	19.1	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	98	489103	20.0	20.9	
57 n-Butanol	56	6.059	6.059	0.000	85	86037	500.0	430.9	
59 Ethyl acrylate	55	6.225	6.225	0.000	98	180358	20.0	21.0	
62 Methyl methacrylate	41	6.427	6.427	0.000	82	239183	40.0	42.4	
66 2-Nitropropane	41	6.818	6.818	0.000	100	72320	40.0	40.1	
77 n-Butyl acetate	43	7.968	7.968	0.000	94	180420	20.0	20.1	
81 1-Chlorohexane	91	8.585	8.585	0.000	93	295396	20.0	19.3	
91 Cyclohexanone	55	9.640	9.640	0.000	89	47947	200.0	212.8	
103 Pentachloroethane	167	10.482	10.482	0.000	94	121171	40.0	33.2	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	813989	20.0	21.1	
110 Benzyl chloride	126	11.004	11.004	0.000	99	68783	20.0	16.6	
114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	98	324479	20.0	19.9	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	438412	40.0	37.3	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	419204	40.0	39.5	

Reagents:

VMFASA9W_00290	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00167	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent

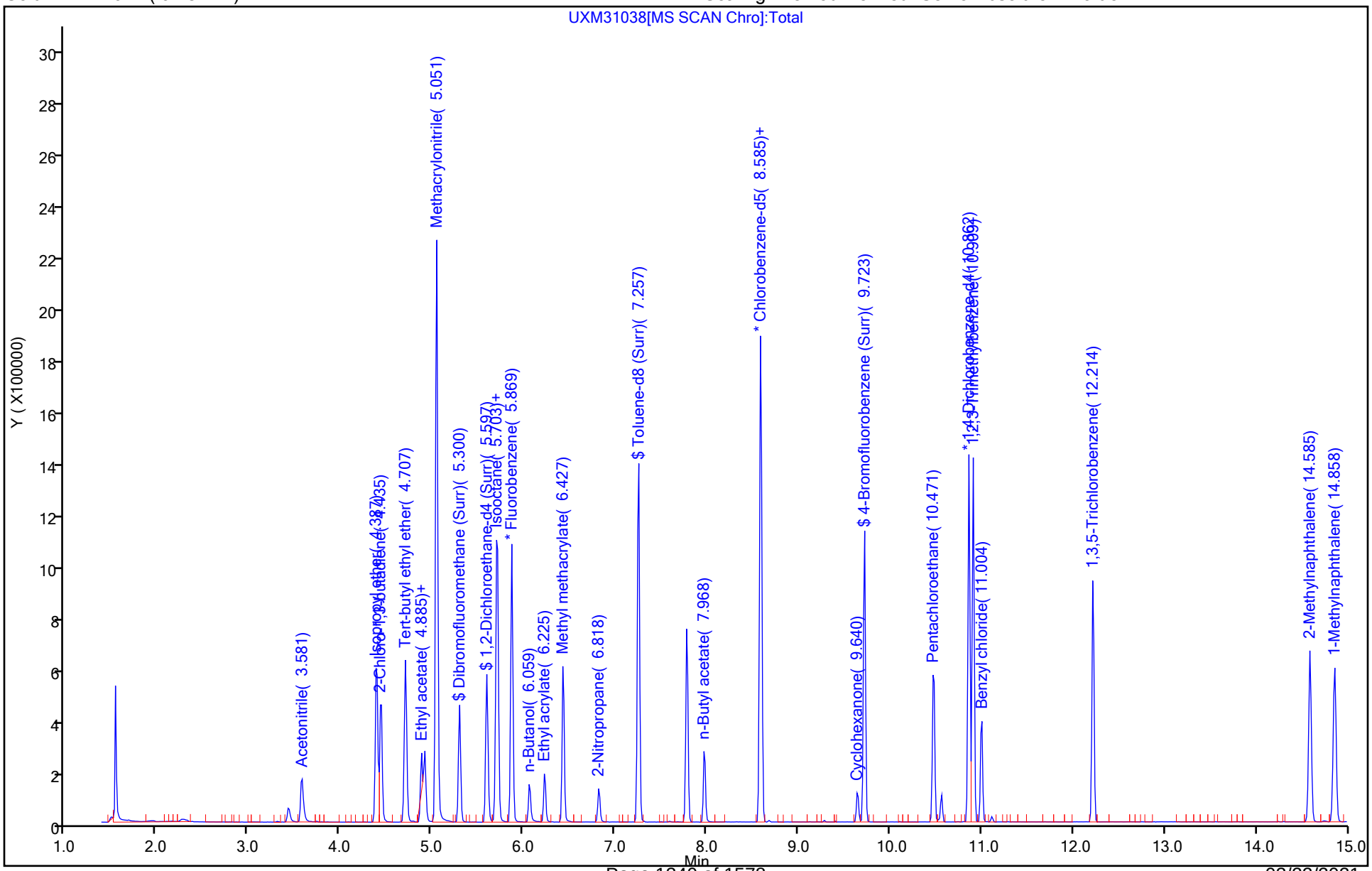
Report Date: 09-Sep-2020 08:31:46 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31038.D

Injection Date:	08-Sep-2020 18:58:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICV a9			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-450378/25 Calibration Date: 09/08/2020 18:58

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 16:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 18:33

Lab File ID: UXM31038.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0241	0.0228		0.189	0.200	-5.7	30.0
Diisopropyl ether	Ave	0.1780	0.1823		0.0205	0.0200	2.4	30.0
2-Chloro-1,3-butadiene	Ave	0.2907	0.2848		0.0196	0.0200	-2.0	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5222	0.5265		0.0202	0.0200	0.8	30.0
Ethyl acetate	Ave	0.1396	0.1436		0.0412	0.0400	2.9	30.0
Propionitrile	Ave	0.0271	0.0280		0.207	0.200	3.3	30.0
Methacrylonitrile	Ave	0.1010	0.1023		0.202	0.200	1.2	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.5149	0.5378		0.0209	0.0200	4.4	30.0
n-Butanol	Lin1		0.0038		0.431	0.500	-13.8	30.0
Ethyl acrylate	Ave	0.1885	0.1983		0.0210	0.0200	5.2	30.0
Methyl methacrylate	Ave	0.1240	0.1315		0.0424	0.0400	6.0	30.0
2-Nitropropane	Ave	0.0396	0.0398		0.0401	0.0400	0.3	30.0
n-Butyl acetate	Ave	0.1978	0.1984		0.0201	0.0200	0.3	30.0
1-Chlorohexane	Ave	0.4164	0.4024		0.0193	0.0200	-3.4	30.0
Cyclohexanone	Ave	0.0114	0.0122		0.213	0.200	6.4	30.0
Pentachloroethane	Ave	0.0994	0.0825		0.0332	0.0400	-17.0	30.0
1,2,3-Trimethylbenzene	Ave	1.959	2.063		0.0211	0.0200	5.3	30.0
Benzyl chloride	Ave	0.2096	0.1743		0.0166	0.0200	-16.8	30.0
1,3,5-Trichlorobenzene	Ave	0.8280	0.8225		0.0199	0.0200	-0.7	30.0
2-Methylnaphthalene	Ave	0.5961	0.5556		0.0373	0.0400	-6.8	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31038.D
Lims ID: ICV a9
Client ID:
Sample Type: ICV
Inject. Date: 08-Sep-2020 18:58:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-025
Operator ID: 001765 Instrument ID: A3UX16
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Sep-2020 08:31:44 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1012

First Level Reviewer: bosworthh Date: 09-Sep-2020 08:30:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	909527	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.597	8.597	0.000	84	734035	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	394515	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	237174	20.0	23.9	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.597	0.000	98	247416	20.0	23.1	
$ 6 Toluene-d8 (Surr)	98	7.257	7.257	0.000	92	929322	20.0	23.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.723	9.723	0.000	97	362893	20.0	25.5	
25 Acetonitrile	41	3.581	3.581	0.000	99	207090	200.0	188.7	
36 Isopropyl ether	87	4.399	4.399	0.000	90	165794	20.0	20.5	
37 2-Chloro-1,3-butadiene	53	4.435	4.446	-0.011	90	259046	20.0	19.6	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	96	478904	20.0	20.2	
43 Ethyl acetate	43	4.885	4.885	0.000	98	261214	40.0	41.2	
42 Propionitrile	54	4.921	4.921	0.000	99	254756	200.0	206.5	
44 Methacrylonitrile	41	5.051	5.051	0.000	88	930193	200.0	202.5	
163 Isooctane	57	5.703	5.703	0.000	96	502675	20.0	19.1	
55 Tert-amyl methyl ether	73	5.715	5.715	0.000	98	489103	20.0	20.9	
57 n-Butanol	56	6.059	6.059	0.000	85	86037	500.0	430.9	
59 Ethyl acrylate	55	6.225	6.225	0.000	98	180358	20.0	21.0	
62 Methyl methacrylate	41	6.427	6.427	0.000	82	239183	40.0	42.4	
66 2-Nitropropane	41	6.818	6.818	0.000	100	72320	40.0	40.1	
77 n-Butyl acetate	43	7.968	7.968	0.000	94	180420	20.0	20.1	
81 1-Chlorohexane	91	8.585	8.585	0.000	93	295396	20.0	19.3	
91 Cyclohexanone	55	9.640	9.640	0.000	89	47947	200.0	212.8	
103 Pentachloroethane	167	10.482	10.482	0.000	94	121171	40.0	33.2	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	97	813989	20.0	21.1	
110 Benzyl chloride	126	11.004	11.004	0.000	99	68783	20.0	16.6	
114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	98	324479	20.0	19.9	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	438412	40.0	37.3	
162 1-Methylnaphthalene	142	14.858	14.858	0.000	0	419204	40.0	39.5	

Reagents:

VMFASA9W_00290	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00007	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00167	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00085	Amount Added:	2.00	Units: uL	Run Reagent

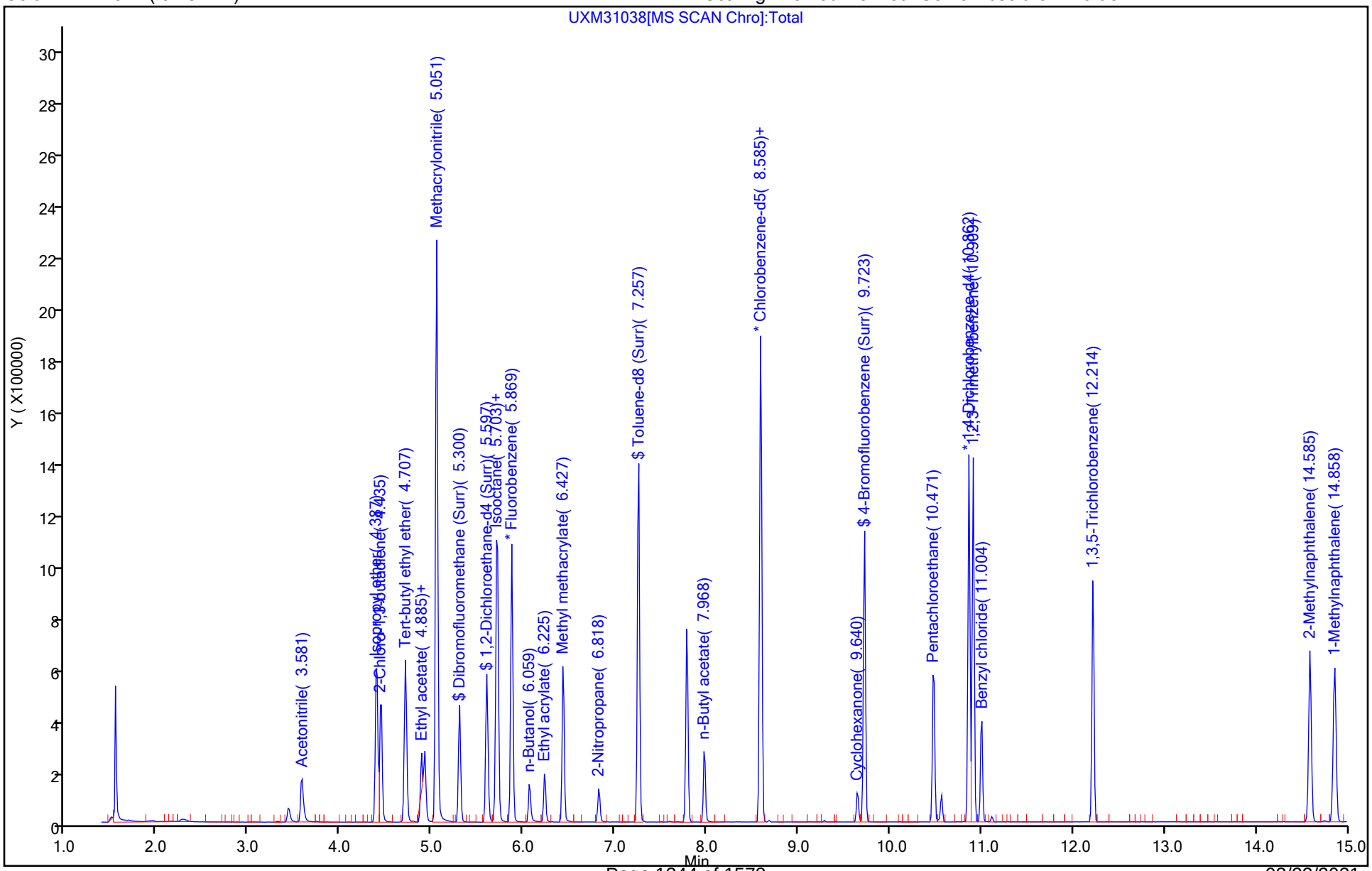
Report Date: 09-Sep-2020 08:31:46 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31038.D

Injection Date:	08-Sep-2020 18:58:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICV a9			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476369/3 Calibration Date: 03/11/2021 09:08

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM35608.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2470	0.2853	0.1000	0.0231	0.0200	15.5	20.0
Chloromethane	Ave	0.3154	0.3434	0.1000	0.0218	0.0200	8.9	20.0
Vinyl chloride	Ave	0.3384	0.3925	0.1000	0.0232	0.0200	16.0	20.0
Butadiene	Ave	0.2983	0.3476		0.0233	0.0200	16.5	20.0
Bromomethane	Ave	0.2173	0.1671	0.0500	0.0154	0.0200	-23.1*	20.0
Chloroethane	Ave	0.1802	0.1767	0.0500	0.0196	0.0200	-1.9	20.0
Dichlorofluoromethane	Ave	0.3832	0.4031		0.0210	0.0200	5.2	20.0
Trichlorofluoromethane	Ave	0.3386	0.3887	0.1000	0.0230	0.0200	14.8	20.0
Ethyl ether	Ave	0.1595	0.1572		0.0197	0.0200	-1.4	20.0
Acrolein	Ave	0.0119	0.0109		0.0918	0.100	-8.2	20.0
1,1-Dichloroethene	Ave	0.2049	0.2231	0.1000	0.0218	0.0200	8.9	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1615	0.2014	0.0500	0.0249	0.0200	24.7*	20.0
Acetone	Ave	0.0178	0.0149	0.0100	0.0335	0.0400	-16.3	50.0
Iodomethane	Ave	0.3163	0.2370		0.0150	0.0200	-25.1*	20.0
Carbon disulfide	Ave	0.6609	0.7080	0.1000	0.0214	0.0200	7.1	20.0
Methyl acetate	Ave	0.1238	0.1073	0.1000	0.0347	0.0400	-13.4	50.0
3-Chloro-1-propene	Ave	0.2690	0.3074		0.0229	0.0200	14.3	20.0
Methylene Chloride	Ave	0.2433	0.2575	0.1000	0.0212	0.0200	5.9	50.0
tert-Butyl alcohol	Ave	0.0158	0.0113		0.144	0.200	-28.2*	20.0
Acrylonitrile	Ave	0.0732	0.0699		0.191	0.200	-4.6	20.0
Methyl tert-butyl ether	Ave	0.5668	0.5100	0.1000	0.0180	0.0200	-10.0	20.0
trans-1,2-Dichloroethene	Ave	0.2425	0.2607	0.1000	0.0215	0.0200	7.5	20.0
Hexane	Ave	0.2648	0.3372		0.0255	0.0200	27.4*	20.0
Vinyl acetate	Lin1		0.2787		0.0173	0.0200	-13.4	20.0
1,1-Dichloroethane	Ave	0.3751	0.4196	0.2000	0.0224	0.0200	11.9	20.0
2-Butanone	Lin1		0.0179	0.0100	0.0305	0.0400	-23.8	50.0
2,2-Dichloropropane	Ave	0.3219	0.3596		0.0223	0.0200	11.7	20.0
cis-1,2-Dichloroethene	Ave	0.2588	0.2848	0.1000	0.0220	0.0200	10.0	20.0
Bromochloromethane	Ave	0.1223	0.1371		0.0224	0.0200	12.1	20.0
Tetrahydrofuran	Ave	0.0470	0.0397		0.0338	0.0400	-15.6	20.0
Chloroform	Ave	0.3871	0.4290	0.2000	0.0222	0.0200	10.8	20.0
1,1,1-Trichloroethane	Ave	0.3419	0.3718	0.1000	0.0218	0.0200	8.8	20.0
Cyclohexane	Ave	0.3195	0.4058	0.1000	0.0254	0.0200	27.0*	20.0
1,1-Dichloropropene	Ave	0.3034	0.3273		0.0216	0.0200	7.9	20.0
Carbon tetrachloride	Ave	0.3037	0.3320	0.1000	0.0219	0.0200	9.3	20.0
Isobutyl alcohol	Lin1		0.0032		0.330	0.500	-34.0*	20.0
Benzene	Ave	0.9186	0.9815	0.5000	0.0214	0.0200	6.8	20.0
1,2-Dichloroethane	Ave	0.2786	0.2951	0.1000	0.0212	0.0200	5.9	20.0
n-Heptane	Lin1		0.1987		0.0232	0.0200	15.8	20.0
Trichloroethene	Ave	0.2729	0.2756	0.1500	0.0202	0.0200	1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476369/3 Calibration Date: 03/11/2021 09:08

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM35608.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3764	0.4304	0.1000	0.0229	0.0200	14.4	20.0
1,2-Dichloropropane	Ave	0.2086	0.2212	0.1000	0.0212	0.0200	6.0	20.0
1,4-Dioxane	Ave	0.0025	0.0020		0.335	0.400	-16.4	50.0
Dibromomethane	Ave	0.1316	0.1347		0.0205	0.0200	2.4	20.0
Bromodichloromethane	Ave	0.2770	0.2890	0.1500	0.0209	0.0200	4.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1290	0.1039		0.0322	0.0400	-19.5	20.0
cis-1,3-Dichloropropene	Ave	0.3399	0.3327	0.1500	0.0196	0.0200	-2.1	50.0
4-Methyl-2-pentanone	Ave	0.1404	0.1093	0.0500	0.0311	0.0400	-22.2	50.0
Toluene	Ave	1.254	1.346	0.4000	0.0215	0.0200	7.4	20.0
trans-1,3-Dichloropropene	Ave	0.3909	0.3687	0.1000	0.0189	0.0200	-5.7	20.0
Ethyl methacrylate	Ave	0.2932	0.2400		0.0164	0.0200	-18.2	20.0
1,1,2-Trichloroethane	Ave	0.2394	0.2344	0.1000	0.0196	0.0200	-2.1	20.0
Tetrachloroethene	Ave	0.2814	0.2946	0.1500	0.0209	0.0200	4.7	20.0
1,3-Dichloropropane	Ave	0.4145	0.4096		0.0198	0.0200	-1.2	20.0
2-Hexanone	Ave	0.1247	0.0964	0.0500	0.0309	0.0400	-22.7	50.0
Dibromochloromethane	Ave	0.2667	0.2593		0.0194	0.0200	-2.8	20.0
1,2-Dibromoethane	Ave	0.2447	0.2364		0.0193	0.0200	-3.4	20.0
Chlorobenzene	Ave	0.8600	0.8949	0.3000	0.0208	0.0200	4.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2847	0.2797		0.0197	0.0200	-1.7	20.0
Ethylbenzene	Ave	0.4675	0.4981		0.0213	0.0200	6.5	20.0
m-Xylene & p-Xylene	Ave	0.5742	0.6246		0.0218	0.0200	8.8	20.0
o-Xylene	Ave	0.5485	0.5732		0.0209	0.0200	4.5	20.0
Styrene	Ave	0.9033	0.8634	0.3000	0.0191	0.0200	-4.4	20.0
Bromoform	Ave	0.1818	0.1483	0.1000	0.0163	0.0200	-18.4	20.0
Isopropylbenzene	Ave	1.400	1.522	0.1000	0.0217	0.0200	8.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5099	0.4265	0.3000	0.0167	0.0200	-16.4	20.0
Bromobenzene	Ave	0.6625	0.6716		0.0203	0.0200	1.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1459	0.1063		0.0146	0.0200	-27.1*	20.0
1,2,3-Trichloropropane	Ave	0.1803	0.1558		0.0173	0.0200	-13.6	20.0
n-Propylbenzene	Ave	0.7465	0.8212		0.0220	0.0200	10.0	20.0
2-Chlorotoluene	Ave	0.6294	0.6744		0.0214	0.0200	7.2	20.0
1,3,5-Trimethylbenzene	Ave	2.020	2.097		0.0208	0.0200	3.8	20.0
4-Chlorotoluene	Ave	0.6506	0.6964		0.0214	0.0200	7.0	20.0
tert-Butylbenzene	Ave	1.852	1.997		0.0216	0.0200	7.9	20.0
1,2,4-Trimethylbenzene	Ave	1.990	2.081		0.0209	0.0200	4.6	20.0
sec-Butylbenzene	Ave	2.659	2.933		0.0221	0.0200	10.3	20.0
1,3-Dichlorobenzene	Ave	1.270	1.313	0.6000	0.0207	0.0200	3.4	20.0
p-Isopropyltoluene	Ave	2.297	2.510		0.0219	0.0200	9.3	20.0
1,4-Dichlorobenzene	Ave	1.281	1.332	0.5000	0.0208	0.0200	3.9	20.0
n-Butylbenzene	Ave	1.953	2.114		0.0216	0.0200	8.2	20.0
1,2-Dichlorobenzene	Ave	1.174	1.183	0.4000	0.0201	0.0200	0.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476369/3 Calibration Date: 03/11/2021 09:08

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM35608.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1158	0.0930	0.0500	0.0161	0.0200	-19.7	50.0
1,2,4-Trichlorobenzene	Ave	0.6699	0.6007	0.2000	0.0179	0.0200	-10.3	50.0
Hexachlorobutadiene	Ave	0.3403	0.3143		0.0185	0.0200	-7.6	50.0
Naphthalene	Ave	1.500	1.335		0.0178	0.0200	-11.0	50.0
1,2,3-Trichlorobenzene	Ave	0.5997	0.5358		0.0179	0.0200	-10.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2180	0.2048		0.0234	0.0249	-6.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2120		0.0224	0.0249	-10.2	20.0
Toluene-d8 (Surr)	Ave	1.075	0.9752		0.0226	0.0249	-9.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.4055		0.0260	0.0249	4.5	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35608.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Mar-2021 09:08:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-003
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 09:51:15 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: bosworthh Date: 11-Mar-2021 09:28:28

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.869	5.869	0.000	99	1347751	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.585	8.585	0.000	85	1028829	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	92	583115	20.0	20.0	
$	4 Dibromofluoromethane (Surr)	113	5.288	5.288	0.000	94	343885	24.9	23.4	
$	5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	97	356016	24.9	22.4	
$	6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1250103	24.9	22.6	
$	7 4-Bromofluorobenzene (Surr)	95	9.712	9.712	0.000	95	519760	24.9	26.0	
	9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	384517	20.0	23.1	
	10 Chloromethane	50	1.909	1.909	0.000	99	462751	20.0	21.8	
	11 Vinyl chloride	62	2.027	2.027	0.000	98	529008	20.0	23.2	
	12 Butadiene	54	2.063	2.063	0.000	98	468457	20.0	23.3	
	13 Bromomethane	94	2.371	2.371	0.000	90	225260	20.0	15.4	
	14 Chloroethane	64	2.490	2.490	0.000	99	238176	20.0	19.6	
	15 Dichlorofluoromethane	67	2.715	2.715	0.000	97	543256	20.0	21.0	
	16 Trichlorofluoromethane	101	2.751	2.751	0.000	98	523835	20.0	23.0	
	17 Ethyl ether	59	3.023	3.023	0.000	88	211907	20.0	19.7	
	18 Acrolein	56	3.166	3.166	0.000	99	73779	100.0	91.8	
	19 1,1-Dichloroethene	96	3.261	3.261	0.000	97	300722	20.0	21.8	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	91	271412	20.0	24.9	
	21 Acetone	58	3.296	3.296	0.000	100	40268	40.0	33.5	
	23 Iodomethane	142	3.403	3.403	0.000	97	319437	20.0	15.0	
	24 Carbon disulfide	76	3.474	3.474	0.000	99	954170	20.0	21.4	
	27 Methyl acetate	43	3.593	3.593	0.000	96	289189	40.0	34.7	
	26 3-Chloro-1-propene	41	3.604	3.604	0.000	89	414343	20.0	22.9	
	28 Methylene Chloride	84	3.735	3.735	0.000	88	347078	20.0	21.2	
	29 2-Methyl-2-propanol	59	3.806	3.806	0.000	99	152695	200.0	143.6	
	30 Acrylonitrile	53	3.948	3.948	0.000	100	941638	200.0	190.9	
	31 Methyl tert-butyl ether	73	3.960	3.960	0.000	94	687345	20.0	18.0	
	32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	96	351387	20.0	21.5	
	33 Hexane	57	4.221	4.221	0.000	89	454464	20.0	25.5	
	35 Vinyl acetate	43	4.363	4.363	0.000	97	375614	20.0	17.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	565475	20.0	22.4	
40 2-Butanone (MEK)	72	4.850	4.850	0.000	97	48181	40.0	30.5	
41 2,2-Dichloropropane	77	4.873	4.873	0.000	86	484691	20.0	22.3	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	80	383823	20.0	22.0	
45 Chlorobromomethane	128	5.075	5.075	0.000	92	184784	20.0	22.4	
46 Tetrahydrofuran	42	5.087	5.087	0.000	83	107009	40.0	33.8	
47 Chloroform	83	5.158	5.158	0.000	93	578118	20.0	22.2	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	501112	20.0	21.8	
49 Cyclohexane	56	5.371	5.371	0.000	86	546907	20.0	25.4	
51 Carbon tetrachloride	117	5.442	5.442	0.000	93	447401	20.0	21.9	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	441133	20.0	21.6	
52 Isobutyl alcohol	41	5.490	5.490	0.000	94	107288	500.0	330.1	
54 Benzene	78	5.620	5.620	0.000	95	1322760	20.0	21.4	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	397666	20.0	21.2	
56 n-Heptane	57	5.846	5.846	0.000	86	267766	20.0	23.2	
58 Trichloroethene	130	6.178	6.178	0.000	95	371476	20.0	20.2	
60 Methylcyclohexane	83	6.379	6.379	0.000	88	580033	20.0	22.9	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	96	298072	20.0	21.2	
64 1,4-Dioxane	88	6.450	6.450	0.000	88	55250	400.0	334.6	
63 Dibromomethane	93	6.486	6.486	0.000	92	181524	20.0	20.5	
65 Dichlorobromomethane	83	6.628	6.628	0.000	100	389514	20.0	20.9	
67 2-Chloroethyl vinyl ether	63	6.854	6.854	0.000	92	280063	40.0	32.2	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	448357	20.0	19.6	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	294605	40.0	31.1	
70 Toluene	91	7.316	7.316	0.000	99	1385244	20.0	21.5	
71 trans-1,3-Dichloropropene	75	7.506	7.506	0.000	92	379332	20.0	18.9	
72 Ethyl methacrylate	69	7.541	7.541	0.000	86	246882	20.0	16.4	
73 1,1,2-Trichloroethane	97	7.696	7.696	0.000	88	241141	20.0	19.6	
75 Tetrachloroethene	164	7.779	7.779	0.000	98	303070	20.0	20.9	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	89	421448	20.0	19.8	
76 2-Hexanone	43	7.873	7.873	0.000	92	198392	40.0	30.9	
78 Chlorodibromomethane	129	8.039	8.039	0.000	89	266792	20.0	19.4	
80 Ethylene Dibromide	107	8.158	8.158	0.000	99	243185	20.0	19.3	
82 Chlorobenzene	112	8.621	8.621	0.000	97	920706	20.0	20.8	
83 1,1,1,2-Tetrachloroethane	131	8.692	8.692	0.000	95	287797	20.0	19.7	
84 Ethylbenzene	106	8.704	8.704	0.000	98	512438	20.0	21.3	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	97	642642	20.0	21.8	
86 o-Xylene	106	9.190	9.190	0.000	97	589765	20.0	20.9	
87 Styrene	104	9.213	9.213	0.000	95	888320	20.0	19.1	
88 Bromoform	173	9.391	9.391	0.000	95	152546	20.0	16.3	
89 Isopropylbenzene	105	9.546	9.546	0.000	94	1565684	20.0	21.7	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	248696	20.0	16.7	
93 Bromobenzene	156	9.866	9.866	0.000	89	391592	20.0	20.3	
94 trans-1,4-Dichloro-2-butene	53	9.878	9.878	0.000	87	62011	20.0	14.6	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	81	90851	20.0	17.3	
96 N-Propylbenzene	120	9.949	9.949	0.000	98	478852	20.0	22.0	
97 2-Chlorotoluene	126	10.044	10.044	0.000	98	393270	20.0	21.4	
99 1,3,5-Trimethylbenzene	105	10.127	10.127	0.000	94	1223030	20.0	20.8	
100 4-Chlorotoluene	126	10.162	10.162	0.000	96	406080	20.0	21.4	
102 tert-Butylbenzene	119	10.435	10.435	0.000	91	1164716	20.0	21.6	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	1213697	20.0	20.9	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	1709996	20.0	22.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.779	10.779	0.000	98	765694	20.0	20.7	
107 4-Isopropyltoluene	119	10.803	10.803	0.000	97	1463590	20.0	21.9	
108 1,4-Dichlorobenzene	146	10.886	10.886	0.000	96	776542	20.0	20.8	
111 n-Butylbenzene	91	11.218	11.218	0.000	97	1232455	20.0	21.6	
112 1,2-Dichlorobenzene	146	11.241	11.241	0.000	99	689831	20.0	20.1	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	92	54205	20.0	16.1	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	350268	20.0	17.9	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	96	183255	20.0	18.5	
117 Naphthalene	128	13.139	13.139	0.000	97	778354	20.0	17.8	
118 1,2,3-Trichlorobenzene	180	13.388	13.388	0.000	96	312427	20.0	17.9	
S 134 Trihalomethanes, Total	1				0		80.0	78.8	
S 158 Total BTEX	1				0		100.0	106.8	
S 133 Xylenes, Total	106				0		40.0	42.7	

QC Flag Legend

Processing Flags

Reagents:

vmrprimw_00426	Amount Added: 16.00	Units: uL	
vmrgas_00376	Amount Added: 16.00	Units: uL	
vmarolistdw_00383	Amount Added: 16.00	Units: uL	
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added: 0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added: 2.49	Units: uL	Run Reagent

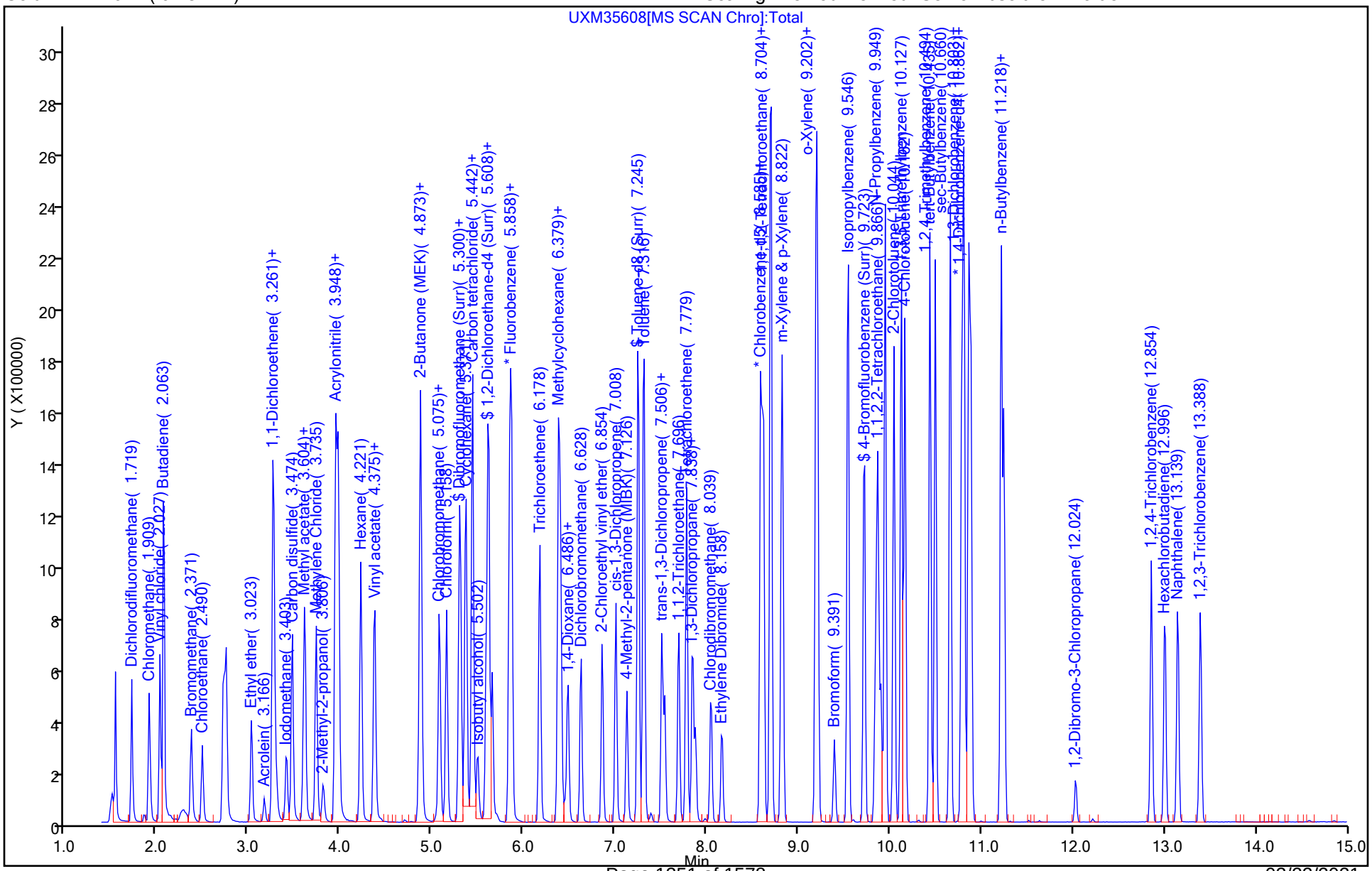
Report Date: 11-Mar-2021 09:51:16 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35608.D

Injection Date:	11-Mar-2021 09:08:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCV 240-476369/4 Calibration Date: 03/11/2021 09:32

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 16:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 18:33

Lab File ID: UXM35609.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0241	0.0266		0.220	0.200	10.2	20.0
Diisopropyl ether	Ave	0.1780	0.1739		0.0195	0.0200	-2.3	20.0
2-Chloro-1,3-butadiene	Ave	0.2907	0.3109		0.0214	0.0200	7.0	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5222	0.4939		0.0189	0.0200	-5.4	20.0
Ethyl acetate	Ave	0.1396	0.1213		0.0348	0.0400	-13.1	20.0
Propionitrile	Ave	0.0271	0.0264		0.195	0.200	-2.6	20.0
Methacrylonitrile	Ave	0.1010	0.0939		0.186	0.200	-7.0	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.5149	0.4572		0.0178	0.0200	-11.2	20.0
n-Butanol	Lin1		0.0027		0.310	0.500	-38.1*	20.0
Ethyl acrylate	Ave	0.1885	0.1679		0.0178	0.0200	-11.0	20.0
Methyl methacrylate	Ave	0.1240	0.1218		0.0393	0.0400	-1.8	20.0
2-Nitropropane	Ave	0.0396	0.0333		0.0336	0.0400	-15.9	20.0
n-Butyl acetate	Ave	0.1978	0.1768		0.0179	0.0200	-10.6	20.0
1-Chlorohexane	Ave	0.4164	0.4346		0.0209	0.0200	4.4	20.0
Cyclohexanone	Ave	0.0114	0.0113		0.197	0.200	-1.5	20.0
Pentachloroethane	Ave	0.0994	0.1666		0.0670	0.0400	67.6*	20.0
1,2,3-Trimethylbenzene	Ave	1.959	1.937		0.0198	0.0200	-1.1	20.0
Benzyl chloride	Ave	0.2096	0.1998		0.0191	0.0200	-4.7	20.0
1,3,5-Trichlorobenzene	Ave	0.8280	0.7911		0.0191	0.0200	-4.5	20.0
2-Methylnaphthalene	Ave	0.5961	0.6286		0.0422	0.0400	5.5	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35609.D
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 11-Mar-2021 09:32:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-004
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 09:51:46 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: bosworthh Date: 11-Mar-2021 09:51:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	1253494	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	84	997576	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	534232	20.0	20.0	
25 Acetonitrile	41	3.569	3.569	0.000	99	333366	200.0	220.4	
36 Isopropyl ether	87	4.387	4.387	0.000	92	217998	20.0	19.5	
37 2-Chloro-1,3-butadiene	53	4.434	4.434	0.000	90	389765	20.0	21.4	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	97	619124	20.0	18.9	
43 Ethyl acetate	43	4.873	4.873	0.000	98	304219	40.0	34.8	
42 Propionitrile	54	4.921	4.921	0.000	99	331182	200.0	194.8	
44 Methacrylonitrile	41	5.039	5.039	0.000	90	1177381	200.0	186.0	
163 Isooctane	57	5.703	5.703	0.000	96	842995	20.0	23.3	
55 Tert-amyl methyl ether	73	5.703	5.703	0.000	97	573080	20.0	17.8	
57 n-Butanol	56	6.059	6.059	0.000	87	83731	500.0	309.6	
59 Ethyl acrylate	55	6.225	6.225	0.000	99	210423	20.0	17.8	
62 Methyl methacrylate	41	6.427	6.427	0.000	84	305329	40.0	39.3	
66 2-Nitropropane	41	6.818	6.818	0.000	97	83572	40.0	33.6	
77 n-Butyl acetate	43	7.968	7.968	0.000	94	221606	20.0	17.9	
81 1-Chlorohexane	91	8.585	8.585	0.000	95	433525	20.0	20.9	
91 Cyclohexanone	55	9.640	9.640	0.000	89	60111	200.0	197.0	
103 Pentachloroethane	167	10.470	10.470	0.000	93	332412	40.0	67.0	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	96	1034907	20.0	19.8	
110 Benzyl chloride	126	10.992	10.992	0.000	99	106730	20.0	19.1	
114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	98	422648	20.0	19.1	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	93	671669	40.0	42.2	
162 1-Methylnaphthalene	142	14.846	14.846	0.000	0	624194	40.0	43.4	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00382	Amount Added:	16.00	Units: uL
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL

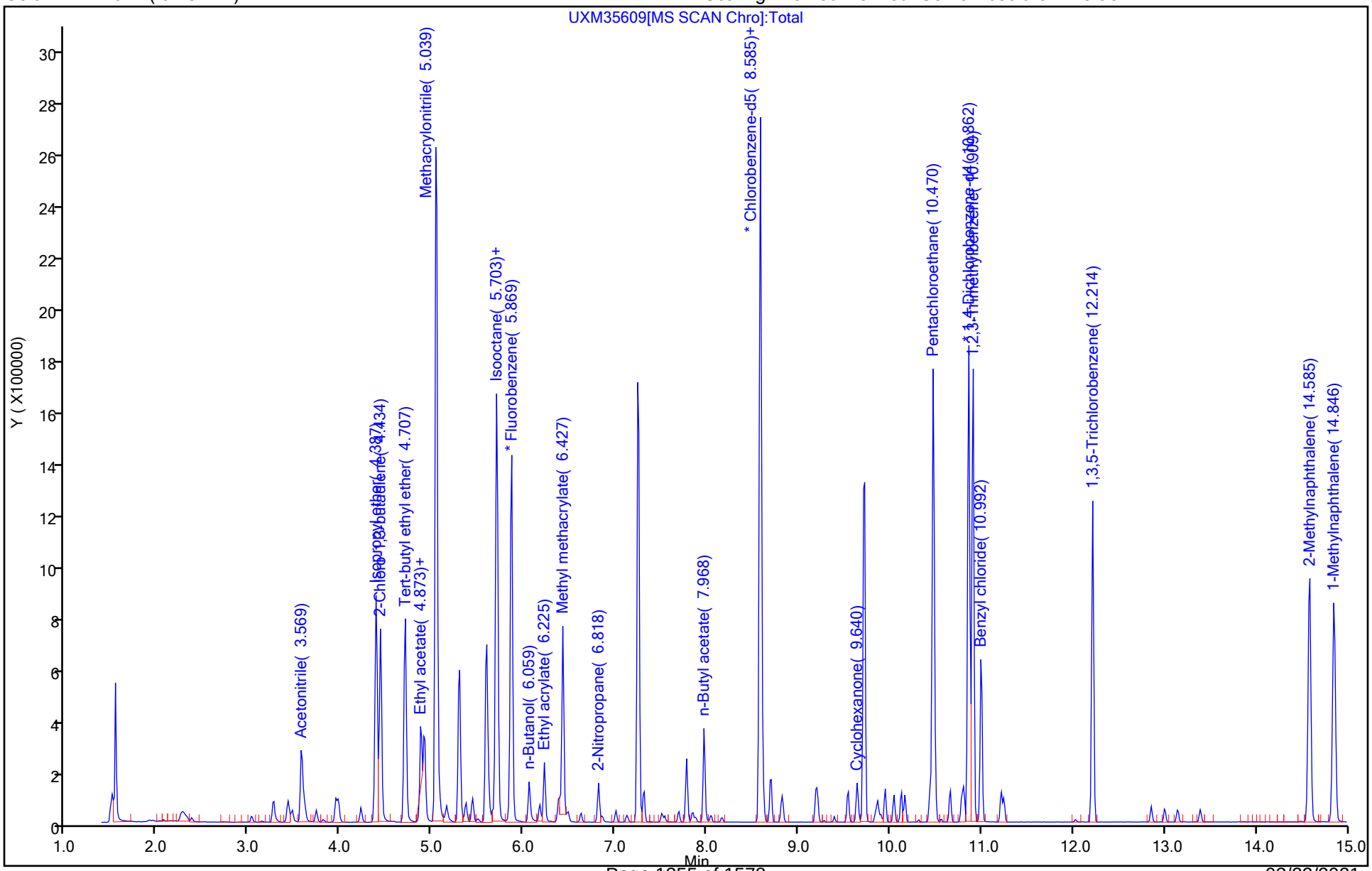
Report Date: 11-Mar-2021 09:51:47 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35609.D

Injection Date:	11-Mar-2021 09:32:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	CCV A9			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476975/3 Calibration Date: 03/16/2021 10:39

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM35681.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2470	0.3035	0.1000	0.0246	0.0200	22.9*	20.0
Chloromethane	Ave	0.3154	0.3877	0.1000	0.0246	0.0200	22.9*	20.0
Vinyl chloride	Ave	0.3384	0.4424	0.1000	0.0261	0.0200	30.7*	20.0
Butadiene	Ave	0.2983	0.4015		0.0269	0.0200	34.6*	20.0
Bromomethane	Ave	0.2173	0.2199	0.0500	0.0202	0.0200	1.2	20.0
Chloroethane	Ave	0.1802	0.2021	0.0500	0.0224	0.0200	12.2	20.0
Dichlorofluoromethane	Ave	0.3832	0.4543		0.0237	0.0200	18.6	20.0
Trichlorofluoromethane	Ave	0.3386	0.4033	0.1000	0.0238	0.0200	19.1	20.0
Ethyl ether	Ave	0.1595	0.1782		0.0223	0.0200	11.7	20.0
Acrolein	Ave	0.0119	0.0124		0.104	0.100	3.5	20.0
1,1-Dichloroethene	Ave	0.2049	0.2239	0.1000	0.0219	0.0200	9.3	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1615	0.2029	0.0500	0.0251	0.0200	25.6*	20.0
Acetone	Ave	0.0178	0.0160	0.0100	0.0358	0.0400	-10.4	50.0
Iodomethane	Ave	0.3163	0.2246		0.0142	0.0200	-29.0*	20.0
Carbon disulfide	Ave	0.6609	0.7334	0.1000	0.0222	0.0200	11.0	20.0
Methyl acetate	Ave	0.1238	0.1257	0.1000	0.0406	0.0400	1.5	50.0
3-Chloro-1-propene	Ave	0.2690	0.3411		0.0254	0.0200	26.8*	20.0
Methylene Chloride	Ave	0.2433	0.2459	0.1000	0.0202	0.0200	1.1	50.0
tert-Butyl alcohol	Ave	0.0158	0.0155		0.197	0.200	-1.6	20.0
Acrylonitrile	Ave	0.0732	0.0798		0.218	0.200	8.9	20.0
Methyl tert-butyl ether	Ave	0.5668	0.5845	0.1000	0.0206	0.0200	3.1	20.0
trans-1,2-Dichloroethene	Ave	0.2425	0.2585	0.1000	0.0213	0.0200	6.6	20.0
Hexane	Ave	0.2648	0.3937		0.0297	0.0200	48.7*	20.0
Vinyl acetate	Lin1		0.3820		0.0236	0.0200	18.1	20.0
1,1-Dichloroethane	Ave	0.3751	0.4351	0.2000	0.0232	0.0200	16.0	20.0
2-Butanone	Lin1		0.0202	0.0100	0.0343	0.0400	-14.2	50.0
2,2-Dichloropropane	Ave	0.3219	0.3723		0.0231	0.0200	15.6	20.0
cis-1,2-Dichloroethene	Ave	0.2588	0.2685	0.1000	0.0207	0.0200	3.7	20.0
Bromochloromethane	Ave	0.1223	0.1250		0.0204	0.0200	2.2	20.0
Tetrahydrofuran	Ave	0.0470	0.0510		0.0434	0.0400	8.5	20.0
Chloroform	Ave	0.3871	0.4082	0.2000	0.0211	0.0200	5.4	20.0
1,1,1-Trichloroethane	Ave	0.3419	0.3587	0.1000	0.0210	0.0200	4.9	20.0
Cyclohexane	Ave	0.3195	0.4551	0.1000	0.0285	0.0200	42.4*	20.0
1,1-Dichloropropene	Ave	0.3034	0.3470		0.0229	0.0200	14.4	20.0
Carbon tetrachloride	Ave	0.3037	0.3132	0.1000	0.0206	0.0200	3.1	20.0
Isobutyl alcohol	Lin1		0.0046		0.472	0.500	-5.6	20.0
Benzene	Ave	0.9186	0.9899	0.5000	0.0216	0.0200	7.8	20.0
1,2-Dichloroethane	Ave	0.2786	0.3065	0.1000	0.0220	0.0200	10.0	20.0
n-Heptane	Lin1		0.2248		0.0267	0.0200	33.5*	20.0
Trichloroethene	Ave	0.2729	0.2606	0.1500	0.0191	0.0200	-4.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476975/3 Calibration Date: 03/16/2021 10:39

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM35681.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3764	0.4641	0.1000	0.0247	0.0200	23.3*	20.0
1,2-Dichloropropane	Ave	0.2086	0.2343	0.1000	0.0225	0.0200	12.3	20.0
1,4-Dioxane	Ave	0.0025	0.0024		0.395	0.400	-1.3	50.0
Dibromomethane	Ave	0.1316	0.1314		0.0200	0.0200	-0.1	20.0
Bromodichloromethane	Ave	0.2770	0.2962	0.1500	0.0214	0.0200	6.9	20.0
2-Chloroethyl vinyl ether	Ave	0.1290	0.1205		0.0374	0.0400	-6.6	20.0
cis-1,3-Dichloropropene	Ave	0.3399	0.3608	0.1500	0.0212	0.0200	6.2	50.0
4-Methyl-2-pentanone	Ave	0.1404	0.1449	0.0500	0.0413	0.0400	3.2	50.0
Toluene	Ave	1.254	1.406	0.4000	0.0224	0.0200	12.1	20.0
trans-1,3-Dichloropropene	Ave	0.3909	0.4275	0.1000	0.0219	0.0200	9.4	20.0
Ethyl methacrylate	Ave	0.2932	0.2967		0.0202	0.0200	1.2	20.0
1,1,2-Trichloroethane	Ave	0.2394	0.2454	0.1000	0.0205	0.0200	2.5	20.0
Tetrachloroethene	Ave	0.2814	0.2913	0.1500	0.0207	0.0200	3.5	20.0
1,3-Dichloropropane	Ave	0.4145	0.4681		0.0226	0.0200	12.9	20.0
2-Hexanone	Ave	0.1247	0.1377	0.0500	0.0442	0.0400	10.4	50.0
Dibromochloromethane	Ave	0.2667	0.2762		0.0207	0.0200	3.6	20.0
1,2-Dibromoethane	Ave	0.2447	0.2498		0.0204	0.0200	2.1	20.0
Chlorobenzene	Ave	0.8600	0.8971	0.3000	0.0209	0.0200	4.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2847	0.2825		0.0198	0.0200	-0.8	20.0
Ethylbenzene	Ave	0.4675	0.4937		0.0211	0.0200	5.6	20.0
m-Xylene & p-Xylene	Ave	0.5742	0.6140		0.0214	0.0200	6.9	20.0
o-Xylene	Ave	0.5485	0.5763		0.0210	0.0200	5.1	20.0
Styrene	Ave	0.9033	0.8750	0.3000	0.0194	0.0200	-3.1	20.0
Bromoform	Ave	0.1818	0.1615	0.1000	0.0178	0.0200	-11.1	20.0
Isopropylbenzene	Ave	1.400	1.531	0.1000	0.0219	0.0200	9.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5099	0.5218	0.3000	0.0205	0.0200	2.3	20.0
Bromobenzene	Ave	0.6625	0.6792		0.0205	0.0200	2.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1459	0.1502		0.0206	0.0200	3.0	20.0
1,2,3-Trichloropropane	Ave	0.1803	0.1719		0.0191	0.0200	-4.7	20.0
n-Propylbenzene	Ave	0.7465	0.8348		0.0224	0.0200	11.8	20.0
2-Chlorotoluene	Ave	0.6294	0.6827		0.0217	0.0200	8.5	20.0
1,3,5-Trimethylbenzene	Ave	2.020	2.208		0.0219	0.0200	9.3	20.0
4-Chlorotoluene	Ave	0.6506	0.7103		0.0218	0.0200	9.2	20.0
tert-Butylbenzene	Ave	1.852	2.054		0.0222	0.0200	10.9	20.0
1,2,4-Trimethylbenzene	Ave	1.990	2.190		0.0220	0.0200	10.1	20.0
sec-Butylbenzene	Ave	2.659	3.095		0.0233	0.0200	16.4	20.0
1,3-Dichlorobenzene	Ave	1.270	1.303	0.6000	0.0205	0.0200	2.6	20.0
p-Isopropyltoluene	Ave	2.297	2.555		0.0223	0.0200	11.3	20.0
1,4-Dichlorobenzene	Ave	1.281	1.301	0.5000	0.0203	0.0200	1.5	20.0
n-Butylbenzene	Ave	1.953	2.294		0.0235	0.0200	17.4	20.0
1,2-Dichlorobenzene	Ave	1.174	1.189	0.4000	0.0202	0.0200	1.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476975/3 Calibration Date: 03/16/2021 10:39

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 12:22

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 14:50

Lab File ID: UXM35681.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1158	0.1070	0.0500	0.0185	0.0200	-7.6	50.0
1,2,4-Trichlorobenzene	Ave	0.6699	0.6782	0.2000	0.0202	0.0200	1.2	50.0
Hexachlorobutadiene	Ave	0.3403	0.3450		0.0203	0.0200	1.4	50.0
Naphthalene	Ave	1.500	1.535		0.0205	0.0200	2.4	50.0
1,2,3-Trichlorobenzene	Ave	0.5997	0.6000		0.0200	0.0200	0.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2180	0.1935		0.0221	0.0249	-11.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2360	0.2140		0.0226	0.0249	-9.3	20.0
Toluene-d8 (Surr)	Ave	1.075	1.032		0.0239	0.0249	-4.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3881	0.4259		0.0273	0.0249	9.7	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35681.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Mar-2021 10:39:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-003
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 11:10:57 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1613

First Level Reviewer: bosworthh Date: 16-Mar-2021 11:10:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1376920	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	85	997536	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	540906	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	332016	24.9	22.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	367195	24.9	22.6	
$ 6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	93	1283106	24.9	23.9	
$ 7 4-Bromofluorobenzene (Surr)	95	9.711	9.711	0.000	92	529311	24.9	27.3	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	417840	20.0	24.6	
10 Chloromethane	50	1.909	1.909	0.000	99	533826	20.0	24.6	
11 Vinyl chloride	62	2.027	2.027	0.000	99	609165	20.0	26.1	
12 Butadiene	54	2.063	2.063	0.000	98	552838	20.0	26.9	
13 Bromomethane	94	2.371	2.371	0.000	90	302760	20.0	20.2	
14 Chloroethane	64	2.490	2.490	0.000	100	278344	20.0	22.4	
15 Dichlorofluoromethane	67	2.715	2.715	0.000	99	625599	20.0	23.7	
16 Trichlorofluoromethane	101	2.751	2.751	0.000	98	555250	20.0	23.8	
17 Ethyl ether	59	3.023	3.023	0.000	91	245360	20.0	22.3	
18 Acrolein	56	3.166	3.166	0.000	99	85033	100.0	103.5	
19 1,1-Dichloroethene	96	3.260	3.260	0.000	98	308334	20.0	21.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	91	279310	20.0	25.1	
21 Acetone	58	3.308	3.296	0.012	100	44024	40.0	35.8	
23 Iodomethane	142	3.415	3.415	0.000	97	309234	20.0	14.2	
24 Carbon disulfide	76	3.474	3.474	0.000	99	1009771	20.0	22.2	
27 Methyl acetate	43	3.592	3.592	0.000	97	346257	40.0	40.6	
26 3-Chloro-1-propene	41	3.604	3.604	0.000	89	469613	20.0	25.4	
28 Methylene Chloride	84	3.735	3.735	0.000	91	338527	20.0	20.2	
29 2-Methyl-2-propanol	59	3.806	3.806	0.000	99	213670	200.0	196.7	
30 Acrylonitrile	53	3.948	3.948	0.000	100	1098143	200.0	217.9	
31 Methyl tert-butyl ether	73	3.960	3.960	0.000	94	804770	20.0	20.6	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	99	355939	20.0	21.3	
33 Hexane	57	4.221	4.221	0.000	89	542144	20.0	29.7	
35 Vinyl acetate	43	4.363	4.363	0.000	97	526023	20.0	23.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	599061	20.0	23.2	
40 2-Butanone (MEK)	72	4.849	4.849	0.000	99	55631	40.0	34.3	
41 2,2-Dichloropropane	77	4.873	4.873	0.000	87	512565	20.0	23.1	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	82	369715	20.0	20.7	
45 Chlorobromomethane	128	5.075	5.075	0.000	97	172076	20.0	20.4	
46 Tetrahydrofuran	42	5.087	5.087	0.000	85	140463	40.0	43.4	
47 Chloroform	83	5.158	5.158	0.000	94	562047	20.0	21.1	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	99	493850	20.0	21.0	
49 Cyclohexane	56	5.371	5.371	0.000	88	626573	20.0	28.5	
51 Carbon tetrachloride	117	5.442	5.442	0.000	87	431216	20.0	20.6	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	477858	20.0	22.9	
52 Isobutyl alcohol	41	5.502	5.502	0.000	93	157814	500.0	472.1	
54 Benzene	78	5.620	5.620	0.000	96	1363058	20.0	21.6	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	421984	20.0	22.0	
56 n-Heptane	57	5.846	5.846	0.000	88	309466	20.0	26.7	
58 Trichloroethene	130	6.178	6.178	0.000	97	358862	20.0	19.1	
60 Methylcyclohexane	83	6.379	6.379	0.000	89	639048	20.0	24.7	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	95	322658	20.0	22.5	
64 1,4-Dioxane	88	6.450	6.450	0.000	90	66613	400.0	394.8	
63 Dibromomethane	93	6.486	6.486	0.000	93	180921	20.0	20.0	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	407825	20.0	21.4	
67 2-Chloroethyl vinyl ether	63	6.854	6.854	0.000	92	331728	40.0	37.4	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	496794	20.0	21.2	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	96	399014	40.0	41.3	
70 Toluene	91	7.316	7.316	0.000	98	1402689	20.0	22.4	
71 trans-1,3-Dichloropropene	75	7.506	7.506	0.000	95	426479	20.0	21.9	
72 Ethyl methacrylate	69	7.541	7.541	0.000	87	295988	20.0	20.2	
73 1,1,2-Trichloroethane	97	7.696	7.696	0.000	91	244801	20.0	20.5	
75 Tetrachloroethene	164	7.779	7.779	0.000	99	290559	20.0	20.7	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	88	466964	20.0	22.6	
76 2-Hexanone	43	7.873	7.873	0.000	94	274692	40.0	44.2	
78 Chlorodibromomethane	129	8.051	8.051	0.000	90	275536	20.0	20.7	
80 Ethylene Dibromide	107	8.158	8.158	0.000	99	249210	20.0	20.4	
82 Chlorobenzene	112	8.620	8.620	0.000	95	894903	20.0	20.9	
83 1,1,1,2-Tetrachloroethane	131	8.692	8.692	0.000	94	281817	20.0	19.8	
84 Ethylbenzene	106	8.703	8.703	0.000	98	492453	20.0	21.1	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	612473	20.0	21.4	
86 o-Xylene	106	9.190	9.190	0.000	97	574904	20.0	21.0	
87 Styrene	104	9.213	9.213	0.000	96	872847	20.0	19.4	
88 Bromoform	173	9.391	9.391	0.000	96	161145	20.0	17.8	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	1526770	20.0	21.9	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	94	282269	20.0	20.5	
93 Bromobenzene	156	9.866	9.866	0.000	93	367364	20.0	20.5	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	81	81246	20.0	20.6	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	81	92967	20.0	19.1	
96 N-Propylbenzene	120	9.949	9.949	0.000	99	451529	20.0	22.4	
97 2-Chlorotoluene	126	10.043	10.043	0.000	97	369269	20.0	21.7	
99 1,3,5-Trimethylbenzene	105	10.127	10.127	0.000	94	1194548	20.0	21.9	
100 4-Chlorotoluene	126	10.162	10.162	0.000	97	384199	20.0	21.8	
102 tert-Butylbenzene	119	10.435	10.435	0.000	93	1111162	20.0	22.2	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	97	1184739	20.0	22.0	
105 sec-Butylbenzene	105	10.660	10.660	0.000	94	1673976	20.0	23.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.791	10.791	0.000	98	704815	20.0	20.5	
107 4-Isopropyltoluene	119	10.802	10.802	0.000	97	1382159	20.0	22.3	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	95	703659	20.0	20.3	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	1240782	20.0	23.5	
112 1,2-Dichlorobenzene	146	11.241	11.241	0.000	98	642902	20.0	20.2	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	94	57901	20.0	18.5	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	93	366834	20.0	20.2	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	96	186595	20.0	20.3	
117 Naphthalene	128	13.139	13.139	0.000	97	830447	20.0	20.5	
118 1,2,3-Trichlorobenzene	180	13.388	13.388	0.000	96	324565	20.0	20.0	
S 134 Trihalomethanes, Total	1				0		80.0	81.0	
S 158 Total BTEX	1				0		100.0	107.5	
S 133 Xylenes, Total	106				0		40.0	42.4	

QC Flag Legend

Processing Flags

Reagents:

vmrprimw_00426	Amount Added: 16.00	Units: uL	
vmrgas_00377	Amount Added: 16.00	Units: uL	
vmarolistdw_00383	Amount Added: 16.00	Units: uL	
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added: 0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added: 2.49	Units: uL	Run Reagent

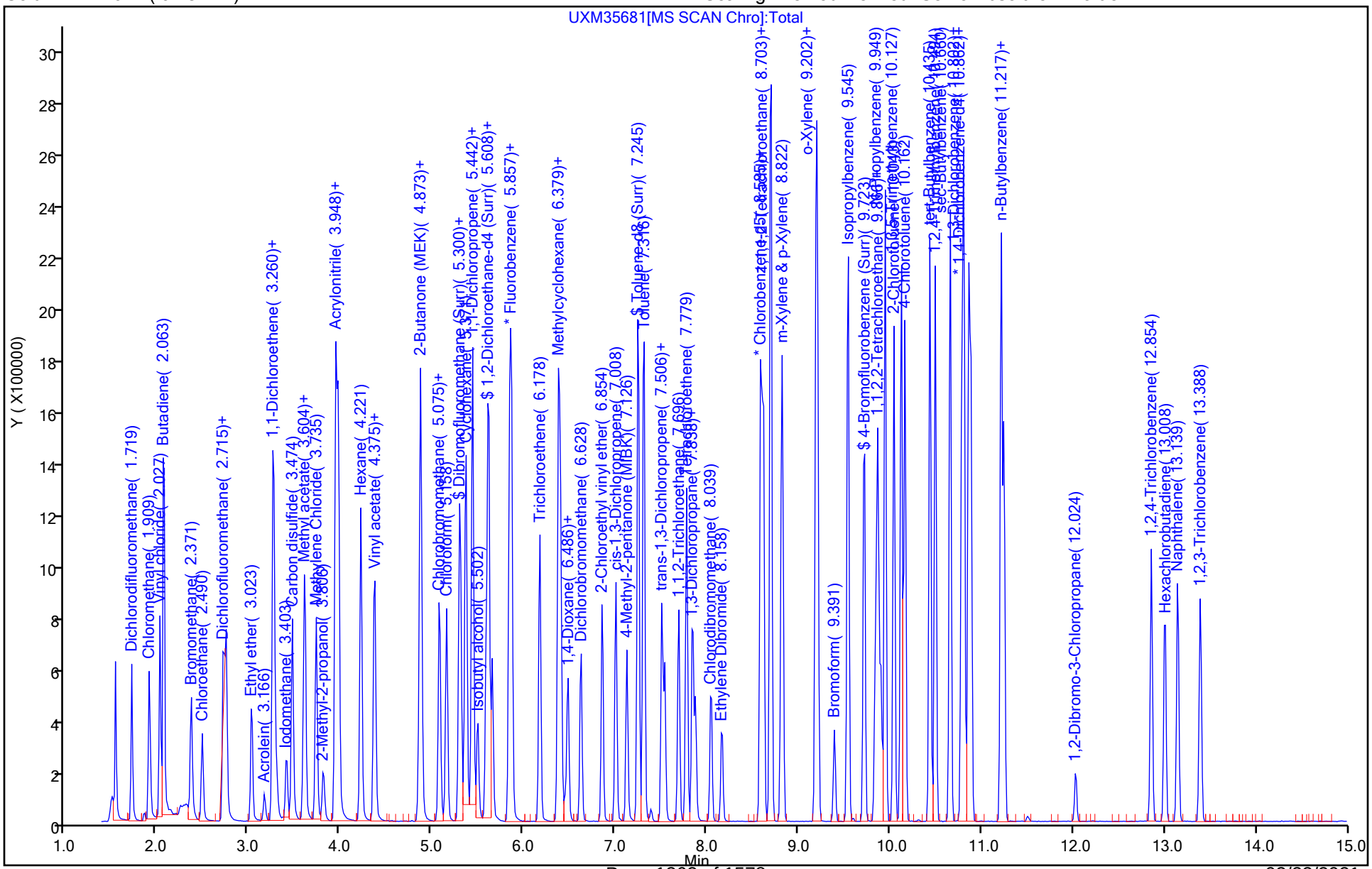
Report Date: 16-Mar-2021 11:10:58 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35681.D

Injection Date:	16-Mar-2021 10:39:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCV 240-476975/4 Calibration Date: 03/16/2021 11:04

Instrument ID: A3UX16 Calib Start Date: 09/08/2020 16:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/08/2020 18:33

Lab File ID: UXM35682.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0241	0.0312		0.258	0.200	29.2*	20.0
Diisopropyl ether	Ave	0.1780	0.1798		0.0202	0.0200	1.0	20.0
2-Chloro-1,3-butadiene	Ave	0.2907	0.3392		0.0233	0.0200	16.7	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5222	0.5570		0.0213	0.0200	6.7	20.0
Ethyl acetate	Ave	0.1396	0.1586		0.0455	0.0400	13.7	20.0
Propionitrile	Ave	0.0271	0.0309		0.228	0.200	13.9	20.0
Methacrylonitrile	Ave	0.1010	0.1170		0.232	0.200	15.8	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.5149	0.5207		0.0202	0.0200	1.1	20.0
n-Butanol	Lin1		0.0039		0.443	0.500	-11.3	20.0
Ethyl acrylate	Ave	0.1885	0.2112		0.0224	0.0200	12.0	20.0
Methyl methacrylate	Ave	0.1240	0.1501		0.0484	0.0400	21.1*	20.0
2-Nitropropane	Ave	0.0396	0.0452		0.0457	0.0400	14.2	20.0
n-Butyl acetate	Ave	0.1978	0.2363		0.0239	0.0200	19.5	20.0
1-Chlorohexane	Ave	0.4164	0.4720		0.0227	0.0200	13.4	20.0
Cyclohexanone	Ave	0.0114	0.0156		0.273	0.200	36.5*	20.0
Pentachloroethane	Ave	0.0994	0.1598		0.0643	0.0400	60.8*	20.0
1,2,3-Trimethylbenzene	Ave	1.959	1.969		0.0201	0.0200	0.5	20.0
Benzyl chloride	Ave	0.2096	0.2187		0.0209	0.0200	4.3	20.0
1,3,5-Trichlorobenzene	Ave	0.8280	0.8162		0.0197	0.0200	-1.4	20.0
2-Methylnaphthalene	Ave	0.5961	0.7510		0.0504	0.0400	26.0*	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35682.D
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 16-Mar-2021 11:04:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-004
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 11:44:47 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1613

First Level Reviewer: bosworthh Date: 16-Mar-2021 11:44:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1270652	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	87	961236	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	517038	20.0	20.0	
25 Acetonitrile	41	3.569	3.569	0.000	100	396343	200.0	258.4	
36 Isopropyl ether	87	4.387	4.387	0.000	93	228409	20.0	20.2	
37 2-Chloro-1,3-butadiene	53	4.434	4.434	0.000	91	430976	20.0	23.3	
38 Tert-butyl ethyl ether	59	4.707	4.707	0.000	97	707771	20.0	21.3	
43 Ethyl acetate	43	4.873	4.873	0.000	99	403143	40.0	45.5	
42 Propionitrile	54	4.921	4.921	0.000	99	392531	200.0	227.8	
44 Methacrylonitrile	41	5.039	5.039	0.000	92	1486104	200.0	231.5	
163 Isooctane	57	5.703	5.703	0.000	98	964553	20.0	26.3	
55 Tert-amyl methyl ether	73	5.703	5.703	0.000	96	661680	20.0	20.2	
57 n-Butanol	56	6.059	6.059	0.000	86	123792	500.0	443.3	
59 Ethyl acrylate	55	6.225	6.225	0.000	99	268313	20.0	22.4	
62 Methyl methacrylate	41	6.427	6.427	0.000	88	381483	40.0	48.4	
66 2-Nitropropane	41	6.818	6.818	0.000	99	114955	40.0	45.7	
77 n-Butyl acetate	43	7.968	7.968	0.000	95	300277	20.0	23.9	
81 1-Chlorohexane	91	8.585	8.585	0.000	97	453741	20.0	22.7	
91 Cyclohexanone	55	9.640	9.640	0.000	91	80629	200.0	273.0	
103 Pentachloroethane	167	10.470	10.470	0.000	93	307209	40.0	64.3	
109 1,2,3-Trimethylbenzene	105	10.909	10.909	0.000	98	1017836	20.0	20.1	
110 Benzyl chloride	126	11.004	11.004	0.000	99	113070	20.0	20.9	
114 1,3,5-Trichlorobenzene	180	12.214	12.214	0.000	98	422010	20.0	19.7	
119 2-Methylnaphthalene	142	14.585	14.585	0.000	94	776601	40.0	50.4	
162 1-Methylnaphthalene	142	14.846	14.846	0.000	0	695357	40.0	50.0	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00383	Amount Added: 16.00	Units: uL
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL

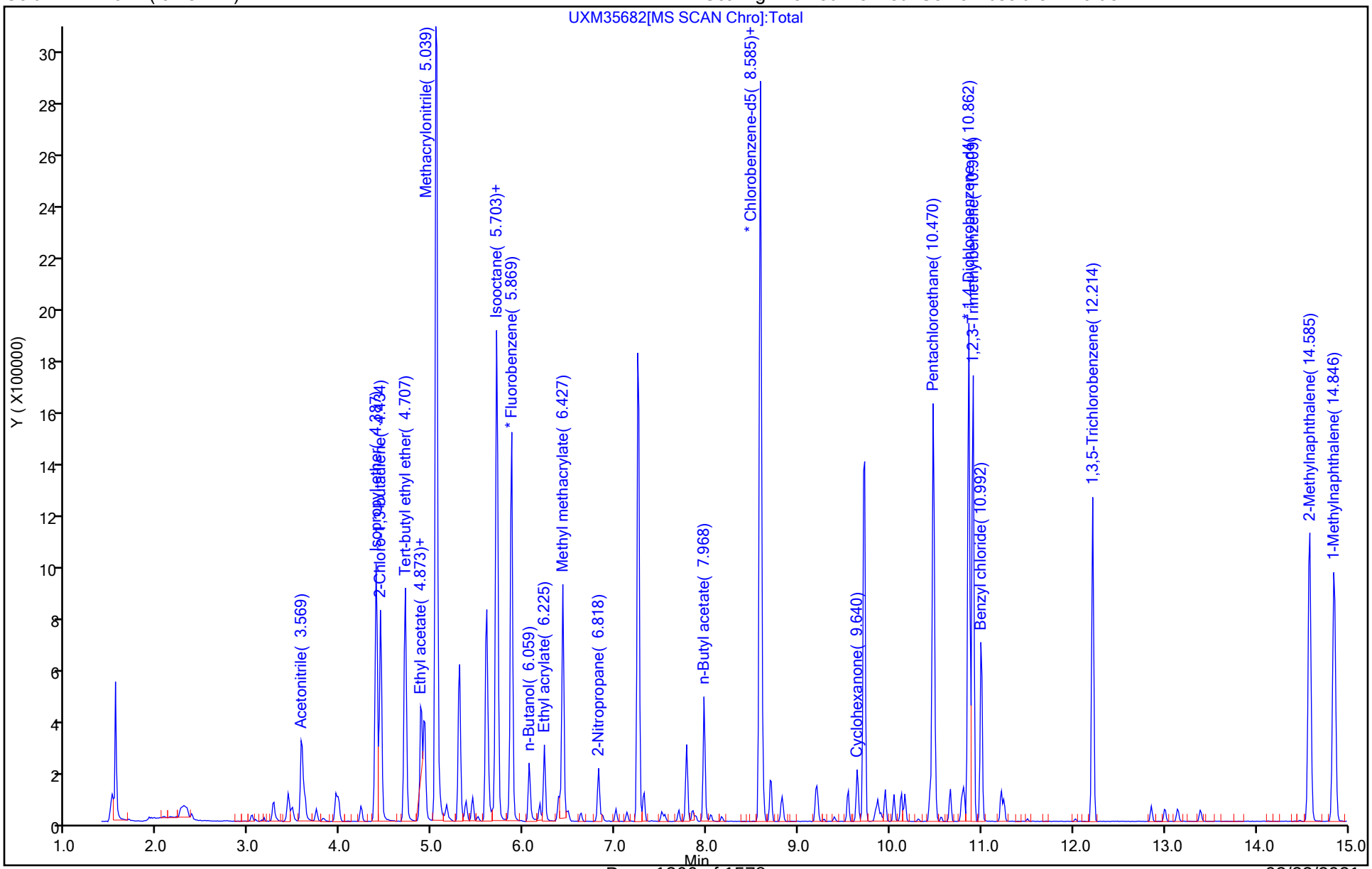
Report Date: 16-Mar-2021 11:44:47 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35682.D

Injection Date:	16-Mar-2021 11:04:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	CCV A9			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-342719/14 Calibration Date: 08/27/2018 19:45

Instrument ID: A3UX19 Calib Start Date: 08/27/2018 17:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2018 19:23

Lab File ID: U1901330.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3850	0.2913	0.1000	0.0151	0.0200	-24.3	30.0
Chloromethane	Ave	0.2883	0.2492	0.1000	0.0173	0.0200	-13.6	30.0
Butadiene	Ave	0.2887	0.2477		0.0172	0.0200	-14.2	30.0
Vinyl chloride	Ave	0.2980	0.2874	0.1000	0.0193	0.0200	-3.5	30.0
Bromomethane	Ave	0.2335	0.2187	0.0500	0.0187	0.0200	-6.3	30.0
Chloroethane	Ave	0.1848	0.1799	0.0500	0.0195	0.0200	-2.7	30.0
Dichlorofluoromethane	Ave	0.4581	0.4761		0.0208	0.0200	3.9	30.0
Trichlorofluoromethane	Ave	0.4984	0.5062	0.1000	0.0203	0.0200	1.6	30.0
Ethyl ether	Ave	0.1800	0.1933		0.0215	0.0200	7.4	30.0
Acrolein	Ave	0.0445	0.0361		0.0812	0.100	-18.8	30.0
1,1-Dichloroethene	Ave	0.3589	0.3889	0.1000	0.0217	0.0200	8.3	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2567	0.2852	0.0500	0.0222	0.0200	11.1	30.0
Acetone	Ave	0.0784	0.0730	0.0100	0.0372	0.0400	-6.9	50.0
Iodomethane	Ave	0.4655	0.4827		0.0207	0.0200	3.7	30.0
Carbon disulfide	Ave	0.7515	0.7522	0.1000	0.0200	0.0200	0.0	30.0
3-Chloro-1-propene	Ave	0.3541	0.3610		0.0204	0.0200	2.0	30.0
Methyl acetate	Ave	0.2328	0.2202	0.1000	0.0378	0.0400	-5.4	50.0
Methylene Chloride	Ave	0.2846	0.2847	0.1000	0.0200	0.0200	0.0	50.0
tert-Butyl alcohol	Ave	0.0271	0.0283		0.209	0.200	4.3	30.0
Acrylonitrile	Ave	0.1006	0.1019		0.203	0.200	1.4	30.0
Methyl tert-butyl ether	Ave	0.6938	0.7063	0.1000	0.0204	0.0200	1.8	30.0
trans-1,2-Dichloroethene	Ave	0.3387	0.3553	0.1000	0.0210	0.0200	4.9	30.0
Hexane	Ave	0.3524	0.3872		0.0220	0.0200	9.9	30.0
1,1-Dichloroethane	Ave	0.4048	0.4171	0.2000	0.0206	0.0200	3.0	30.0
Vinyl acetate	Ave	0.4639	0.5080		0.0219	0.0200	9.5	30.0
2,2-Dichloropropane	Ave	0.2438	0.2691		0.0221	0.0200	10.4	30.0
2-Butanone	Ave	0.0472	0.0464	0.0100	0.0393	0.0400	-1.8	50.0
cis-1,2-Dichloroethene	Ave	0.2891	0.2867	0.1000	0.0198	0.0200	-0.8	30.0
Bromochloromethane	Ave	0.1945	0.1891		0.0194	0.0200	-2.8	30.0
Tetrahydrofuran	Lin1		0.1082		0.0418	0.0400	4.6	30.0
Chloroform	Ave	0.4433	0.4563	0.2000	0.0206	0.0200	2.9	30.0
1,1,1-Trichloroethane	Ave	0.4174	0.4498	0.1000	0.0216	0.0200	7.8	30.0
Cyclohexane	Ave	0.3819	0.4119	0.1000	0.0216	0.0200	7.8	30.0
1,1-Dichloropropene	Ave	0.3519	0.3667		0.0208	0.0200	4.2	30.0
Carbon tetrachloride	Ave	0.4023	0.4240	0.1000	0.0211	0.0200	5.4	30.0
Isobutyl alcohol	Ave	0.0110	0.0112		0.508	0.500	1.6	30.0
1,2-Dichloroethane	Ave	0.3600	0.3604	0.1000	0.0200	0.0200	0.1	30.0
Benzene	Ave	0.9518	0.9713	0.5000	0.0204	0.0200	2.1	30.0
n-Heptane	Lin1		0.2300		0.0213	0.0200	6.3	30.0
Trichloroethene	Ave	0.3160	0.3196	0.1500	0.0202	0.0200	1.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-342719/14 Calibration Date: 08/27/2018 19:45

Instrument ID: A3UX19 Calib Start Date: 08/27/2018 17:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2018 19:23

Lab File ID: U1901330.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4590	0.4761	0.1000	0.0207	0.0200	3.7	30.0
1,2-Dichloropropane	Ave	0.2208	0.2306	0.1000	0.0209	0.0200	4.5	30.0
Dibromomethane	Ave	0.2271	0.2193		0.0193	0.0200	-3.4	30.0
1,4-Dioxane	Ave	0.0024	0.0028		0.474	0.400	18.4	50.0
Bromodichloromethane	Ave	0.3479	0.3494	0.1500	0.0201	0.0200	0.4	30.0
2-Chloroethyl vinyl ether	Ave	0.1770	0.1822		0.0206	0.0200	2.9	30.0
cis-1,3-Dichloropropene	Ave	0.3865	0.4060	0.1500	0.0210	0.0200	5.1	50.0
4-Methyl-2-pentanone	Ave	0.3203	0.3230	0.0500	0.0403	0.0400	0.8	50.0
Toluene	Ave	1.352	1.362	0.4000	0.0201	0.0200	0.7	30.0
trans-1,3-Dichloropropene	Ave	0.4818	0.4613	0.1000	0.0191	0.0200	-4.3	30.0
Ethyl methacrylate	Ave	0.4344	0.4432		0.0204	0.0200	2.0	30.0
1,1,2-Trichloroethane	Ave	0.2842	0.2905	0.1000	0.0204	0.0200	2.2	30.0
Tetrachloroethene	Ave	0.4313	0.4446	0.1500	0.0206	0.0200	3.1	30.0
1,3-Dichloropropane	Ave	0.4802	0.4738		0.0197	0.0200	-1.3	30.0
2-Hexanone	Ave	0.3149	0.3202	0.0500	0.0407	0.0400	1.7	50.0
Dibromochloromethane	Ave	0.3583	0.3631		0.0203	0.0200	1.3	30.0
1,2-Dibromoethane	Ave	0.3346	0.3230		0.0193	0.0200	-3.5	30.0
Chlorobenzene	Ave	0.9253	0.9231	0.3000	0.0200	0.0200	-0.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3336	0.3465		0.0208	0.0200	3.9	30.0
Ethylbenzene	Ave	0.4836	0.4958		0.0205	0.0200	2.5	30.0
m-Xylene & p-Xylene	Ave	0.5890	0.6110		0.0207	0.0200	3.7	30.0
o-Xylene	Ave	0.5597	0.5768		0.0206	0.0200	3.1	30.0
Styrene	Ave	0.9588	0.9701	0.3000	0.0202	0.0200	1.2	30.0
Bromoform	Ave	0.2933	0.2923	0.1000	0.0199	0.0200	-0.3	30.0
Isopropylbenzene	Ave	1.503	1.583	0.1000	0.0211	0.0200	5.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7706	0.7768	0.3000	0.0202	0.0200	0.8	30.0
Bromobenzene	Ave	0.7690	0.7545		0.0196	0.0200	-1.9	30.0
1,2,3-Trichloropropane	Ave	0.2921	0.3010		0.0206	0.0200	3.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2737	0.2785		0.0203	0.0200	1.7	30.0
n-Propylbenzene	Ave	0.7729	0.7998		0.0207	0.0200	3.5	30.0
2-Chlorotoluene	Ave	0.6541	0.6592		0.0202	0.0200	0.8	30.0
1,3,5-Trimethylbenzene	Ave	2.225	2.303		0.0207	0.0200	3.5	30.0
4-Chlorotoluene	Ave	0.7072	0.7078		0.0200	0.0200	0.0	30.0
tert-Butylbenzene	Ave	2.113	2.203		0.0209	0.0200	4.3	30.0
1,2,4-Trimethylbenzene	Ave	2.256	2.278		0.0202	0.0200	1.0	30.0
sec-Butylbenzene	Ave	2.845	3.009		0.0212	0.0200	5.8	30.0
1,3-Dichlorobenzene	Ave	1.412	1.370	0.6000	0.0194	0.0200	-3.0	30.0
p-Isopropyltoluene	Ave	2.492	2.628		0.0211	0.0200	5.5	30.0
1,4-Dichlorobenzene	Ave	1.459	1.395	0.5000	0.0191	0.0200	-4.4	30.0
n-Butylbenzene	Ave	2.050	2.114		0.0206	0.0200	3.1	30.0
1,2-Dichlorobenzene	Ave	1.282	1.257	0.4000	0.0196	0.0200	-2.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-342719/14 Calibration Date: 08/27/2018 19:45

Instrument ID: A3UX19 Calib Start Date: 08/27/2018 17:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2018 19:23

Lab File ID: U1901330.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2450	0.2411	0.0500	0.0197	0.0200	-1.6	50.0
1,2,4-Trichlorobenzene	Ave	0.8550	0.8004	0.2000	0.0187	0.0200	-6.4	50.0
Hexachlorobutadiene	Ave	0.4392	0.4373		0.0199	0.0200	-0.4	50.0
Naphthalene	Ave	2.363	2.262		0.0191	0.0200	-4.3	50.0
1,2,3-Trichlorobenzene	Ave	0.7677	0.7284		0.0190	0.0200	-5.1	30.0
Dibromofluoromethane (Surr)	Ave	0.2692	0.2769		0.0206	0.0200	2.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3092	0.3266		0.0211	0.0200	5.6	30.0
Toluene-d8 (Surr)	Ave	1.199	1.238		0.0206	0.0200	3.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4513	0.4759		0.0211	0.0200	5.5	30.0

TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901330.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 27-Aug-2018 19:45:31 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: 001904 Instrument ID: A3UX19
Sublist:

Method: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 27-Aug-2018 21:12:05 Calib Date: 27-Aug-2018 19:23:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK010

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	96	955207	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	83	765531	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	87	424750	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	59	264542	20.0	20.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.345	0.012	100	311954	20.0	21.1	
$ 6 Toluene-d8 (Surr)	98	7.100	7.101	0.000	86	947747	20.0	20.6	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	89	364329	20.0	21.1	
9 Dichlorodifluoromethane	85	1.610	1.610	0.000	88	278240	20.0	15.1	
10 Chloromethane	50	1.823	1.812	0.011	78	238040	20.0	17.3	
12 Butadiene	54	1.906	1.906	0.000	87	236605	20.0	17.2	
11 Vinyl chloride	62	1.930	1.918	0.012	82	274549	20.0	19.3	
13 Bromomethane	94	2.227	2.227	0.000	92	208903	20.0	18.7	
14 Chloroethane	64	2.298	2.298	0.000	95	171871	20.0	19.5	
15 Dichlorofluoromethane	67	2.511	2.499	0.012	83	454821	20.0	20.8	
16 Trichlorofluoromethane	101	2.582	2.582	0.000	88	483563	20.0	20.3	
17 Ethyl ether	59	2.808	2.808	0.000	90	184629	20.0	21.5	
18 Acrolein	56	2.926	2.926	0.000	94	172494	100.0	81.2	
21 1,1-Dichloroethene	61	3.045	3.045	0.000	89	371471	20.0	21.7	
20 1,1,2-Trichloro-1,2,2-trif	101	3.057	3.057	0.000	81	272453	20.0	22.2	
22 Acetone	43	3.068	3.069	-0.001	72	139402	40.0	37.2	
23 Iodomethane	142	3.199	3.199	0.000	99	461057	20.0	20.7	
24 Carbon disulfide	76	3.258	3.258	0.000	99	718482	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
26 3-Chloro-1-propene	41	3.365	3.365	0.000	74	344875	20.0	20.4	
27 Methyl acetate	43	3.377	3.377	0.000	96	420737	40.0	37.8	
28 Methylene Chloride	49	3.484	3.495	-0.011	55	271908	20.0	20.0	
29 2-Methyl-2-propanol	59	3.578	3.567	0.011	87	269854	200.0	208.6	
30 Acrylonitrile	53	3.697	3.685	0.012	98	973795	200.0	202.8	
32 trans-1,2-Dichloroethene	61	3.733	3.721	0.012	68	339431	20.0	21.0	
31 Methyl tert-butyl ether	73	3.733	3.733	0.000	89	674668	20.0	20.4	
33 Hexane	57	3.982	3.982	0.000	92	369879	20.0	22.0	
34 1,1-Dichloroethane	63	4.112	4.112	0.000	85	398379	20.0	20.6	
35 Vinyl acetate	43	4.148	4.148	0.000	97	485201	20.0	21.9	
40 cis-1,2-Dichloroethene	96	4.634	4.622	0.012	68	273831	20.0	19.8	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	92	88581	40.0	39.3	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	65	257071	20.0	22.1	
45 Chlorobromomethane	49	4.835	4.836	-0.001	70	180641	20.0	19.4	
46 Tetrahydrofuran	42	4.883	4.883	0.000	83	206721	40.0	41.8	
47 Chloroform	83	4.907	4.907	0.000	71	435869	20.0	20.6	
48 1,1,1-Trichloroethane	97	5.084	5.085	-0.001	90	429620	20.0	21.6	
49 Cyclohexane	84	5.144	5.144	0.000	86	393450	20.0	21.6	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	90	350261	20.0	20.8	
51 Carbon tetrachloride	117	5.239	5.239	0.000	70	405050	20.0	21.1	
52 Isobutyl alcohol	41	5.298	5.298	0.000	83	266481	500.0	508.1	
54 1,2-Dichloroethane	62	5.416	5.417	-0.001	50	344294	20.0	20.0	
53 Benzene	78	5.416	5.417	-0.001	94	927804	20.0	20.4	
56 n-Heptane	57	5.642	5.642	0.000	82	219666	20.0	21.3	
58 Trichloroethene	130	5.986	5.986	0.000	92	305241	20.0	20.2	
60 Methylcyclohexane	83	6.175	6.176	-0.001	87	454812	20.0	20.7	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	80	220275	20.0	20.9	
63 Dibromomethane	174	6.294	6.294	0.000	89	209471	20.0	19.3	
64 1,4-Dioxane	88	6.306	6.306	0.000	35	54068	400.0	473.8	
65 Dichlorobromomethane	83	6.436	6.436	0.000	93	333796	20.0	20.1	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	93	174029	20.0	20.6	
68 cis-1,3-Dichloropropene	75	6.840	6.840	0.000	89	387819	20.0	21.0	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	83	617114	40.0	40.3	
70 Toluene	91	7.172	7.172	0.000	94	1042380	20.0	20.1	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	85	353136	20.0	19.1	
72 Ethyl methacrylate	69	7.432	7.433	-0.001	89	339271	20.0	20.4	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	86	222400	20.0	20.4	
75 Tetrachloroethene	166	7.693	7.693	0.000	92	340390	20.0	20.6	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	90	362713	20.0	19.7	
77 2-Hexanone	43	7.765	7.765	-0.001	79	490171	40.0	40.7	
79 Chlorodibromomethane	129	7.931	7.919	0.012	88	278002	20.0	20.3	
80 Ethylene Dibromide	107	8.049	8.049	0.000	99	247260	20.0	19.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
82 Chlorobenzene	112	8.523	8.524	-0.001	92	706649	20.0	20.0	
83 1,1,1,2-Tetrachloroethane	131	8.606	8.607	-0.001	87	265224	20.0	20.8	
84 Ethylbenzene	106	8.630	8.630	0.000	98	379588	20.0	20.5	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	100	467728	20.0	20.7	
86 o-Xylene	106	9.152	9.152	0.000	88	441586	20.0	20.6	
87 Styrene	104	9.164	9.164	0.000	93	742653	20.0	20.2	
88 Bromoform	173	9.354	9.354	0.000	98	223782	20.0	19.9	
89 Isopropylbenzene	105	9.520	9.520	0.000	96	1211475	20.0	21.1	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	88	329964	20.0	20.2	
92 Bromobenzene	156	9.840	9.840	0.000	89	320488	20.0	19.6	
93 1,2,3-Trichloropropane	110	9.863	9.864	-0.001	69	127830	20.0	20.6	
94 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	61	118291	20.0	20.3	
95 N-Propylbenzene	120	9.946	9.947	-0.001	96	339730	20.0	20.7	
96 2-Chlorotoluene	126	10.041	10.041	0.000	97	279994	20.0	20.2	
97 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	95	978383	20.0	20.7	
98 4-Chlorotoluene	126	10.148	10.148	0.000	98	300639	20.0	20.0	
99 tert-Butylbenzene	119	10.468	10.468	0.000	78	935547	20.0	20.9	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	71	967584	20.0	20.2	
102 sec-Butylbenzene	105	10.694	10.694	0.000	93	1277861	20.0	21.2	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	84	581709	20.0	19.4	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	91	1116328	20.0	21.1	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	92	592339	20.0	19.1	
108 n-Butylbenzene	91	11.287	11.287	0.000	97	897771	20.0	20.6	
109 1,2-Dichlorobenzene	146	11.310	11.298	0.012	98	533790	20.0	19.6	
110 1,2-Dibromo-3-Chloropropan	157	12.128	12.129	-0.001	89	102428	20.0	19.7	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	92	339973	20.0	18.7	
113 Hexachlorobutadiene	225	13.208	13.208	0.000	88	185743	20.0	19.9	
114 Naphthalene	128	13.279	13.279	0.000	96	960764	20.0	19.1	
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	93	309386	20.0	19.0	
S 164 Total BTEX	1				0		100.0	102.4	
S 127 Trihalomethanes, Total	1				0		80.0	80.9	
S 126 Xylenes, Total	106				0		40.0	41.4	

Reagents:

vmfasgw_00271	Amount Added:	16.00	Units: uL	
vmfasaw_00246	Amount Added:	16.00	Units: uL	
vmfaspw_00264	Amount Added:	16.00	Units: uL	
vm50ss_stk_00077	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00123	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00001	Amount Added:	2.00	Units: uL	Run Reagent

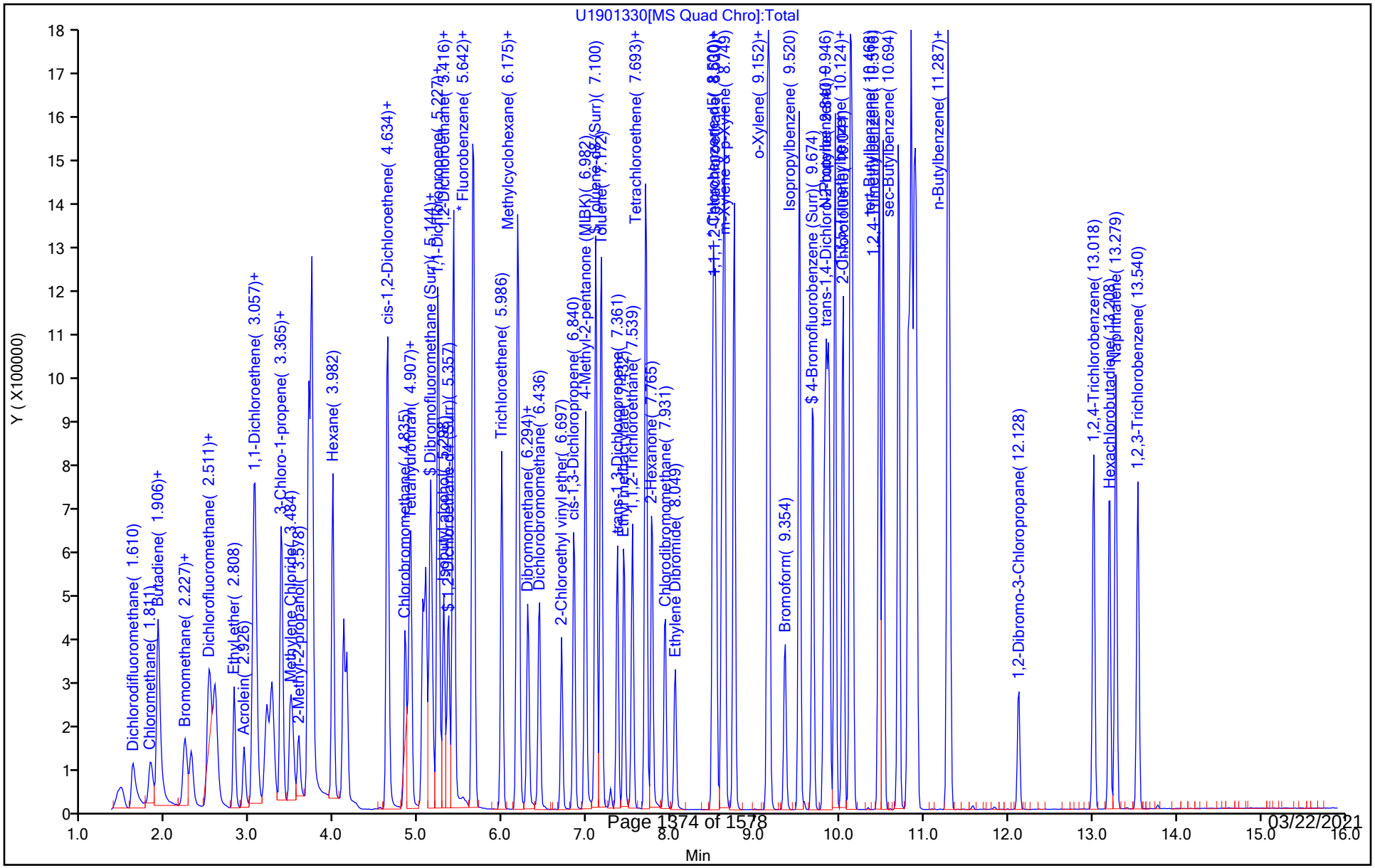
Report Date: 27-Aug-2018 21:12:28 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901330.d

Injection Date:	27-Aug-2018 19:45:31	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	ICV			Worklist Smp#:	14
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCV 240-476858/3 Calibration Date: 03/15/2021 18:42

Instrument ID: A3UX19 Calib Start Date: 07/25/2018 13:24

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/25/2018 15:15

Lab File ID: U1920959.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Lin1		0.0370		0.186	0.200	-7.2	20.0
Diisopropyl ether	Ave	0.2313	0.2130		0.0184	0.0200	-7.9	20.0
2-Chloro-1,3-butadiene	Ave	0.3979	0.4558		0.0229	0.0200	14.6	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7258	0.6885		0.0190	0.0200	-5.1	20.0
Propionitrile	Ave	0.0408	0.0484		0.237	0.200	18.7	20.0
Ethyl acetate	Ave	0.3007	0.3404		0.0453	0.0400	13.2	20.0
Methacrylonitrile	Ave	0.1828	0.2215		0.242	0.200	21.2*	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.7700	0.6595		0.0171	0.0200	-14.4	20.0
n-Butanol	Ave	0.0094	0.0127		0.678	0.500	35.5*	20.0
Ethyl acrylate	Ave	0.3703	0.3785		0.0204	0.0200	2.2	20.0
Methyl methacrylate	Ave	0.2459	0.2592		0.0422	0.0400	5.4	20.0
2-Nitropropane	Ave	0.0726	0.0927		0.0511	0.0400	27.8*	20.0
n-Butyl acetate	Ave	0.5364	0.5665		0.0211	0.0200	5.6	20.0
1-Chlorohexane	Ave	0.4610	0.4275		0.0185	0.0200	-7.3	20.0
Cyclohexanone	Ave	0.0137	0.0147		0.215	0.200	7.7	20.0
Pentachloroethane	Ave	0.3462	0.2751		0.0318	0.0400	-20.5*	20.0
1,2,3-Trimethylbenzene	Ave	2.276	2.329		0.0205	0.0200	2.3	20.0
Benzyl chloride	Ave	1.286	1.408		0.0219	0.0200	9.4	20.0
1,3,5-Trichlorobenzene	Ave	1.021	0.8244		0.0161	0.0200	-19.3	20.0
2-Methylnaphthalene	Ave	1.433	1.097		0.0306	0.0400	-23.4*	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920959.d
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 15-Mar-2021 18:42:34 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-003
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub13

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Mar-2021 19:00:49 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: laveyt Date: 15-Mar-2021 19:00:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.666	5.666	0.000	98	921508	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	87	701057	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	96	353765	20.0	20.0	
26 Acetonitrile	41	3.329	3.329	0.000	99	341170	200.0	185.5	
37 Isopropyl ether	87	4.183	4.183	0.000	93	196242	20.0	18.4	
38 2-Chloro-1,3-butadiene	53	4.207	4.207	0.000	92	420008	20.0	22.9	
39 Tert-butyl ethyl ether	59	4.503	4.503	0.000	96	634472	20.0	19.0	
43 Propionitrile	54	4.681	4.681	0.000	70	445810	200.0	237.4	
44 Ethyl acetate	43	4.693	4.693	0.000	98	627340	40.0	45.3	
45 Methacrylonitrile	41	4.824	4.824	0.000	93	2041540	200.0	242.4	
56 Tert-amyl methyl ether	73	5.511	5.511	0.000	96	607697	20.0	17.1	
58 n-Butanol	56	5.891	5.891	0.000	90	292163	500.0	677.5	
60 Ethyl acrylate	55	6.069	6.069	0.000	99	348835	20.0	20.4	
63 Methyl methacrylate	41	6.282	6.282	0.000	91	477780	40.0	42.2	
67 2-Nitropropane	41	6.638	6.638	0.000	99	170904	40.0	51.1	
78 n-Butyl acetate	43	7.895	7.895	0.000	98	397150	20.0	21.1	
82 1-Chlorohexane	91	8.500	8.500	0.000	95	299692	20.0	18.5	
91 Cyclohexanone	55	9.615	9.615	0.000	93	103212	200.0	215.4	
104 Pentachloroethane	167	10.492	10.492	0.000	92	194647	40.0	31.8	
110 1,2,3-Trimethylbenzene	105	10.966	10.966	0.000	99	823875	20.0	20.5	
111 Benzyl chloride	91	11.049	11.049	0.000	99	498018	20.0	21.9	
115 1,3,5-Trichlorobenzene	180	12.366	12.366	0.000	97	291657	20.0	16.1	
120 2-Methylnaphthalene	142	14.631	14.631	0.000	93	776162	40.0	30.6	

QC Flag Legend
Processing Flags

Reagents:

vm50is_stk_A_00008	Amount Added:	2.00	Units: uL
vmra9w_00383	Amount Added:	16.00	Units: uL

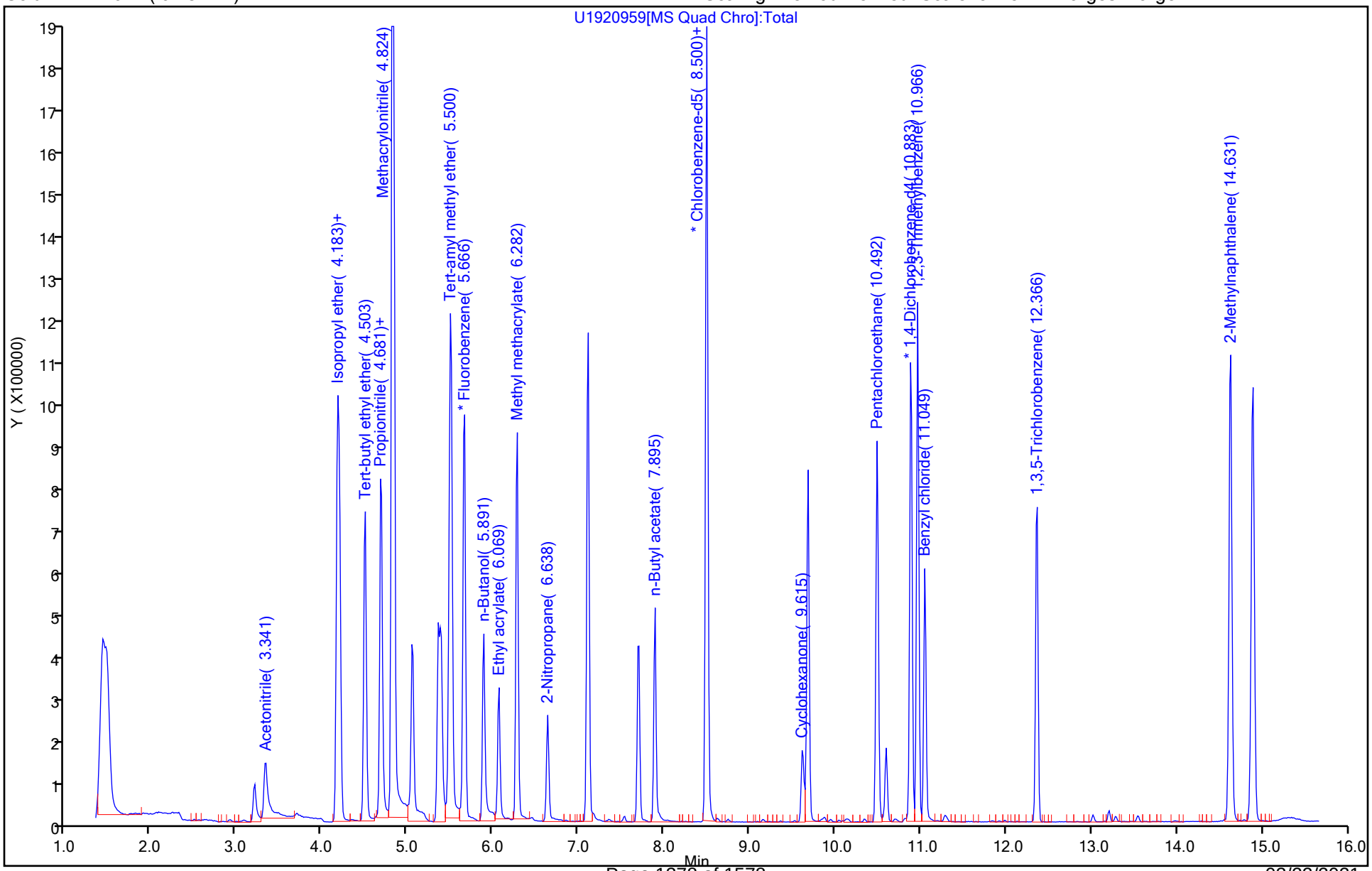
Report Date: 15-Mar-2021 19:00:49 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920959.d

Injection Date:	15-Mar-2021 18:42:34	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	CCV A9			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476858/4 Calibration Date: 03/15/2021 19:04

Instrument ID: A3UX19 Calib Start Date: 08/27/2018 17:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2018 19:23

Lab File ID: U1920960.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3850	0.3488	0.1000	0.0181	0.0200	-9.4	20.0
Chloromethane	Ave	0.2883	0.3568	0.1000	0.0247	0.0200	23.7*	20.0
Butadiene	Ave	0.2887	0.3269		0.0226	0.0200	13.2	20.0
Vinyl chloride	Ave	0.2980	0.3620	0.1000	0.0243	0.0200	21.5*	20.0
Bromomethane	Ave	0.2335	0.2407	0.0500	0.0206	0.0200	3.1	20.0
Chloroethane	Ave	0.1848	0.2254	0.0500	0.0244	0.0200	21.9*	20.0
Dichlorofluoromethane	Ave	0.4581	0.5169		0.0226	0.0200	12.8	20.0
Trichlorofluoromethane	Ave	0.4984	0.4633	0.1000	0.0186	0.0200	-7.0	20.0
Ethyl ether	Ave	0.1800	0.2383		0.0265	0.0200	32.4*	20.0
Acrolein	Ave	0.0445	0.0184		0.0414	0.100	-58.6*	20.0
1,1-Dichloroethene	Ave	0.3589	0.4355	0.1000	0.0243	0.0200	21.3*	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2567	0.2899	0.0500	0.0226	0.0200	12.9	20.0
Acetone	Ave	0.0784	0.0937	0.0100	0.0478	0.0400	19.5	50.0
Iodomethane	Ave	0.4655	0.4315		0.0185	0.0200	-7.3	20.0
Carbon disulfide	Ave	0.7515	0.8477	0.1000	0.0226	0.0200	12.8	20.0
3-Chloro-1-propene	Ave	0.3541	0.4301		0.0243	0.0200	21.5*	20.0
Methyl acetate	Ave	0.2328	0.2906	0.1000	0.0499	0.0400	24.8	50.0
Methylene Chloride	Ave	0.2846	0.3612	0.1000	0.0254	0.0200	26.9	50.0
tert-Butyl alcohol	Ave	0.0271	0.0316		0.233	0.200	16.7	20.0
Acrylonitrile	Ave	0.1006	0.1352		0.269	0.200	34.5*	20.0
trans-1,2-Dichloroethene	Ave	0.3387	0.4200	0.1000	0.0248	0.0200	24.0*	20.0
Methyl tert-butyl ether	Ave	0.6938	0.7338	0.1000	0.0212	0.0200	5.8	20.0
Hexane	Ave	0.3524	0.4120		0.0234	0.0200	16.9	20.0
1,1-Dichloroethane	Ave	0.4048	0.5125	0.2000	0.0253	0.0200	26.6*	20.0
Vinyl acetate	Ave	0.4639	0.5502		0.0237	0.0200	18.6	20.0
2,2-Dichloropropane	Ave	0.2438	0.2614		0.0214	0.0200	7.2	20.0
2-Butanone	Ave	0.0472	0.0478	0.0100	0.0405	0.0400	1.1	50.0
cis-1,2-Dichloroethene	Ave	0.2891	0.3105	0.1000	0.0215	0.0200	7.4	20.0
Bromochloromethane	Ave	0.1945	0.2404		0.0247	0.0200	23.6*	20.0
Tetrahydrofuran	Lin1		0.1283		0.0501	0.0400	25.2*	20.0
Chloroform	Ave	0.4433	0.5160	0.2000	0.0233	0.0200	16.4	20.0
1,1,1-Trichloroethane	Ave	0.4174	0.4186	0.1000	0.0201	0.0200	0.3	20.0
Cyclohexane	Ave	0.3819	0.4462	0.1000	0.0234	0.0200	16.8	20.0
1,1-Dichloropropene	Ave	0.3519	0.4205		0.0239	0.0200	19.5	20.0
Carbon tetrachloride	Ave	0.4023	0.3896	0.1000	0.0194	0.0200	-3.2	20.0
Isobutyl alcohol	Ave	0.0110	0.0137		0.623	0.500	24.6*	20.0
Benzene	Ave	0.9518	1.120	0.5000	0.0235	0.0200	17.6	20.0
1,2-Dichloroethane	Ave	0.3600	0.4045	0.1000	0.0225	0.0200	12.3	20.0
n-Heptane	Lin1		0.2023		0.0183	0.0200	-8.5	20.0
Trichloroethene	Ave	0.3160	0.3141	0.1500	0.0199	0.0200	-0.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476858/4 Calibration Date: 03/15/2021 19:04

Instrument ID: A3UX19 Calib Start Date: 08/27/2018 17:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2018 19:23

Lab File ID: U1920960.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.4590	0.4811	0.1000	0.0210	0.0200	4.8	20.0
1,2-Dichloropropane	Ave	0.2208	0.2710	0.1000	0.0246	0.0200	22.8*	20.0
1,4-Dioxane	Ave	0.0024	0.0037		0.616	0.400	54.0*	50.0
Dibromomethane	Ave	0.2271	0.1772		0.0156	0.0200	-22.0*	20.0
Bromodichloromethane	Ave	0.3479	0.3512	0.1500	0.0202	0.0200	0.9	20.0
2-Chloroethyl vinyl ether	Ave	0.1770	0.1988		0.0449	0.0400	12.3	20.0
cis-1,3-Dichloropropene	Ave	0.3865	0.4103	0.1500	0.0212	0.0200	6.2	50.0
4-Methyl-2-pentanone	Ave	0.3203	0.3791	0.0500	0.0473	0.0400	18.4	50.0
Toluene	Ave	1.352	1.485	0.4000	0.0220	0.0200	9.9	20.0
trans-1,3-Dichloropropene	Ave	0.4818	0.4823	0.1000	0.0200	0.0200	0.1	20.0
Ethyl methacrylate	Ave	0.4344	0.4487		0.0207	0.0200	3.3	20.0
1,1,2-Trichloroethane	Ave	0.2842	0.3017	0.1000	0.0212	0.0200	6.2	20.0
1,3-Dichloropropane	Ave	0.4802	0.5550		0.0231	0.0200	15.6	20.0
Tetrachloroethene	Ave	0.4313	0.3693	0.1500	0.0171	0.0200	-14.4	20.0
2-Hexanone	Ave	0.3149	0.3636	0.0500	0.0462	0.0400	15.5	50.0
Dibromochloromethane	Ave	0.3583	0.3335		0.0186	0.0200	-6.9	20.0
1,2-Dibromoethane	Ave	0.3346	0.3196		0.0191	0.0200	-4.5	20.0
Chlorobenzene	Ave	0.9253	0.9167	0.3000	0.0198	0.0200	-0.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3336	0.3246		0.0195	0.0200	-2.7	20.0
Ethylbenzene	Ave	0.4836	0.4999		0.0207	0.0200	3.4	20.0
m-Xylene & p-Xylene	Ave	0.5890	0.6084		0.0207	0.0200	3.3	20.0
o-Xylene	Ave	0.5597	0.5856		0.0209	0.0200	4.6	20.0
Styrene	Ave	0.9588	0.8776	0.3000	0.0183	0.0200	-8.5	20.0
Bromoform	Ave	0.2933	0.2358	0.1000	0.0161	0.0200	-19.6	20.0
Isopropylbenzene	Ave	1.503	1.548	0.1000	0.0206	0.0200	3.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7706	0.9358	0.3000	0.0243	0.0200	21.4*	20.0
Bromobenzene	Ave	0.7690	0.7018		0.0183	0.0200	-8.7	20.0
1,2,3-Trichloropropane	Ave	0.2921	0.3134		0.0215	0.0200	7.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2737	0.2884		0.0211	0.0200	5.4	20.0
n-Propylbenzene	Ave	0.7729	0.8132		0.0210	0.0200	5.2	20.0
2-Chlorotoluene	Ave	0.6541	0.6914		0.0211	0.0200	5.7	20.0
1,3,5-Trimethylbenzene	Ave	2.225	2.390		0.0215	0.0200	7.4	20.0
4-Chlorotoluene	Ave	0.7072	0.7174		0.0203	0.0200	1.4	20.0
tert-Butylbenzene	Ave	2.113	2.070		0.0196	0.0200	-2.0	20.0
1,2,4-Trimethylbenzene	Ave	2.256	2.405		0.0213	0.0200	6.6	20.0
sec-Butylbenzene	Ave	2.845	2.930		0.0206	0.0200	3.0	20.0
1,3-Dichlorobenzene	Ave	1.412	1.293	0.6000	0.0183	0.0200	-8.4	20.0
p-Isopropyltoluene	Ave	2.492	2.491		0.0200	0.0200	-0.0	20.0
1,4-Dichlorobenzene	Ave	1.459	1.317	0.5000	0.0181	0.0200	-9.7	20.0
n-Butylbenzene	Ave	2.050	2.155		0.0210	0.0200	5.1	20.0
1,2-Dichlorobenzene	Ave	1.282	1.247	0.4000	0.0194	0.0200	-2.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-476858/4 Calibration Date: 03/15/2021 19:04

Instrument ID: A3UX19 Calib Start Date: 08/27/2018 17:09

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2018 19:23

Lab File ID: U1920960.d Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.2450	0.2217	0.0500	0.0181	0.0200	-9.5	50.0
1,2,4-Trichlorobenzene	Ave	0.8550	0.6981	0.2000	0.0163	0.0200	-18.4	50.0
Hexachlorobutadiene	Ave	0.4392	0.2622		0.0119	0.0200	-40.3	50.0
Naphthalene	Ave	2.363	2.389		0.0202	0.0200	1.1	50.0
1,2,3-Trichlorobenzene	Ave	0.7677	0.6735		0.0175	0.0200	-12.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2692	0.2866		0.0213	0.0200	6.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3092	0.3470		0.0224	0.0200	12.2	20.0
Toluene-d8 (Surr)	Ave	1.199	1.300		0.0217	0.0200	8.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4513	0.4765		0.0211	0.0200	5.6	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920960.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Mar-2021 19:04:41 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-004
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Mar-2021 19:39:40 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: laveyt Date: 15-Mar-2021 19:39:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.666	5.666	0.000	99	912579	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	86	715484	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	94	374191	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.049	5.049	0.000	93	261507	20.0	21.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	96	316677	20.0	22.4	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	929786	20.0	21.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.686	9.686	0.000	87	340942	20.0	21.1	
9 Dichlorodifluoromethane	85	1.610	1.610	0.000	100	318293	20.0	18.1	
10 Chloromethane	50	1.811	1.811	0.000	100	325596	20.0	24.7	
11 Butadiene	54	1.906	1.906	0.000	94	298320	20.0	22.6	
12 Vinyl chloride	62	1.918	1.918	0.000	98	330308	20.0	24.3	
13 Bromomethane	94	2.238	2.238	0.000	93	219675	20.0	20.6	
15 Chloroethane	64	2.310	2.310	0.000	99	205677	20.0	24.4	
16 Dichlorofluoromethane	67	2.511	2.511	0.000	98	471750	20.0	22.6	
17 Trichlorofluoromethane	101	2.594	2.594	0.000	99	422801	20.0	18.6	
18 Ethyl ether	59	2.819	2.819	0.000	92	217455	20.0	26.5	
19 Acrolein	56	2.938	2.938	0.000	98	83981	100.0	41.4	
20 1,1-Dichloroethene	61	3.033	3.033	0.000	98	397417	20.0	24.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.069	3.069	0.000	96	264551	20.0	22.6	
22 Acetone	43	3.080	3.080	0.000	98	171061	40.0	47.8	
24 Iodomethane	142	3.187	3.187	0.000	99	393803	20.0	18.5	
25 Carbon disulfide	76	3.246	3.246	0.000	99	773624	20.0	22.6	
27 3-Chloro-1-propene	41	3.365	3.365	0.000	90	392504	20.0	24.3	
28 Methyl acetate	43	3.389	3.389	0.000	98	530390	40.0	49.9	
29 Methylene Chloride	49	3.484	3.484	0.000	93	329654	20.0	25.4	
30 2-Methyl-2-propanol	59	3.578	3.578	0.000	96	288361	200.0	233.4	
31 Acrylonitrile	53	3.697	3.697	0.000	97	1234063	200.0	268.9	
32 trans-1,2-Dichloroethene	61	3.733	3.733	0.000	96	383290	20.0	24.8	
33 Methyl tert-butyl ether	73	3.744	3.744	0.000	96	669675	20.0	21.2	
34 Hexane	57	3.993	3.993	0.000	93	375992	20.0	23.4	
35 1,1-Dichloroethane	63	4.112	4.112	0.000	97	467679	20.0	25.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Vinyl acetate	43	4.148	4.148	0.000	98	502115	20.0	23.7	
42 2,2-Dichloropropane	77	4.634	4.634	0.000	79	238550	20.0	21.4	
41 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	85	283349	20.0	21.5	
40 2-Butanone (MEK)	72	4.634	4.634	0.000	98	87187	40.0	40.5	
46 Chlorobromomethane	49	4.847	4.847	0.000	97	219425	20.0	24.7	
47 Tetrahydrofuran	42	4.895	4.895	0.000	88	234180	40.0	50.1	
48 Chloroform	83	4.907	4.907	0.000	95	470916	20.0	23.3	
49 1,1,1-Trichloroethane	97	5.084	5.084	0.000	98	381974	20.0	20.1	
50 Cyclohexane	84	5.144	5.144	0.000	94	407172	20.0	23.4	
52 Carbon tetrachloride	117	5.239	5.239	0.000	98	355519	20.0	19.4	
51 1,1-Dichloropropene	75	5.239	5.239	0.000	95	383766	20.0	23.9	
53 Isobutyl alcohol	41	5.298	5.298	0.000	93	312278	500.0	623.2	
54 Benzene	78	5.417	5.417	0.000	97	1021753	20.0	23.5	
55 1,2-Dichloroethane	62	5.428	5.428	0.000	98	369123	20.0	22.5	
57 n-Heptane	57	5.642	5.642	0.000	89	184651	20.0	18.3	
59 Trichloroethene	130	5.998	5.998	0.000	98	286644	20.0	19.9	
61 Methylcyclohexane	83	6.175	6.175	0.000	93	439067	20.0	21.0	
62 1,2-Dichloropropane	63	6.199	6.199	0.000	94	247295	20.0	24.6	
65 1,4-Dioxane	88	6.306	6.306	0.000	43	67151	400.0	615.9	
64 Dibromomethane	174	6.306	6.306	0.000	96	161700	20.0	15.6	
66 Dichlorobromomethane	83	6.436	6.436	0.000	99	320453	20.0	20.2	
68 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	92	362878	40.0	44.9	
69 cis-1,3-Dichloropropene	75	6.851	6.851	0.000	94	374411	20.0	21.2	
70 4-Methyl-2-pentanone (MIBK)	43	6.982	6.982	0.000	96	691970	40.0	47.3	
71 Toluene	91	7.172	7.172	0.000	97	1062715	20.0	22.0	
72 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	95	345085	20.0	20.0	
73 Ethyl methacrylate	69	7.444	7.444	0.000	89	321039	20.0	20.7	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	93	215871	20.0	21.2	
75 Tetrachloroethene	166	7.705	7.705	0.000	94	264229	20.0	17.1	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	91	397074	20.0	23.1	
77 2-Hexanone	43	7.776	7.776	0.000	96	520362	40.0	46.2	
79 Chlorodibromomethane	129	7.931	7.931	0.000	90	238631	20.0	18.6	
81 Ethylene Dibromide	107	8.049	8.049	0.000	99	228658	20.0	19.1	
83 Chlorobenzene	112	8.535	8.535	0.000	94	655880	20.0	19.8	
84 1,1,1,2-Tetrachloroethane	131	8.606	8.606	0.000	94	232231	20.0	19.5	
85 Ethylbenzene	106	8.630	8.630	0.000	99	357682	20.0	20.7	
86 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	435322	20.0	20.7	
87 o-Xylene	106	9.152	9.152	0.000	97	418992	20.0	20.9	
88 Styrene	104	9.164	9.164	0.000	92	627940	20.0	18.3	
89 Bromoform	173	9.354	9.354	0.000	96	168741	20.0	16.1	
90 Isopropylbenzene	105	9.531	9.531	0.000	96	1107440	20.0	20.6	
93 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	95	350185	20.0	24.3	
95 Bromobenzene	156	9.852	9.852	0.000	96	262607	20.0	18.3	
97 trans-1,4-Dichloro-2-butene	53	9.875	9.875	0.000	79	107917	20.0	21.1	
96 1,2,3-Trichloropropane	110	9.875	9.875	0.000	84	117262	20.0	21.5	
98 N-Propylbenzene	120	9.947	9.947	0.000	99	304286	20.0	21.0	
100 2-Chlorotoluene	126	10.041	10.041	0.000	96	258725	20.0	21.1	
101 1,3,5-Trimethylbenzene	105	10.136	10.136	0.000	95	894428	20.0	21.5	
102 4-Chlorotoluene	126	10.160	10.160	0.000	99	268428	20.0	20.3	
103 tert-Butylbenzene	119	10.480	10.480	0.000	92	774646	20.0	19.6	
105 1,2,4-Trimethylbenzene	105	10.528	10.528	0.000	96	899938	20.0	21.3	
106 sec-Butylbenzene	105	10.705	10.705	0.000	95	1096495	20.0	20.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,3-Dichlorobenzene	146	10.824	10.824	0.000	97	483915	20.0	18.3	
108 4-Isopropyltoluene	119	10.860	10.860	0.000	97	932229	20.0	20.0	
109 1,4-Dichlorobenzene	146	10.919	10.919	0.000	93	492959	20.0	18.1	
112 n-Butylbenzene	91	11.287	11.287	0.000	98	806208	20.0	21.0	
113 1,2-Dichlorobenzene	146	11.310	11.310	0.000	96	466439	20.0	19.4	
114 1,2-Dibromo-3-Chloropropane	157	12.129	12.129	0.000	83	82962	20.0	18.1	
116 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	94	261214	20.0	16.3	
117 Hexachlorobutadiene	225	13.208	13.208	0.000	98	98096	20.0	11.9	
118 Naphthalene	128	13.279	13.279	0.000	98	893889	20.0	20.2	
119 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	95	252014	20.0	17.5	
S 125 Trihalomethanes, Total	1				0		80.0	78.2	
S 124 Total BTEX	1				0		100.0	107.8	
S 128 Xylenes, Total	106				0		40.0	41.6	

QC Flag Legend

Processing Flags

Reagents:

vmarolistdw_00383	Amount Added: 16.00	Units: uL		
vmrprimw_00426	Amount Added: 16.00	Units: uL		
vmrgas_00377	Amount Added: 16.00	Units: uL		
vm50ss_stk_00087	Amount Added: 2.00	Units: uL	Run Reagent	
vmDist_H2o_00189	Amount Added: 0.00	Units:	Run Reagent	
vm40ml_vials_00015	Amount Added: 0.00	Units:	Run Reagent	
vm50is_stk_A_00008	Amount Added: 2.00	Units: uL	Run Reagent	

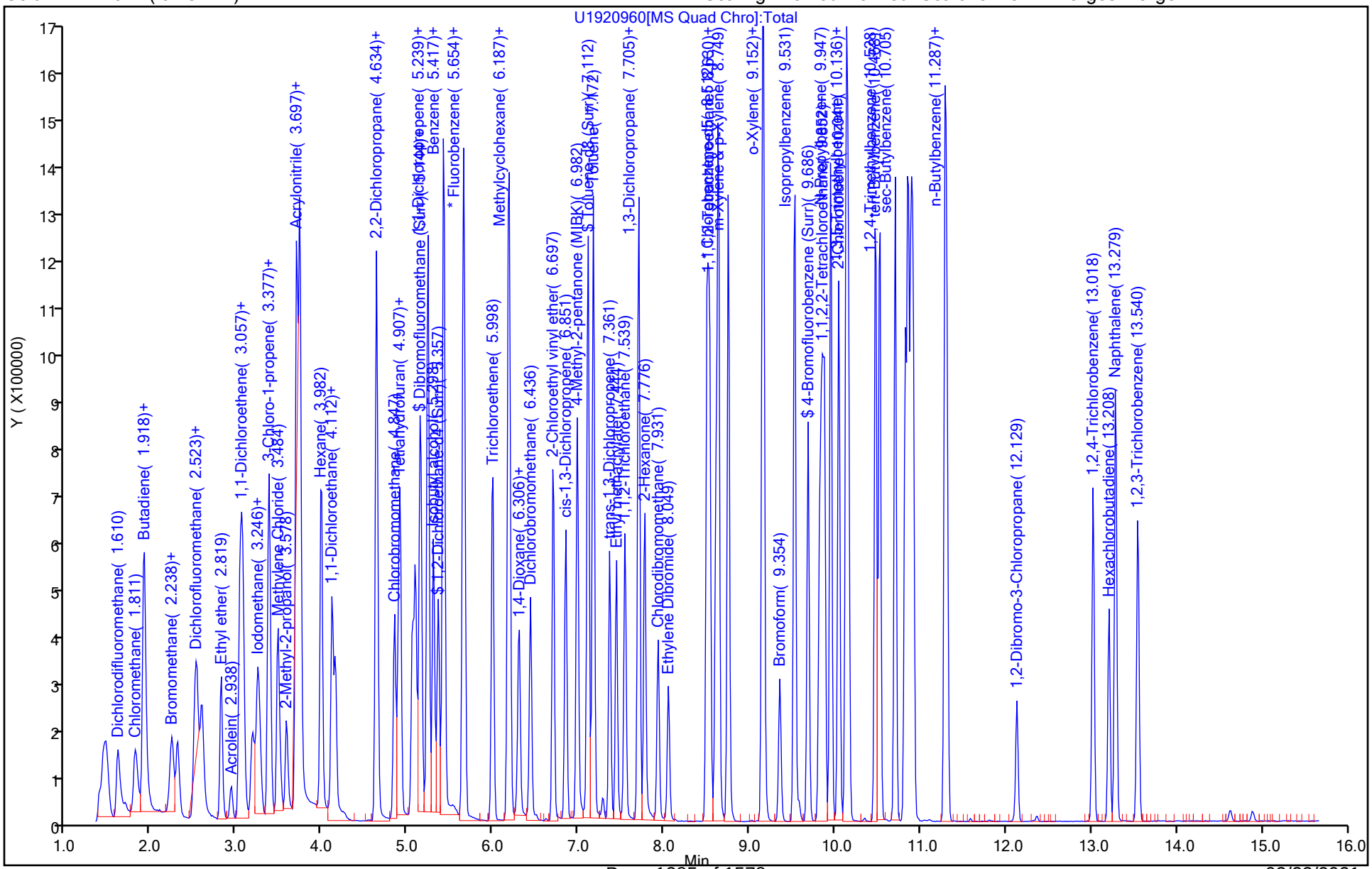
Report Date: 15-Mar-2021 19:39:42 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920960.d

Injection Date:	15-Mar-2021 19:04:41	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-468309/15 Calibration Date: 01/07/2021 15:22

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX992606.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3385	0.2963	0.1000	0.0175	0.0200	-12.5	30.0
Chloromethane	Ave	0.3292	0.2933	0.1000	0.0178	0.0200	-10.9	30.0
Butadiene	Ave	0.3090	0.2811		0.0182	0.0200	-9.0	30.0
Vinyl chloride	Ave	0.3234	0.3297	0.1000	0.0204	0.0200	1.9	30.0
Bromomethane	Ave	0.2723	0.2646	0.0500	0.0194	0.0200	-2.8	30.0
Chloroethane	Ave	0.2417	0.2306	0.0500	0.0191	0.0200	-4.6	30.0
Dichlorofluoromethane	Ave	0.5554	0.5322		0.0192	0.0200	-4.2	30.0
Trichlorofluoromethane	Ave	0.5273	0.5110	0.1000	0.0194	0.0200	-3.1	30.0
Ethyl ether	Ave	0.2497	0.2383		0.0191	0.0200	-4.6	30.0
Acrolein	Ave	0.0131	0.0155		0.118	0.100	18.0	30.0
1,1-Dichloroethene	Ave	0.4003	0.3924	0.1000	0.0196	0.0200	-2.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2392	0.2445	0.0500	0.0204	0.0200	2.2	30.0
Acetone	Lin1		0.0313	0.0100	0.0419	0.0400	4.8	50.0
Iodomethane	Ave	0.4065	0.4241		0.0209	0.0200	4.3	30.0
Carbon disulfide	Ave	0.7054	0.7205	0.1000	0.0204	0.0200	2.1	30.0
3-Chloro-1-propene	Ave	0.3974	0.3703		0.0186	0.0200	-6.8	30.0
Methyl acetate	Ave	0.2909	0.2685	0.1000	0.0369	0.0400	-7.7	50.0
Methylene Chloride	Ave	0.3619	0.3215	0.1000	0.0178	0.0200	-11.2	50.0
2-Methyl-2-propanol	Ave	0.0337	0.0400		0.238	0.200	18.8	30.0
Acrylonitrile	Ave	0.1258	0.1294		0.206	0.200	2.9	30.0
Methyl tert-butyl ether	Ave	0.9168	0.8931	0.1000	0.0195	0.0200	-2.6	30.0
trans-1,2-Dichloroethene	Ave	0.3806	0.3754	0.1000	0.0197	0.0200	-1.4	30.0
Hexane	Ave	0.2473	0.2658		0.0215	0.0200	7.5	30.0
1,1-Dichloroethane	Ave	0.4822	0.4549	0.2000	0.0189	0.0200	-5.7	30.0
Vinyl acetate	Ave	0.4915	0.4988		0.0203	0.0200	1.5	30.0
2-Butanone (MEK)	Ave	0.0463	0.0488	0.0100	0.0421	0.0400	5.3	50.0
cis-1,2-Dichloroethene	Ave	0.3362	0.3208	0.1000	0.0191	0.0200	-4.6	30.0
2,2-Dichloropropane	Ave	0.3321	0.3135		0.0189	0.0200	-5.6	30.0
Chlorobromomethane	Ave	0.2401	0.2292		0.0191	0.0200	-4.5	30.0
Chloroform	Ave	0.5203	0.4901	0.2000	0.0188	0.0200	-5.8	30.0
Tetrahydrofuran	Ave	0.1123	0.1159		0.0413	0.0400	3.3	30.0
1,1,1-Trichloroethane	Ave	0.4461	0.4382	0.1000	0.0196	0.0200	-1.8	30.0
Cyclohexane	Ave	0.3730	0.3855	0.1000	0.0207	0.0200	3.3	30.0
1,1-Dichloropropene	Ave	0.3876	0.3757		0.0194	0.0200	-3.1	30.0
Carbon tetrachloride	Ave	0.3709	0.3718	0.1000	0.0200	0.0200	0.2	30.0
Isobutyl alcohol	Ave	0.0115	0.0133		0.581	0.500	16.2	30.0
1,2-Dichloroethane	Ave	0.4325	0.4106	0.1000	0.0190	0.0200	-5.1	30.0
Benzene	Ave	1.126	1.086	0.5000	0.0193	0.0200	-3.5	30.0
n-Heptane	Lin1		0.1479		0.0210	0.0200	4.8	30.0
Trichloroethene	Ave	0.3170	0.3130	0.1500	0.0197	0.0200	-1.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-468309/15 Calibration Date: 01/07/2021 15:22

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX992606.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.2428	0.2454	0.1000	0.0202	0.0200	1.1	30.0
Methylcyclohexane	Ave	0.3409	0.3519	0.1000	0.0206	0.0200	3.2	30.0
1,4-Dioxane	Ave	0.0032	0.0035		0.430	0.400	7.6	50.0
Dibromomethane	Ave	0.2008	0.1999		0.0199	0.0200	-0.5	30.0
Dichlorobromomethane	Ave	0.3679	0.3608	0.1500	0.0196	0.0200	-1.9	30.0
2-Chloroethyl vinyl ether	Ave	0.1694	0.1867		0.0220	0.0200	10.2	30.0
cis-1,3-Dichloropropene	Ave	0.4255	0.4407	0.1500	0.0207	0.0200	3.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3282	0.3339	0.0500	0.0407	0.0400	1.7	50.0
Toluene	Ave	1.533	1.474	0.4000	0.0192	0.0200	-3.8	30.0
trans-1,3-Dichloropropene	Ave	0.5200	0.5070	0.1000	0.0195	0.0200	-2.5	30.0
Ethyl methacrylate	Ave	0.4317	0.4624		0.0214	0.0200	7.1	30.0
1,1,2-Trichloroethane	Ave	0.3221	0.3163	0.1000	0.0196	0.0200	-1.8	30.0
1,3-Dichloropropane	Ave	0.5766	0.5584		0.0194	0.0200	-3.2	30.0
Tetrachloroethene	Ave	0.3627	0.3677	0.1500	0.0203	0.0200	1.4	30.0
2-Hexanone	Ave	0.2854	0.2899	0.0500	0.0406	0.0400	1.6	50.0
Chlorodibromomethane	Ave	0.3396	0.3383		0.0199	0.0200	-0.4	30.0
Ethylene Dibromide	Ave	0.3431	0.3439		0.0200	0.0200	0.2	30.0
Chlorobenzene	Ave	0.9931	0.9620	0.3000	0.0194	0.0200	-3.1	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3613	0.3473		0.0192	0.0200	-3.9	30.0
Ethylbenzene	Ave	0.5106	0.5004		0.0196	0.0200	-2.0	30.0
m-Xylene & p-Xylene	Ave	0.6363	0.6285		0.0198	0.0200	-1.2	30.0
o-Xylene	Ave	0.6538	0.6294		0.0193	0.0200	-3.7	30.0
Styrene	Ave	0.9231	1.017	0.3000	0.0220	0.0200	10.1	30.0
Bromoform	Ave	0.2137	0.2260	0.1000	0.0211	0.0200	5.7	30.0
Isopropylbenzene	Ave	1.593	1.586	0.1000	0.0199	0.0200	-0.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8818	0.8679	0.3000	0.0197	0.0200	-1.6	30.0
1,2,3-Trichloropropane	Ave	0.3377	0.3431		0.0203	0.0200	1.6	30.0
Bromobenzene	Ave	0.7275	0.7736		0.0213	0.0200	6.3	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2682	0.2864		0.0214	0.0200	6.8	30.0
N-Propylbenzene	Ave	0.7478	0.7764		0.0208	0.0200	3.8	30.0
2-Chlorotoluene	Ave	0.7083	0.7134		0.0201	0.0200	0.7	30.0
1,3,5-Trimethylbenzene	Ave	2.297	2.354		0.0205	0.0200	2.5	30.0
4-Chlorotoluene	Ave	0.7122	0.7328		0.0206	0.0200	2.9	30.0
tert-Butylbenzene	Ave	2.052	2.111		0.0206	0.0200	2.9	30.0
1,2,4-Trimethylbenzene	Ave	2.391	2.424		0.0203	0.0200	1.4	30.0
sec-Butylbenzene	Ave	0.5511	0.5970		0.0217	0.0200	8.3	30.0
1,3-Dichlorobenzene	Ave	1.422	1.416	0.6000	0.0199	0.0200	-0.4	30.0
4-Isopropyltoluene	Ave	2.295	2.393		0.0209	0.0200	4.3	30.0
1,4-Dichlorobenzene	Ave	1.453	1.463	0.5000	0.0201	0.0200	0.7	30.0
n-Butylbenzene	Ave	1.854	1.908		0.0206	0.0200	2.9	30.0
1,2-Dichlorobenzene	Ave	1.468	1.411	0.4000	0.0192	0.0200	-3.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-468309/15 Calibration Date: 01/07/2021 15:22

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX992606.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin1		0.2453	0.0500	0.0189	0.0200	-5.3	50.0
1,2,4-Trichlorobenzene	Ave	0.8593	0.8649	0.2000	0.0201	0.0200	0.7	50.0
Hexachlorobutadiene	Ave	0.2670	0.3001		0.0225	0.0200	12.4	50.0
Naphthalene	Ave	3.114	3.047		0.0196	0.0200	-2.2	50.0
1,2,3-Trichlorobenzene	Ave	0.8170	0.7994		0.0196	0.0200	-2.1	30.0
Dibromofluoromethane (Surr)	Ave	0.2856	0.2800		0.0196	0.0200	-1.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3565	0.3551		0.0199	0.0200	-0.4	30.0
Toluene-d8 (Surr)	Ave	1.330	1.336		0.0201	0.0200	0.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4647	0.4766		0.0205	0.0200	2.6	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992606.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 07-Jan-2021 15:22:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-015
Operator ID: 001765 Instrument ID: A3UX9
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:11:43 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 11:57:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.865	5.865	0.000	98	1211297	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.563	8.563	0.000	87	961544	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.811	0.000	94	522141	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.274	5.275	-0.001	93	339207	20.0	19.6	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.569	5.570	-0.001	100	430124	20.0	19.9	
$ 6 Toluene-d8 (Surr)	98	7.250	7.251	-0.001	93	1284738	20.0	20.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.676	-0.001	89	458269	20.0	20.5	
9 Dichlorodifluoromethane	85	1.771	1.772	-0.001	99	358892	20.0	17.5	
10 Chloromethane	50	1.996	1.985	0.011	99	355271	20.0	17.8	
11 Vinyl chloride	62	2.114	2.115	-0.001	74	399344	20.0	20.4	
12 Butadiene	54	2.114	2.115	-0.001	92	340495	20.0	18.2	
13 Bromomethane	94	2.457	2.446	0.011	92	320558	20.0	19.4	
15 Chloroethane	64	2.540	2.541	-0.001	99	279299	20.0	19.1	
16 Dichlorofluoromethane	67	2.753	2.742	0.011	98	644704	20.0	19.2	
17 Trichlorofluoromethane	101	2.824	2.825	-0.001	99	619004	20.0	19.4	
18 Ethyl ether	59	3.061	3.062	-0.001	88	288650	20.0	19.1	
21 Acrolein	56	3.179	3.180	-0.001	99	93607	100.0	118.0	
24 1,1-Dichloroethene	61	3.298	3.298	0.000	99	475258	20.0	19.6	
22 112TCTFE	101	3.321	3.322	-0.001	96	296127	20.0	20.4	
23 Acetone	58	3.333	3.334	-0.001	99	75774	40.0	41.9	
25 Iodomethane	142	3.451	3.440	0.011	99	513708	20.0	20.9	
26 Carbon disulfide	76	3.522	3.523	-0.001	100	872781	20.0	20.4	
28 3-Chloro-1-propene	41	3.629	3.630	-0.001	87	448542	20.0	18.6	
29 Methyl acetate	43	3.641	3.642	-0.001	96	650442	40.0	36.9	
30 Methylene Chloride	49	3.735	3.736	-0.001	89	389382	20.0	17.8	
31 2-Methyl-2-propanol	59	3.830	3.831	-0.001	99	484962	200.0	237.7	
32 Acrylonitrile	53	3.948	3.949	-0.001	98	1567056	200.0	205.8	
34 trans-1,2-Dichloroethene	61	3.996	3.997	-0.001	61	454682	20.0	19.7	
33 Methyl tert-butyl ether	73	3.996	3.997	-0.001	95	1081766	20.0	19.5	
35 Hexane	57	4.244	4.245	-0.001	92	321912	20.0	21.5	
36 1,1-Dichloroethane	63	4.363	4.363	0.000	97	550968	20.0	18.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.398	4.399	-0.001	97	604245	20.0	20.3	
41 2-Butanone (MEK)	72	4.871	4.872	-0.001	86	118152	40.0	42.1	
43 cis-1,2-Dichloroethene	96	4.871	4.872	-0.001	83	388564	20.0	19.1	
42 2,2-Dichloropropane	77	4.883	4.884	-0.001	87	379727	20.0	18.9	
47 Chlorobromomethane	49	5.072	5.073	-0.001	91	277616	20.0	19.1	
48 Tetrahydrofuran	42	5.132	5.121	0.011	85	280846	40.0	41.3	
49 Chloroform	83	5.132	5.133	-0.001	95	593602	20.0	18.8	
50 1,1,1-Trichloroethane	97	5.321	5.322	-0.001	98	530815	20.0	19.6	
51 Cyclohexane	84	5.380	5.381	-0.001	87	466915	20.0	20.7	
52 1,1-Dichloropropene	75	5.451	5.452	-0.001	95	455122	20.0	19.4	
53 Carbon tetrachloride	117	5.463	5.464	-0.001	98	450317	20.0	20.0	
54 Isobutyl alcohol	41	5.498	5.499	-0.001	91	403417	500.0	581.0	
55 Benzene	78	5.640	5.641	-0.001	96	1315553	20.0	19.3	
56 1,2-Dichloroethane	62	5.640	5.641	-0.001	61	497326	20.0	19.0	
58 n-Heptane	71	5.853	5.854	-0.001	86	179161	20.0	21.0	
60 Trichloroethene	130	6.185	6.186	-0.001	96	379079	20.0	19.7	
62 Methylcyclohexane	83	6.374	6.363	0.011	88	426244	20.0	20.6	
63 1,2-Dichloropropane	63	6.374	6.375	-0.001	90	297290	20.0	20.2	
65 1,4-Dioxane	88	6.481	6.481	0.000	41	84017	400.0	430.2	
66 Dibromomethane	174	6.481	6.481	0.000	95	242091	20.0	19.9	
67 Dichlorobromomethane	83	6.599	6.600	-0.001	99	437070	20.0	19.6	
69 2-Chloroethyl vinyl ether	63	6.847	6.848	-0.001	95	226119	20.0	22.0	
71 cis-1,3-Dichloropropene	75	6.989	6.990	-0.001	94	533858	20.0	20.7	
72 4-Methyl-2-pentanone (MIBK)	43	7.120	7.120	0.000	95	808933	40.0	40.7	
73 Toluene	91	7.309	7.310	-0.001	98	1417269	20.0	19.2	
74 trans-1,3-Dichloropropene	75	7.475	7.475	0.000	94	487458	20.0	19.5	
75 Ethyl methacrylate	69	7.546	7.546	0.000	87	444611	20.0	21.4	
76 1,1,2-Trichloroethane	97	7.652	7.653	-0.001	93	304160	20.0	19.6	
77 1,3-Dichloropropane	76	7.806	7.807	-0.001	90	536962	20.0	19.4	
78 Tetrachloroethene	166	7.818	7.819	-0.001	89	353521	20.0	20.3	
80 2-Hexanone	43	7.865	7.866	-0.001	95	557415	40.0	40.6	
82 Chlorodibromomethane	129	8.019	8.020	-0.001	90	325283	20.0	19.9	
83 Ethylene Dibromide	107	8.137	8.138	-0.001	99	330719	20.0	20.0	
85 Chlorobenzene	112	8.599	8.600	-0.001	98	924961	20.0	19.4	
86 1,1,1,2-Tetrachloroethane	131	8.658	8.659	-0.001	95	333931	20.0	19.2	
87 Ethylbenzene	106	8.693	8.694	-0.001	98	481171	20.0	19.6	
88 m-Xylene & p-Xylene	106	8.800	8.801	-0.001	100	604375	20.0	19.8	
89 o-Xylene	106	9.178	9.179	-0.001	97	605218	20.0	19.3	
90 Styrene	104	9.190	9.179	0.011	92	977436	20.0	22.0	
91 Bromoform	173	9.368	9.369	-0.001	95	217304	20.0	21.1	
92 Isopropylbenzene	105	9.522	9.523	-0.001	96	1524705	20.0	19.9	
94 1,1,2,2-Tetrachloroethane	83	9.794	9.795	-0.001	97	453177	20.0	19.7	
95 Bromobenzene	156	9.841	9.842	-0.001	95	403944	20.0	21.3	
96 trans-1,4-Dichloro-2-butene	53	9.841	9.842	-0.001	72	149564	20.0	21.4	
97 1,2,3-Trichloropropane	110	9.841	9.842	-0.001	84	179141	20.0	20.3	
98 N-Propylbenzene	120	9.924	9.925	-0.001	99	405384	20.0	20.8	
100 2-Chlorotoluene	126	10.019	10.019	0.000	96	372496	20.0	20.1	
101 1,3,5-Trimethylbenzene	105	10.090	10.090	0.000	95	1228913	20.0	20.5	
102 4-Chlorotoluene	126	10.125	10.126	-0.001	97	382611	20.0	20.6	
104 tert-Butylbenzene	119	10.421	10.422	-0.001	91	1102264	20.0	20.6	
106 1,2,4-Trimethylbenzene	105	10.456	10.457	-0.001	98	1265440	20.0	20.3	
107 sec-Butylbenzene	134	10.634	10.635	-0.001	94	311737	20.0	21.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.752	10.753	-0.001	97	739334	20.0	19.9	
109 4-Isopropyltoluene	119	10.776	10.765	0.011	97	1249726	20.0	20.9	
110 1,4-Dichlorobenzene	146	10.835	10.836	-0.001	94	763736	20.0	20.1	
113 n-Butylbenzene	91	11.178	11.179	-0.001	97	996289	20.0	20.6	
114 1,2-Dichlorobenzene	146	11.214	11.215	-0.001	97	736569	20.0	19.2	
115 1,2-Dibromo-3-Chloropropane	157	11.971	11.972	-0.001	85	128077	20.0	18.9	
117 1,2,4-Trichlorobenzene	180	12.823	12.824	-0.001	94	451598	20.0	20.1	
118 Hexachlorobutadiene	225	13.000	13.001	-0.001	97	156691	20.0	22.5	
119 Naphthalene	128	13.083	13.084	-0.001	97	1591125	20.0	19.6	
120 1,2,3-Trichlorobenzene	180	13.355	13.356	-0.001	94	417413	20.0	19.6	
S 158 Total BTEX	1				0		100.0	97.1	
S 130 Trihalomethanes, Total	83				0		80.0	79.5	
S 131 Xylenes, Total	106				0		40.0	39.0	

Reagents:

vmfasgw_00390	Amount Added:	16.00	Units: uL
vmfasaw_00358	Amount Added:	16.00	Units: uL
vmfaspw_00381	Amount Added:	16.00	Units: uL
vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vm50ss_00431	Amount Added:	16.00	Units: uL

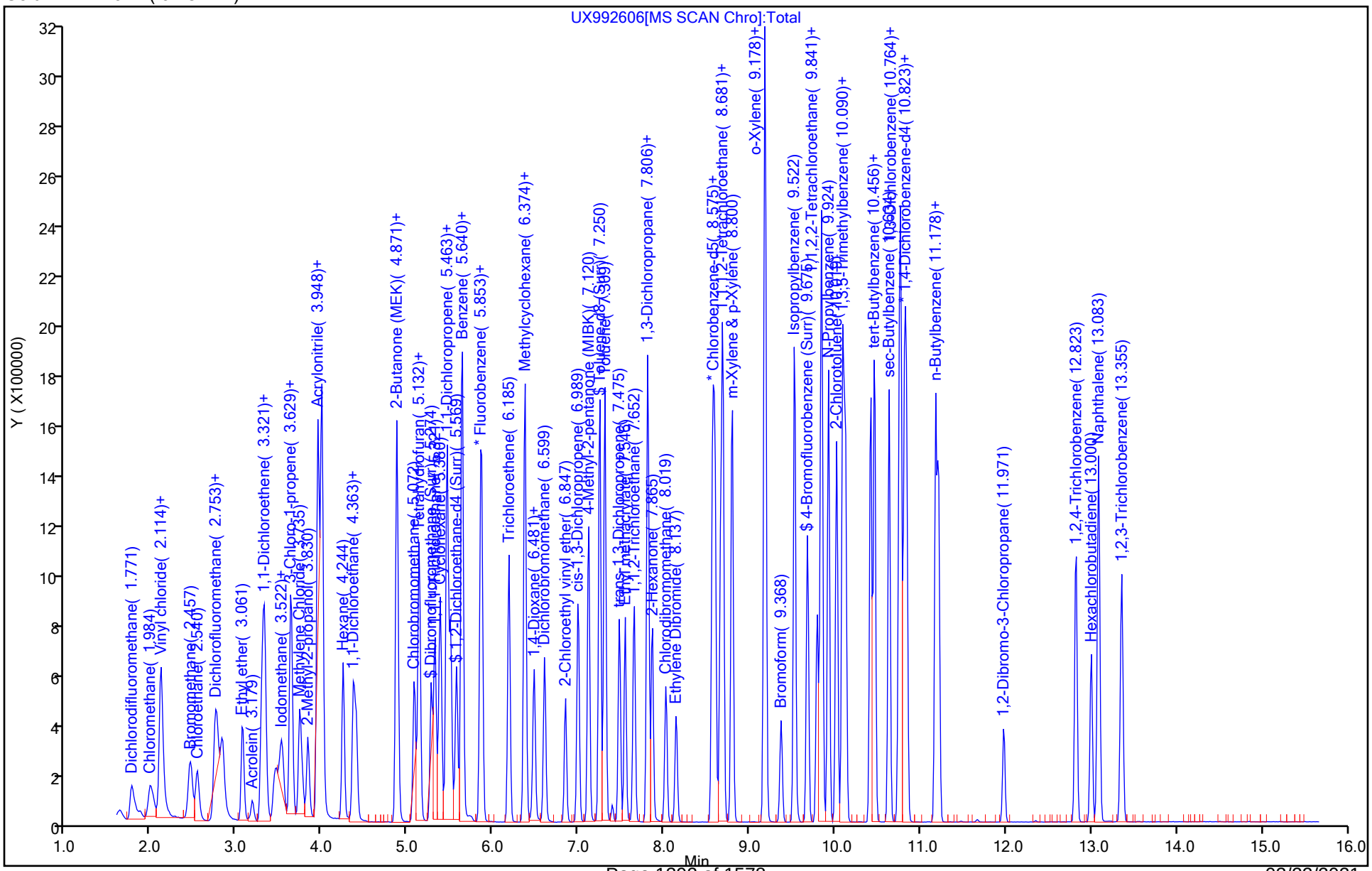
Report Date: 08-Jan-2021 14:12:02 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992606.D

Injection Date:	07-Jan-2021 15:22:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	ICV			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-468309/24 Calibration Date: 01/07/2021 18:43

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX992615.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2856	0.2873		0.0201	0.0200	0.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3565	0.3551		0.0199	0.0200	-0.4	30.0
Toluene-d8 (Surr)	Ave	1.330	1.337		0.0201	0.0200	0.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4647	0.4679		0.0201	0.0200	0.7	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992615.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 07-Jan-2021 18:43:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-024
Operator ID: 001765 Instrument ID: A3UX9
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:12:19 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:14:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.865	5.865	0.000	99	1065142	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.563	8.563	0.000	86	756350	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.811	0.000	95	441406	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.273	5.275	-0.002	93	305990	20.0	20.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.569	5.570	-0.001	100	378228	20.0	19.9	
$ 6 Toluene-d8 (Surr)	98	7.250	7.251	-0.001	93	1011430	20.0	20.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.676	-0.001	88	353876	20.0	20.1	
27 Acetonitrile	41	3.593	3.593	0.000	99	336302	200.0	238.7	
38 Isopropyl ether	87	4.421	4.422	-0.001	91	297894	20.0	21.3	
39 2-Chloro-1,3-butadiene	53	4.457	4.457	0.000	93	498292	20.0	21.8	
40 Tert-butyl ethyl ether	59	4.741	4.741	0.000	96	1008246	20.0	22.2	
44 Ethyl acetate	43	4.918	4.919	-0.001	99	645504	40.0	38.0	
45 Propionitrile	54	4.918	4.919	-0.001	67	475585	200.0	195.2	
46 Methacrylonitrile	41	5.049	5.049	0.000	92	2282624	200.0	202.3	
163 Isooctane	57	5.699	5.700	-0.001	95	568224	20.0	22.3	
57 Tert-amyl methyl ether	73	5.723	5.723	0.000	97	1111744	20.0	22.0	
59 n-Butanol	56	6.066	6.066	0.000	89	282811	500.0	533.0	
61 Ethyl acrylate	55	6.244	6.244	0.000	99	364931	20.0	20.6	
64 Methyl methacrylate	41	6.445	6.445	0.000	86	534942	40.0	40.9	
68 2-Nitropropane	41	6.788	6.788	0.000	100	181379	40.0	38.5	
81 n-Butyl acetate	43	7.971	7.971	0.000	98	450562	20.0	22.0	
84 1-Chlorohexane	91	8.551	8.551	0.000	93	334051	20.0	21.2	
93 Cyclohexanone	55	9.616	9.616	0.000	92	116135	200.0	190.9	
105 Pentachloroethane	167	10.444	10.445	-0.001	87	114703	40.0	36.8	
111 1,2,3-Trimethylbenzene	105	10.882	10.882	0.000	98	1251185	20.0	21.8	
112 Benzyl chloride	126	10.965	10.965	0.000	99	152194	20.0	17.8	
116 1,3,5-Trichlorobenzene	180	12.196	12.196	0.000	97	449196	20.0	21.5	
121 2-Methylnaphthalene	142	14.503	14.503	0.000	93	1410536	40.0	42.5	
162 1-Methylnaphthalene	142	14.787	14.775	0.012	94	1278605	40.0	41.3	

Reagents:

VMFASA9W_00304	Amount Added:	16.00	Units: uL
vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vm50ss_00431	Amount Added:	16.00	Units: uL

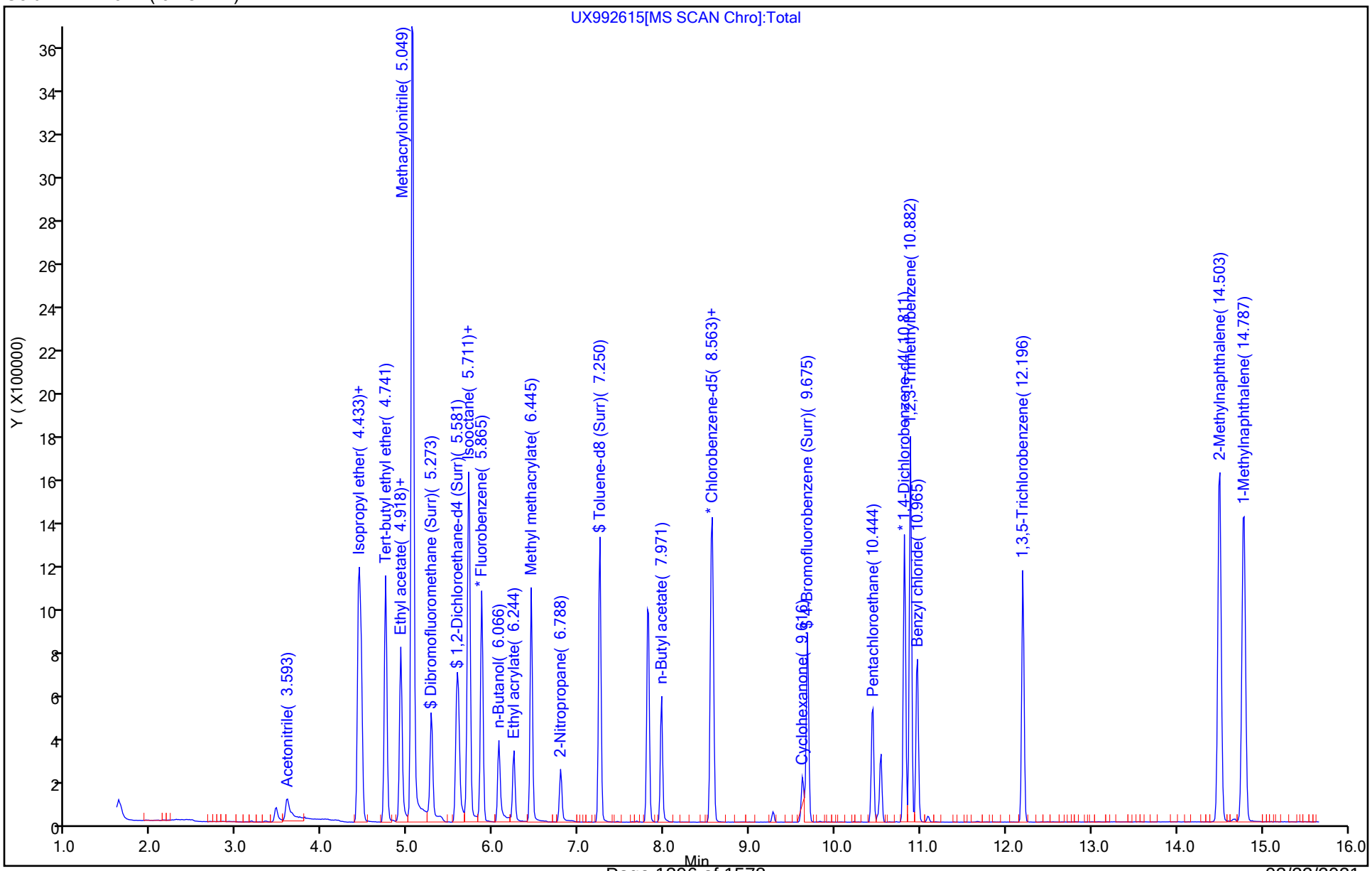
Report Date: 08-Jan-2021 14:12:22 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992615.D

Injection Date:	07-Jan-2021 18:43:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	ICV			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: ICV 240-468309/24 Calibration Date: 01/07/2021 18:43

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 16:28

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 18:20

Lab File ID: UX992615.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0265	0.0316		0.239	0.200	19.4	30.0
Isopropyl ether	Ave	0.2621	0.2797		0.0213	0.0200	6.7	30.0
2-Chloro-1,3-butadiene	Ave	0.4288	0.4678		0.0218	0.0200	9.1	30.0
Tert-butyl ethyl ether	Ave	0.8523	0.9466		0.0222	0.0200	11.1	30.0
Ethyl acetate	Ave	0.3188	0.3030		0.0380	0.0400	-4.9	30.0
Propionitrile	Ave	0.0458	0.0446		0.195	0.200	-2.4	30.0
Methacrylonitrile	Ave	0.2118	0.2143		0.202	0.200	1.2	30.0
Tert-amyl methyl ether	Ave	0.9475	1.044		0.0220	0.0200	10.2	30.0
n-Butanol	Ave	0.0100	0.0106		0.533	0.500	6.6	30.0
Ethyl acrylate	Ave	0.3319	0.3426		0.0206	0.0200	3.2	30.0
Methyl methacrylate	Ave	0.2457	0.2511		0.0409	0.0400	2.2	30.0
2-Nitropropane	Ave	0.0884	0.0851		0.0385	0.0400	-3.7	30.0
n-Butyl acetate	Ave	0.5423	0.5957		0.0220	0.0200	9.9	30.0
1-Chlorohexane	Ave	0.4164	0.4417		0.0212	0.0200	6.1	30.0
Cyclohexanone	Ave	0.0276	0.0263		0.191	0.200	-4.6	30.0
Pentachloroethane	Ave	0.1410	0.1299		0.0368	0.0400	-7.9	30.0
1,2,3-Trimethylbenzene	Ave	2.598	2.835		0.0218	0.0200	9.1	30.0
Benzyl chloride	Lin1		0.3448		0.0178	0.0200	-11.0	30.0
1,3,5-Trichlorobenzene	Ave	0.9474	1.018		0.0215	0.0200	7.4	30.0
2-Methylnaphthalene	Ave	1.504	1.598		0.0425	0.0400	6.3	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992615.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 07-Jan-2021 18:43:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-024
Operator ID: 001765 Instrument ID: A3UX9
Sublist:

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Jan-2021 14:12:19 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: bosworthh Date: 08-Jan-2021 12:14:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.865	5.865	0.000	99	1065142	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.563	8.563	0.000	86	756350	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.811	0.000	95	441406	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.273	5.275	-0.002	93	305990	20.0	20.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.569	5.570	-0.001	100	378228	20.0	19.9	
$ 6 Toluene-d8 (Surr)	98	7.250	7.251	-0.001	93	1011430	20.0	20.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.676	-0.001	88	353876	20.0	20.1	
27 Acetonitrile	41	3.593	3.593	0.000	99	336302	200.0	238.7	
38 Isopropyl ether	87	4.421	4.422	-0.001	91	297894	20.0	21.3	
39 2-Chloro-1,3-butadiene	53	4.457	4.457	0.000	93	498292	20.0	21.8	
40 Tert-butyl ethyl ether	59	4.741	4.741	0.000	96	1008246	20.0	22.2	
44 Ethyl acetate	43	4.918	4.919	-0.001	99	645504	40.0	38.0	
45 Propionitrile	54	4.918	4.919	-0.001	67	475585	200.0	195.2	
46 Methacrylonitrile	41	5.049	5.049	0.000	92	2282624	200.0	202.3	
163 Isooctane	57	5.699	5.700	-0.001	95	568224	20.0	22.3	
57 Tert-amyl methyl ether	73	5.723	5.723	0.000	97	1111744	20.0	22.0	
59 n-Butanol	56	6.066	6.066	0.000	89	282811	500.0	533.0	
61 Ethyl acrylate	55	6.244	6.244	0.000	99	364931	20.0	20.6	
64 Methyl methacrylate	41	6.445	6.445	0.000	86	534942	40.0	40.9	
68 2-Nitropropane	41	6.788	6.788	0.000	100	181379	40.0	38.5	
81 n-Butyl acetate	43	7.971	7.971	0.000	98	450562	20.0	22.0	
84 1-Chlorohexane	91	8.551	8.551	0.000	93	334051	20.0	21.2	
93 Cyclohexanone	55	9.616	9.616	0.000	92	116135	200.0	190.9	
105 Pentachloroethane	167	10.444	10.445	-0.001	87	114703	40.0	36.8	
111 1,2,3-Trimethylbenzene	105	10.882	10.882	0.000	98	1251185	20.0	21.8	
112 Benzyl chloride	126	10.965	10.965	0.000	99	152194	20.0	17.8	
116 1,3,5-Trichlorobenzene	180	12.196	12.196	0.000	97	449196	20.0	21.5	
121 2-Methylnaphthalene	142	14.503	14.503	0.000	93	1410536	40.0	42.5	
162 1-Methylnaphthalene	142	14.787	14.775	0.012	94	1278605	40.0	41.3	

Reagents:

VMFASA9W_00304	Amount Added:	16.00	Units: uL
vm100is_stk_a_00006	Amount Added:	1.00	Units: uL
vm50ss_00431	Amount Added:	16.00	Units: uL

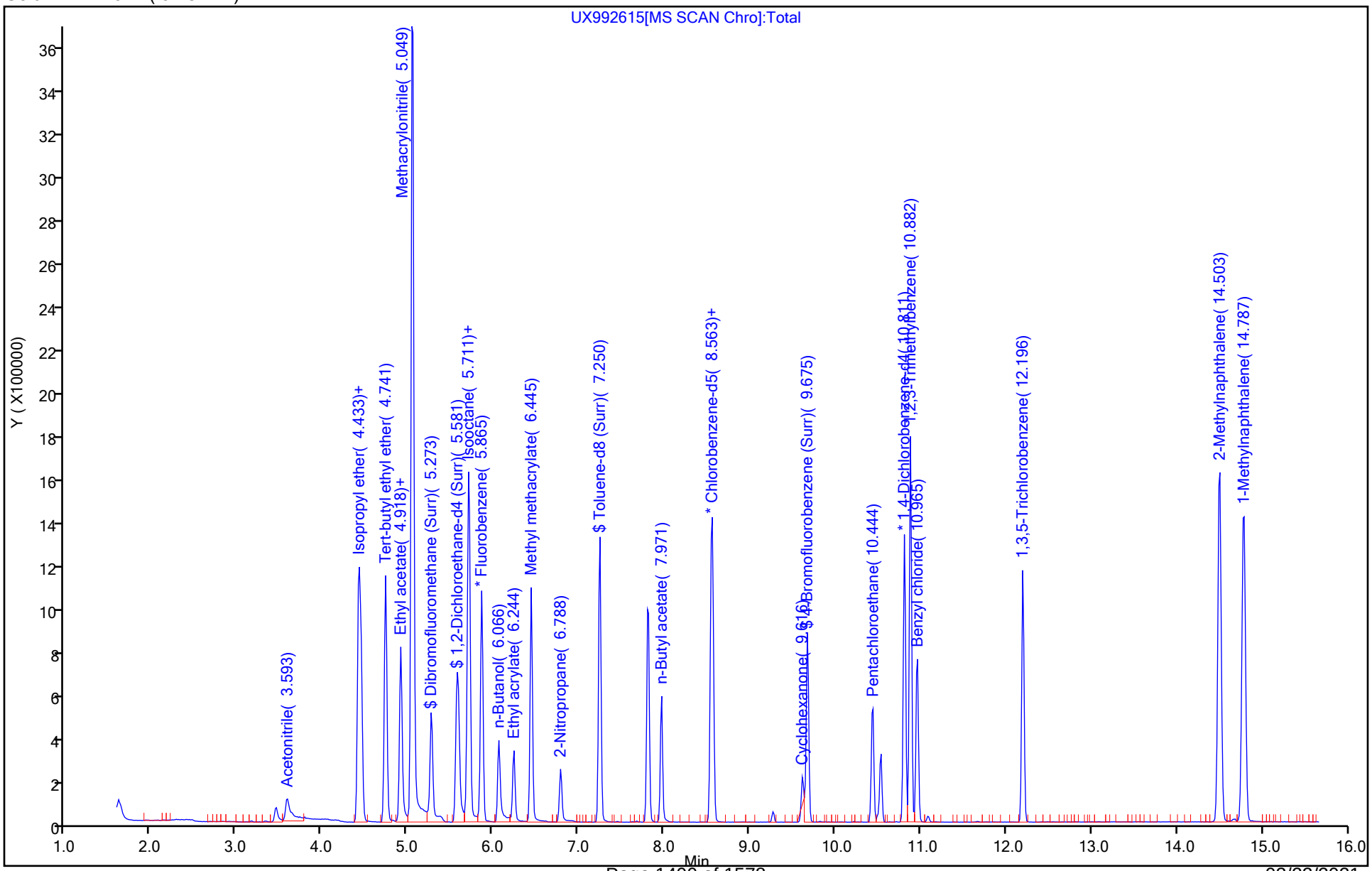
Report Date: 08-Jan-2021 14:12:22 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992615.D

Injection Date:	07-Jan-2021 18:43:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	ICV			Worklist Smp#:	24
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-477127/3 Calibration Date: 03/17/2021 07:58

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX993993.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3385	0.3181	0.1000	0.0188	0.0200	-6.0	20.0
Chloromethane	Ave	0.3292	0.2910	0.1000	0.0177	0.0200	-11.6	20.0
Vinyl chloride	Ave	0.3234	0.2915	0.1000	0.0180	0.0200	-9.9	20.0
Butadiene	Ave	0.3090	0.2641		0.0171	0.0200	-14.5	20.0
Bromomethane	Ave	0.2723	0.2185	0.0500	0.0160	0.0200	-19.8	20.0
Chloroethane	Ave	0.2417	0.2048	0.0500	0.0169	0.0200	-15.3	20.0
Dichlorofluoromethane	Ave	0.5554	0.4551		0.0164	0.0200	-18.1	20.0
Trichlorofluoromethane	Ave	0.5273	0.4374	0.1000	0.0166	0.0200	-17.0	20.0
Ethyl ether	Ave	0.2497	0.2570		0.0206	0.0200	3.0	20.0
Acrolein	Ave	0.0131	0.0183		0.140	0.100	39.7*	20.0
1,1-Dichloroethene	Ave	0.4003	0.4172	0.1000	0.0208	0.0200	4.2	20.0
Acetone	Lin1		0.0298	0.0100	0.0398	0.0400	-0.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2392	0.2806	0.0500	0.0235	0.0200	17.3	20.0
Iodomethane	Ave	0.4065	0.4496		0.0221	0.0200	10.6	20.0
Carbon disulfide	Ave	0.7054	0.8242	0.1000	0.0234	0.0200	16.8	20.0
3-Chloro-1-propene	Ave	0.3974	0.4169		0.0210	0.0200	4.9	20.0
Methyl acetate	Ave	0.2909	0.2827	0.1000	0.0389	0.0400	-2.8	50.0
Methylene Chloride	Ave	0.3619	0.3391	0.1000	0.0187	0.0200	-6.3	50.0
2-Methyl-2-propanol	Ave	0.0337	0.0361		0.214	0.200	7.1	20.0
Acrylonitrile	Ave	0.1258	0.1603		0.255	0.200	27.5*	20.0
Methyl tert-butyl ether	Ave	0.9168	0.9680	0.1000	0.0211	0.0200	5.6	20.0
trans-1,2-Dichloroethene	Ave	0.3806	0.4005	0.1000	0.0210	0.0200	5.2	20.0
Hexane	Ave	0.2473	0.3295		0.0266	0.0200	33.2*	20.0
1,1-Dichloroethane	Ave	0.4822	0.5064	0.2000	0.0210	0.0200	5.0	20.0
Vinyl acetate	Ave	0.4915	0.7000		0.0285	0.0200	42.4*	20.0
2-Butanone (MEK)	Ave	0.0463	0.0531	0.0100	0.0459	0.0400	14.6	50.0
cis-1,2-Dichloroethene	Ave	0.3362	0.3429	0.1000	0.0204	0.0200	2.0	20.0
2,2-Dichloropropane	Ave	0.3321	0.3115		0.0188	0.0200	-6.2	20.0
Chlorobromomethane	Ave	0.2401	0.2502		0.0208	0.0200	4.2	20.0
Tetrahydrofuran	Ave	0.1123	0.1181		0.0421	0.0400	5.2	20.0
Chloroform	Ave	0.5203	0.5290	0.2000	0.0203	0.0200	1.7	20.0
1,1,1-Trichloroethane	Ave	0.4461	0.4576	0.1000	0.0205	0.0200	2.6	20.0
Cyclohexane	Ave	0.3730	0.4584	0.1000	0.0246	0.0200	22.9*	20.0
1,1-Dichloropropene	Ave	0.3876	0.4297		0.0222	0.0200	10.9	20.0
Carbon tetrachloride	Ave	0.3709	0.3931	0.1000	0.0212	0.0200	6.0	20.0
Isobutyl alcohol	Ave	0.0115	0.0151		0.656	0.500	31.3*	20.0
1,2-Dichloroethane	Ave	0.4325	0.4274	0.1000	0.0198	0.0200	-1.2	20.0
Benzene	Ave	1.126	1.238	0.5000	0.0220	0.0200	10.0	20.0
n-Heptane	Lin1		0.1744		0.0249	0.0200	24.6*	20.0
Trichloroethene	Ave	0.3170	0.3446	0.1500	0.0217	0.0200	8.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-477127/3 Calibration Date: 03/17/2021 07:58

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX993993.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.3409	0.4217	0.1000	0.0247	0.0200	23.7*	20.0
1,2-Dichloropropane	Ave	0.2428	0.2717	0.1000	0.0224	0.0200	11.9	20.0
1,4-Dioxane	Ave	0.0032	0.0041		0.508	0.400	27.1	50.0
Dibromomethane	Ave	0.2008	0.2213		0.0220	0.0200	10.2	20.0
Dichlorobromomethane	Ave	0.3679	0.3864	0.1500	0.0210	0.0200	5.0	20.0
2-Chloroethyl vinyl ether	Ave	0.1694	0.2164		0.0511	0.0400	27.7*	20.0
cis-1,3-Dichloropropene	Ave	0.4255	0.4950	0.1500	0.0233	0.0200	16.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3282	0.3806	0.0500	0.0464	0.0400	16.0	50.0
Toluene	Ave	1.533	1.600	0.4000	0.0209	0.0200	4.4	20.0
trans-1,3-Dichloropropene	Ave	0.5200	0.5845	0.1000	0.0225	0.0200	12.4	20.0
Ethyl methacrylate	Ave	0.4317	0.5199		0.0241	0.0200	20.4*	20.0
1,1,2-Trichloroethane	Ave	0.3221	0.3379	0.1000	0.0210	0.0200	4.9	20.0
1,3-Dichloropropane	Ave	0.5766	0.6150		0.0213	0.0200	6.7	20.0
Tetrachloroethene	Ave	0.3627	0.3883	0.1500	0.0214	0.0200	7.1	20.0
2-Hexanone	Ave	0.2854	0.3340	0.0500	0.0468	0.0400	17.1	50.0
Chlorodibromomethane	Ave	0.3396	0.3480		0.0205	0.0200	2.5	20.0
Ethylene Dibromide	Ave	0.3431	0.3764		0.0219	0.0200	9.7	20.0
Chlorobenzene	Ave	0.9931	1.041	0.3000	0.0210	0.0200	4.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3613	0.3645		0.0202	0.0200	0.9	20.0
Ethylbenzene	Ave	0.5106	0.5453		0.0214	0.0200	6.8	20.0
m-Xylene & p-Xylene	Ave	0.6363	0.6914		0.0217	0.0200	8.7	20.0
o-Xylene	Ave	0.6538	0.6759		0.0207	0.0200	3.4	20.0
Styrene	Ave	0.9231	1.024	0.3000	0.0222	0.0200	10.9	20.0
Bromoform	Ave	0.2137	0.2367	0.1000	0.0222	0.0200	10.8	20.0
Isopropylbenzene	Ave	1.593	1.638	0.1000	0.0206	0.0200	2.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8818	0.9773	0.3000	0.0222	0.0200	10.8	20.0
1,2,3-Trichloropropane	Ave	0.3377	0.3748		0.0222	0.0200	11.0	20.0
Bromobenzene	Ave	0.7275	0.8126		0.0223	0.0200	11.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2682	0.3158		0.0235	0.0200	17.7	20.0
N-Propylbenzene	Ave	0.7478	0.8219		0.0220	0.0200	9.9	20.0
2-Chlorotoluene	Ave	0.7083	0.7388		0.0209	0.0200	4.3	20.0
1,3,5-Trimethylbenzene	Ave	2.297	2.438		0.0212	0.0200	6.1	20.0
4-Chlorotoluene	Ave	0.7122	0.7720		0.0217	0.0200	8.4	20.0
tert-Butylbenzene	Ave	2.052	2.082		0.0203	0.0200	1.5	20.0
1,2,4-Trimethylbenzene	Ave	2.391	2.520		0.0211	0.0200	5.4	20.0
sec-Butylbenzene	Ave	0.5511	0.5980		0.0217	0.0200	8.5	20.0
1,3-Dichlorobenzene	Ave	1.422	1.488	0.6000	0.0209	0.0200	4.6	20.0
4-Isopropyltoluene	Ave	2.295	2.464		0.0215	0.0200	7.4	20.0
1,4-Dichlorobenzene	Ave	1.453	1.535	0.5000	0.0211	0.0200	5.6	20.0
n-Butylbenzene	Ave	1.854	1.966		0.0212	0.0200	6.0	20.0
1,2-Dichlorobenzene	Ave	1.468	1.479	0.4000	0.0201	0.0200	0.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCVIS 240-477127/3 Calibration Date: 03/17/2021 07:58

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 12:44

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 14:59

Lab File ID: UX993993.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin1		0.2528	0.0500	0.0195	0.0200	-2.4	50.0
1,2,4-Trichlorobenzene	Ave	0.8593	0.8110	0.2000	0.0189	0.0200	-5.6	50.0
Hexachlorobutadiene	Ave	0.2670	0.2679		0.0201	0.0200	0.3	50.0
Naphthalene	Ave	3.114	2.966		0.0190	0.0200	-4.8	50.0
1,2,3-Trichlorobenzene	Ave	0.8170	0.7549		0.0185	0.0200	-7.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2856	0.2614		0.0148	0.0162	-8.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3565	0.3222		0.0147	0.0162	-9.6	20.0
Toluene-d8 (Surr)	Ave	1.330	1.331		0.0162	0.0162	0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4647	0.5487		0.0192	0.0162	18.1	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX993993.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 17-Mar-2021 07:58:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107352-003
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub46

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 17-Mar-2021 13:19:33 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 11:36:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.866	5.866	0.000	99	1500243	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.564	8.564	0.000	85	1227023	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.812	10.812	0.000	92	661723	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.274	5.274	0.000	94	318030	16.2	14.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.570	5.570	0.000	100	392056	16.2	14.7	
$ 6 Toluene-d8 (Surr)	98	7.250	7.250	0.000	92	1324686	16.2	16.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.676	9.676	0.000	90	546059	16.2	19.2	
9 Dichlorodifluoromethane	85	1.772	1.772	0.000	100	477253	20.0	18.8	
10 Chloromethane	50	1.985	1.985	0.000	100	436594	20.0	17.7	
11 Vinyl chloride	62	2.103	2.103	0.000	99	437370	20.0	18.0	
12 Butadiene	54	2.127	2.127	0.000	92	396246	20.0	17.1	
13 Bromomethane	94	2.470	2.470	0.000	90	327849	20.0	16.0	
15 Chloroethane	64	2.564	2.564	0.000	98	307255	20.0	16.9	
16 Dichlorofluoromethane	67	2.754	2.754	0.000	98	682820	20.0	16.4	
17 Trichlorofluoromethane	101	2.825	2.825	0.000	100	656217	20.0	16.6	
18 Ethyl ether	59	3.073	3.073	0.000	87	385636	20.0	20.6	
21 Acrolein	56	3.180	3.180	0.000	98	137268	100.0	139.7	
24 1,1-Dichloroethene	61	3.298	3.298	0.000	98	625953	20.0	20.8	
23 Acetone	58	3.333	3.333	0.000	100	89296	40.0	39.8	
22 112TCTFE	101	3.345	3.345	0.000	94	420932	20.0	23.5	
25 Iodomethane	142	3.487	3.487	0.000	99	674578	20.0	22.1	
26 Carbon disulfide	76	3.535	3.535	0.000	99	1236446	20.0	23.4	
28 3-Chloro-1-propene	41	3.629	3.629	0.000	89	625520	20.0	21.0	
29 Methyl acetate	43	3.641	3.641	0.000	96	848189	40.0	38.9	
30 Methylene Chloride	49	3.736	3.736	0.000	88	508755	20.0	18.7	
31 2-Methyl-2-propanol	59	3.830	3.830	0.000	99	541197	200.0	214.1	
32 Acrylonitrile	53	3.949	3.949	0.000	99	2405360	200.0	255.0	
34 trans-1,2-Dichloroethene	61	3.996	3.996	0.000	63	600820	20.0	21.0	
33 Methyl tert-butyl ether	73	3.996	3.996	0.000	94	1452178	20.0	21.1	
35 Hexane	57	4.245	4.245	0.000	91	494264	20.0	26.6	
36 1,1-Dichloroethane	63	4.363	4.363	0.000	97	759771	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 Vinyl acetate	43	4.398	4.398	0.000	97	1050110	20.0	28.5	
41 2-Butanone (MEK)	72	4.872	4.872	0.000	81	159328	40.0	45.9	
43 cis-1,2-Dichloroethene	96	4.872	4.872	0.000	82	514505	20.0	20.4	
42 2,2-Dichloropropane	77	4.884	4.884	0.000	86	467291	20.0	18.8	
47 Chlorobromomethane	49	5.073	5.073	0.000	92	375381	20.0	20.8	
48 Tetrahydrofuran	42	5.120	5.120	0.000	84	354340	40.0	42.1	
49 Chloroform	83	5.132	5.132	0.000	94	793573	20.0	20.3	
50 1,1,1-Trichloroethane	97	5.321	5.321	0.000	98	686569	20.0	20.5	
51 Cyclohexane	84	5.381	5.381	0.000	85	687784	20.0	24.6	
52 1,1-Dichloropropene	75	5.452	5.452	0.000	97	644640	20.0	22.2	
53 Carbon tetrachloride	117	5.463	5.463	0.000	98	589769	20.0	21.2	
54 Isobutyl alcohol	41	5.499	5.499	0.000	93	564493	500.0	656.4	
56 1,2-Dichloroethane	62	5.629	5.629	0.000	59	641151	20.0	19.8	
55 Benzene	78	5.641	5.641	0.000	95	1857706	20.0	22.0	
58 n-Heptane	71	5.842	5.842	0.000	93	261703	20.0	24.9	
60 Trichloroethene	130	6.185	6.185	0.000	97	516970	20.0	21.7	
62 Methylcyclohexane	83	6.363	6.363	0.000	87	632599	20.0	24.7	
63 1,2-Dichloropropane	63	6.375	6.375	0.000	94	407689	20.0	22.4	
66 Dibromomethane	174	6.481	6.481	0.000	94	331963	20.0	22.0	
65 1,4-Dioxane	88	6.481	6.481	0.000	86	122960	400.0	508.3	
67 Dichlorobromomethane	83	6.599	6.599	0.000	100	579709	20.0	21.0	
69 2-Chloroethyl vinyl ether	63	6.848	6.848	0.000	94	649319	40.0	51.1	
71 cis-1,3-Dichloropropene	75	6.990	6.990	0.000	96	742601	20.0	23.3	
72 4-Methyl-2-pentanone (MIBK)	43	7.108	7.108	0.000	94	1141911	40.0	46.4	
73 Toluene	91	7.309	7.309	0.000	99	1963492	20.0	20.9	
74 trans-1,3-Dichloropropene	75	7.475	7.475	0.000	93	717229	20.0	22.5	
75 Ethyl methacrylate	69	7.546	7.546	0.000	87	637928	20.0	24.1	
76 1,1,2-Trichloroethane	97	7.652	7.652	0.000	92	414616	20.0	21.0	
77 1,3-Dichloropropane	76	7.806	7.806	0.000	88	754635	20.0	21.3	
78 Tetrachloroethene	166	7.806	7.806	0.000	73	476444	20.0	21.4	
80 2-Hexanone	43	7.854	7.854	0.000	94	819717	40.0	46.8	
82 Chlorodibromomethane	129	8.019	8.019	0.000	90	426962	20.0	20.5	
83 Ethylene Dibromide	107	8.138	8.138	0.000	99	461833	20.0	21.9	
85 Chlorobenzene	112	8.599	8.599	0.000	96	1277580	20.0	21.0	
86 1,1,1,2-Tetrachloroethane	131	8.658	8.658	0.000	95	447252	20.0	20.2	
87 Ethylbenzene	106	8.682	8.682	0.000	98	669042	20.0	21.4	
88 m-Xylene & p-Xylene	106	8.800	8.800	0.000	100	848412	20.0	21.7	
89 o-Xylene	106	9.179	9.179	0.000	95	829361	20.0	20.7	
90 Styrene	104	9.179	9.179	0.000	92	1256260	20.0	22.2	
91 Bromoform	173	9.368	9.368	0.000	96	290429	20.0	22.2	
92 Isopropylbenzene	105	9.522	9.522	0.000	96	2010385	20.0	20.6	
94 1,1,2,2-Tetrachloroethane	83	9.794	9.794	0.000	96	646680	20.0	22.2	
95 Bromobenzene	156	9.842	9.842	0.000	96	537711	20.0	22.3	
96 trans-1,4-Dichloro-2-butene	53	9.842	9.842	0.000	72	208971	20.0	23.5	
97 1,2,3-Trichloropropane	110	9.842	9.842	0.000	82	247992	20.0	22.2	
98 N-Propylbenzene	120	9.924	9.924	0.000	99	543877	20.0	22.0	
100 2-Chlorotoluene	126	10.019	10.019	0.000	96	488890	20.0	20.9	
101 1,3,5-Trimethylbenzene	105	10.090	10.090	0.000	94	1613191	20.0	21.2	
102 4-Chlorotoluene	126	10.126	10.126	0.000	97	510849	20.0	21.7	
104 tert-Butylbenzene	119	10.421	10.421	0.000	90	1377700	20.0	20.3	
106 1,2,4-Trimethylbenzene	105	10.457	10.457	0.000	97	1667256	20.0	21.1	
107 sec-Butylbenzene	134	10.634	10.634	0.000	94	395680	20.0	21.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 1,3-Dichlorobenzene	146	10.753	10.753	0.000	97	984426	20.0	20.9	
109 4-Isopropyltoluene	119	10.764	10.764	0.000	97	1630228	20.0	21.5	
110 1,4-Dichlorobenzene	146	10.835	10.835	0.000	94	1015460	20.0	21.1	
113 n-Butylbenzene	91	11.179	11.179	0.000	96	1300978	20.0	21.2	
114 1,2-Dichlorobenzene	146	11.214	11.214	0.000	98	978448	20.0	20.1	
115 1,2-Dibromo-3-Chloropropane	157	11.971	11.971	0.000	96	167258	20.0	19.5	
117 1,2,4-Trichlorobenzene	180	12.823	12.823	0.000	94	536647	20.0	18.9	
118 Hexachlorobutadiene	225	13.001	13.001	0.000	97	177252	20.0	20.1	
119 Naphthalene	128	13.084	13.084	0.000	97	1962519	20.0	19.0	
120 1,2,3-Trichlorobenzene	180	13.356	13.356	0.000	96	499550	20.0	18.5	
S 158 Total BTEX	1				0		100.0	106.6	
S 130 Trihalomethanes, Total	83				0		80.0	84.0	
S 131 Xylenes, Total	106				0		40.0	42.4	

QC Flag Legend

Processing Flags

Reagents:

vmrgas_00377	Amount Added:	16.00	Units: uL	
vmrprimw_00427	Amount Added:	16.00	Units: uL	
vmarolistdw_00384	Amount Added:	16.00	Units: uL	
vm100is_stk_a_00006	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm100ss_stk_00033	Amount Added:	0.81	Units: uL	Run Reagent

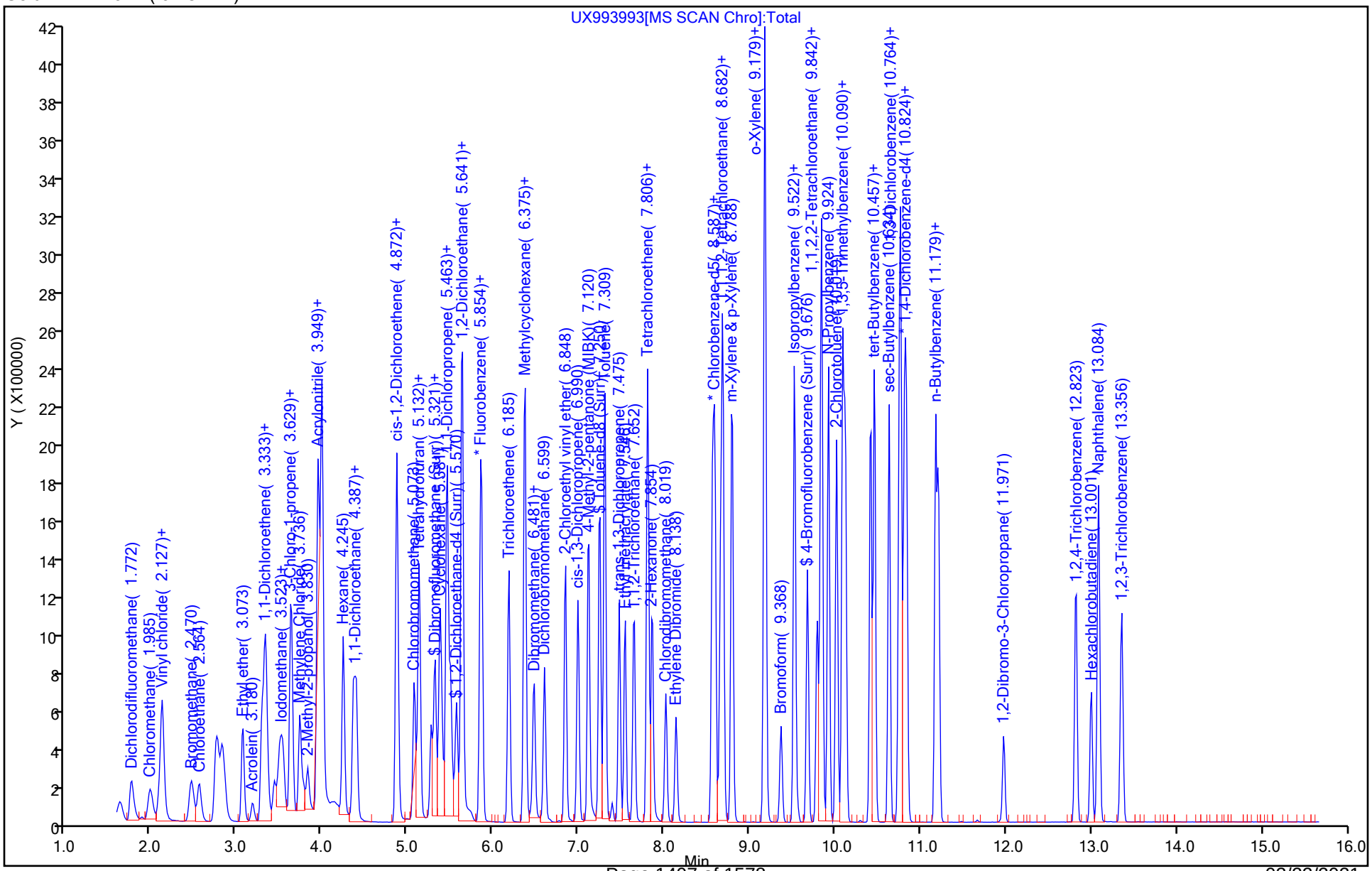
Report Date: 17-Mar-2021 13:19:37 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX993993.D

Injection Date:	17-Mar-2021 07:58:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Lab Sample ID: CCV 240-477127/4 Calibration Date: 03/17/2021 08:21

Instrument ID: A3UX9 Calib Start Date: 01/07/2021 16:28

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/07/2021 18:20

Lab File ID: UX993994.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0265	0.0382		0.289	0.200	44.5*	20.0
Isopropyl ether	Ave	0.2621	0.2441		0.0186	0.0200	-6.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4288	0.3969		0.0185	0.0200	-7.4	20.0
Tert-butyl ethyl ether	Ave	0.8523	0.7764		0.0182	0.0200	-8.9	20.0
Ethyl acetate	Ave	0.3188	0.3367		0.0423	0.0400	5.6	20.0
Propionitrile	Ave	0.0458	0.0524		0.229	0.200	14.5	20.0
Methacrylonitrile	Ave	0.2118	0.2124		0.201	0.200	0.3	20.0
Tert-amyl methyl ether	Ave	0.9475	0.8714		0.0184	0.0200	-8.0	20.0
n-Butanol	Ave	0.0100	0.0116		0.581	0.500	16.2	20.0
Ethyl acrylate	Ave	0.3319	0.4200		0.0253	0.0200	26.5*	20.0
Methyl methacrylate	Ave	0.2457	0.2763		0.0450	0.0400	12.5	20.0
2-Nitropropane	Ave	0.0884	0.0896		0.0405	0.0400	1.3	20.0
n-Butyl acetate	Ave	0.5423	0.5577		0.0206	0.0200	2.8	20.0
1-Chlorohexane	Ave	0.4164	0.3956		0.0190	0.0200	-5.0	20.0
Cyclohexanone	Ave	0.0276	0.0304		0.221	0.200	10.3	20.0
Pentachloroethane	Ave	0.1410	0.3474		0.0985	0.0400	146.3*	20.0
1,2,3-Trimethylbenzene	Ave	2.598	2.273		0.0175	0.0200	-12.5	20.0
Benzyl chloride	Lin1		0.3925		0.0202	0.0200	1.1	20.0
1,3,5-Trichlorobenzene	Ave	0.9474	0.7689		0.0162	0.0200	-18.8	20.0
2-Methylnaphthalene	Ave	1.504	1.157		0.0308	0.0400	-23.1*	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX993994.D
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 17-Mar-2021 08:21:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107352-004
Operator ID: 001765 Instrument ID: A3UX9
Sublist: chrom-8260_9*sub58

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 17-Mar-2021 11:36:51 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 11:36:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.864	5.864	0.000	99	1493499	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.562	8.562	0.000	86	1242571	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.810	10.810	0.000	95	642634	20.0	20.0	
27 Acetonitrile	41	3.592	3.592	0.000	99	570980	200.0	289.1	
38 Isopropyl ether	87	4.433	4.433	0.000	92	364580	20.0	18.6	
39 2-Chloro-1,3-butadiene	53	4.456	4.456	0.000	91	592778	20.0	18.5	
40 Tert-butyl ethyl ether	59	4.740	4.740	0.000	95	1159613	20.0	18.2	
44 Ethyl acetate	43	4.918	4.918	0.000	99	1005814	40.0	42.3	
45 Propionitrile	54	4.918	4.918	0.000	68	782237	200.0	228.9	
46 Methacrylonitrile	41	5.060	5.060	0.000	91	3171781	200.0	200.5	
163 Isooctane	57	5.710	5.710	0.000	95	751933	20.0	21.1	
57 Tert-amyl methyl ether	73	5.722	5.722	0.000	97	1301381	20.0	18.4	
59 n-Butanol	56	6.065	6.065	0.000	85	432424	500.0	581.2	
61 Ethyl acrylate	55	6.243	6.243	0.000	99	627263	20.0	25.3	
64 Methyl methacrylate	41	6.444	6.444	0.000	86	825391	40.0	45.0	
68 2-Nitropropane	41	6.787	6.787	0.000	98	267529	40.0	40.5	
81 n-Butyl acetate	43	7.971	7.971	0.000	97	692985	20.0	20.6	
84 1-Chlorohexane	91	8.550	8.550	0.000	93	491536	20.0	19.0	
93 Cyclohexanone	55	9.615	9.615	0.000	91	195347	200.0	220.5	
105 Pentachloroethane	167	10.444	10.444	0.000	91	446470	40.0	98.5	
111 1,2,3-Trimethylbenzene	105	10.881	10.881	0.000	98	1460843	20.0	17.5	
112 Benzyl chloride	126	10.964	10.964	0.000	98	252225	20.0	20.2	
116 1,3,5-Trichlorobenzene	180	12.195	12.195	0.000	97	494105	20.0	16.2	
121 2-Methylnaphthalene	142	14.502	14.502	0.000	93	1486587	40.0	30.8	
162 1-Methylnaphthalene	142	14.786	14.786	0.000	94	1342149	40.0	29.8	

QC Flag Legend
Processing Flags

Reagents:

vmra9w_00383	Amount Added: 16.00	Units: uL
vm100is_stk_a_00006	Amount Added: 1.00	Units: uL

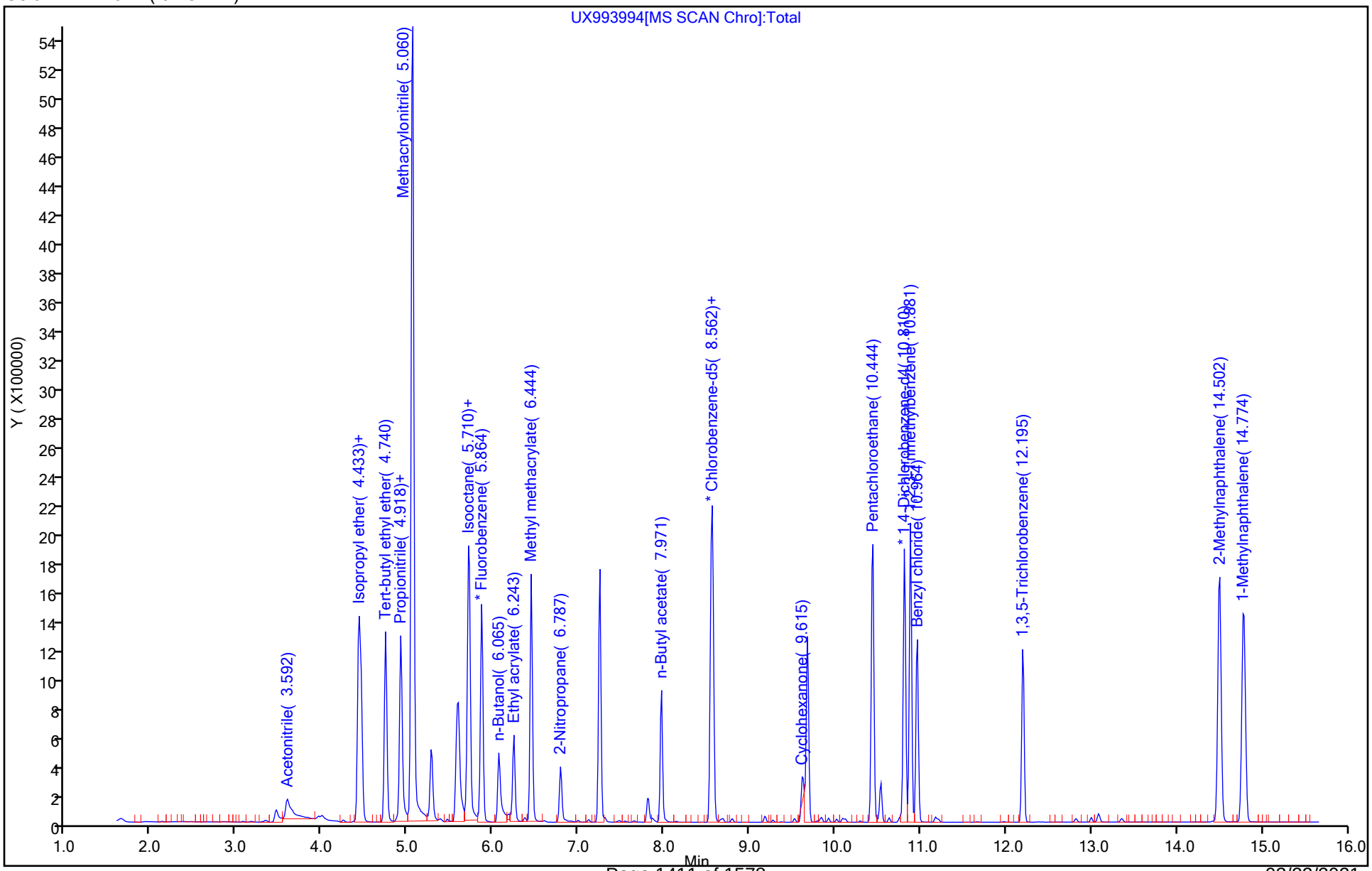
Report Date: 17-Mar-2021 11:36:52 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX993994.D

Injection Date:	17-Mar-2021 08:21:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	CCV A9			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\BFB6489.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Sep-2020 11:23:30 ALS Bottle#: 2 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0101704-001
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 08-Sep-2020 15:52:32 Calib Date: 08-Sep-2020 14:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31028.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1011

First Level Reviewer: bosworthh Date: 08-Sep-2020 11:43:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.888	3.888	0.000	0	272662	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

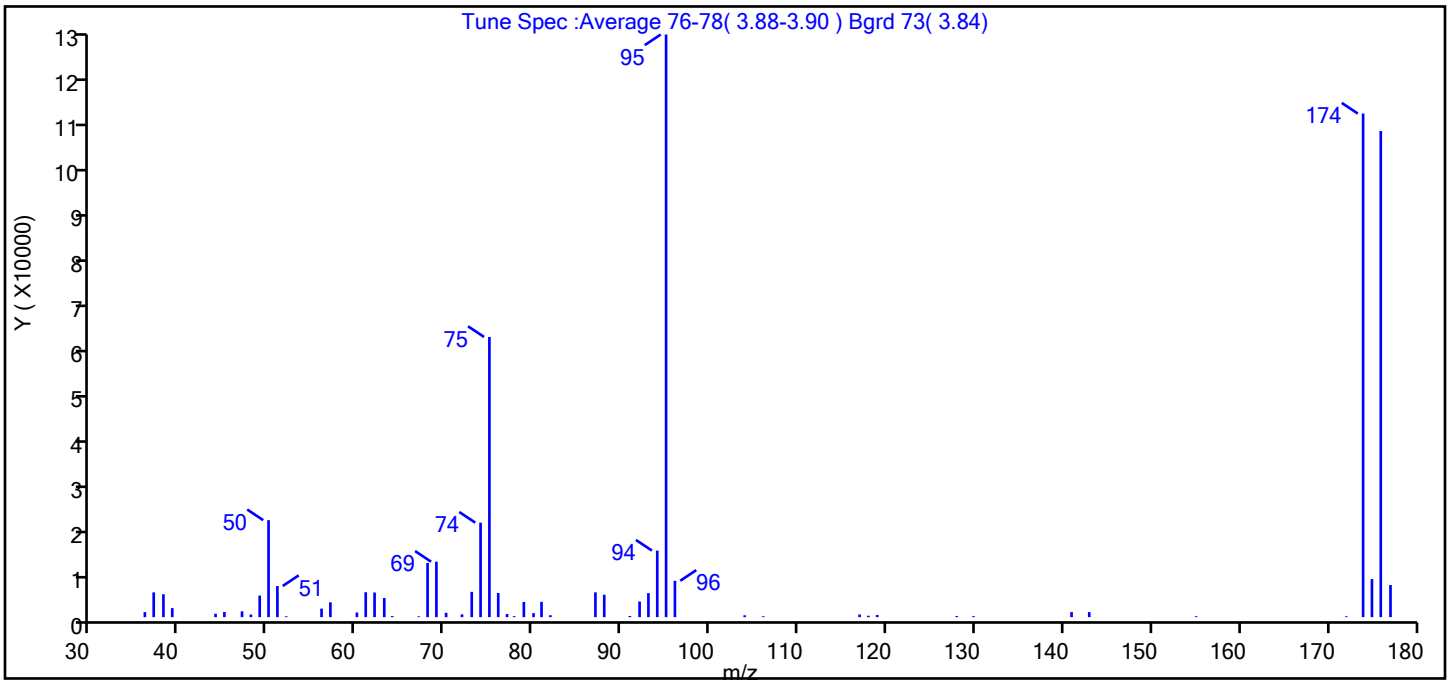
vmbfb_00025 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\BFB6489.D				
Injection Date:	08-Sep-2020 11:23:30	Instrument ID:	A3UX16		
Lims ID:	BFB				
Client ID:					
Operator ID:	001765	ALS Bottle#:	2	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.6
75	30 to 60% of m/z 95	48.1
96	5 to 9% of m/z 95	6.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	86.4
175	5 to 9% of m/z 174	6.5 (7.6)
176	Greater than 95% but less than 101% of m/z 174	83.4 (96.5)
177	5 to 9% of m/z 176	5.5 (6.6)

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\BFB6489.D\8260_16.rslt\spectra.d
Injection Date: 08-Sep-2020 11:23:30
Spectrum: Tune Spec :Average 76-78(3.88-3.90) Bgrd 73(3.84)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1062	61.00	5274	79.00	3212	118.00	298
37.00	5239	62.00	5213	80.00	840	119.00	459
38.00	4849	63.00	4050	81.00	3233	128.00	231
39.00	1913	64.00	228	82.00	408	130.00	205
44.00	715	67.00	170	87.00	5249	141.00	1067
45.00	1090	68.00	11455	88.00	4744	143.00	1063
47.00	1234	69.00	11727	91.00	253	155.00	190
48.00	549	70.00	917	92.00	3307	172.00	178
49.00	4568	72.00	588	93.00	5082	174.00	106520
50.00	20512	73.00	5352	94.00	14078	175.00	8053
51.00	6586	74.00	19992	95.00	123248	176.00	102832
52.00	182	75.00	59264	96.00	7692	177.00	6800
56.00	1806	76.00	5109	104.00	390		
57.00	3131	77.00	652	106.00	185		
60.00	986	78.00	215	117.00	557		

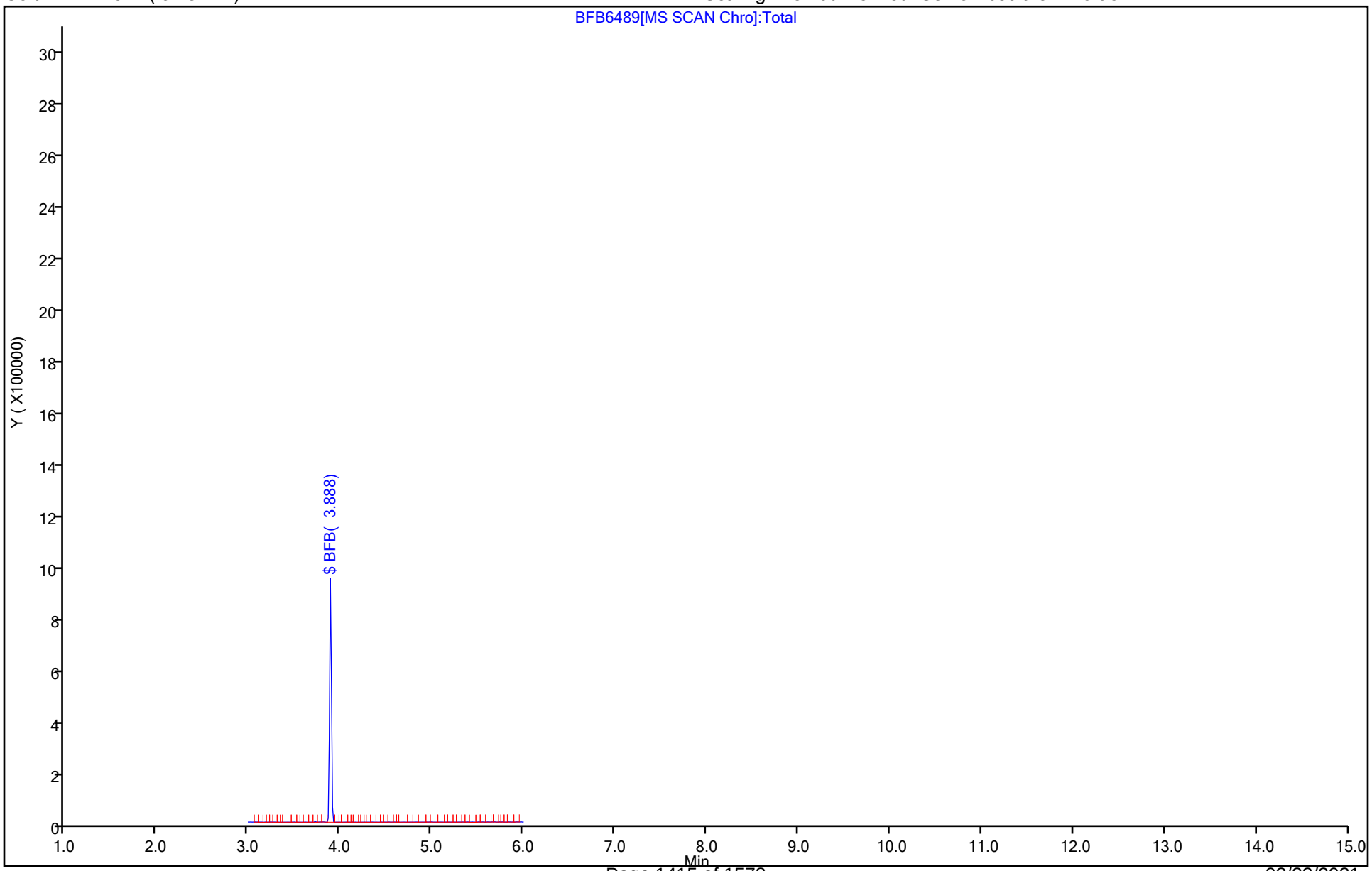
Report Date: 08-Sep-2020 15:52:33 Chrom Revision: 2.3 20-Aug-2020 13:57:12

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\BFB6489.D

Injection Date:	08-Sep-2020 11:23:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\BFB6644.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Mar-2021 08:44:30 ALS Bottle#: 72 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-001
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 09:25:19 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: bosworthh Date: 11-Mar-2021 09:25:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.888	3.888	0.000	0	572568	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

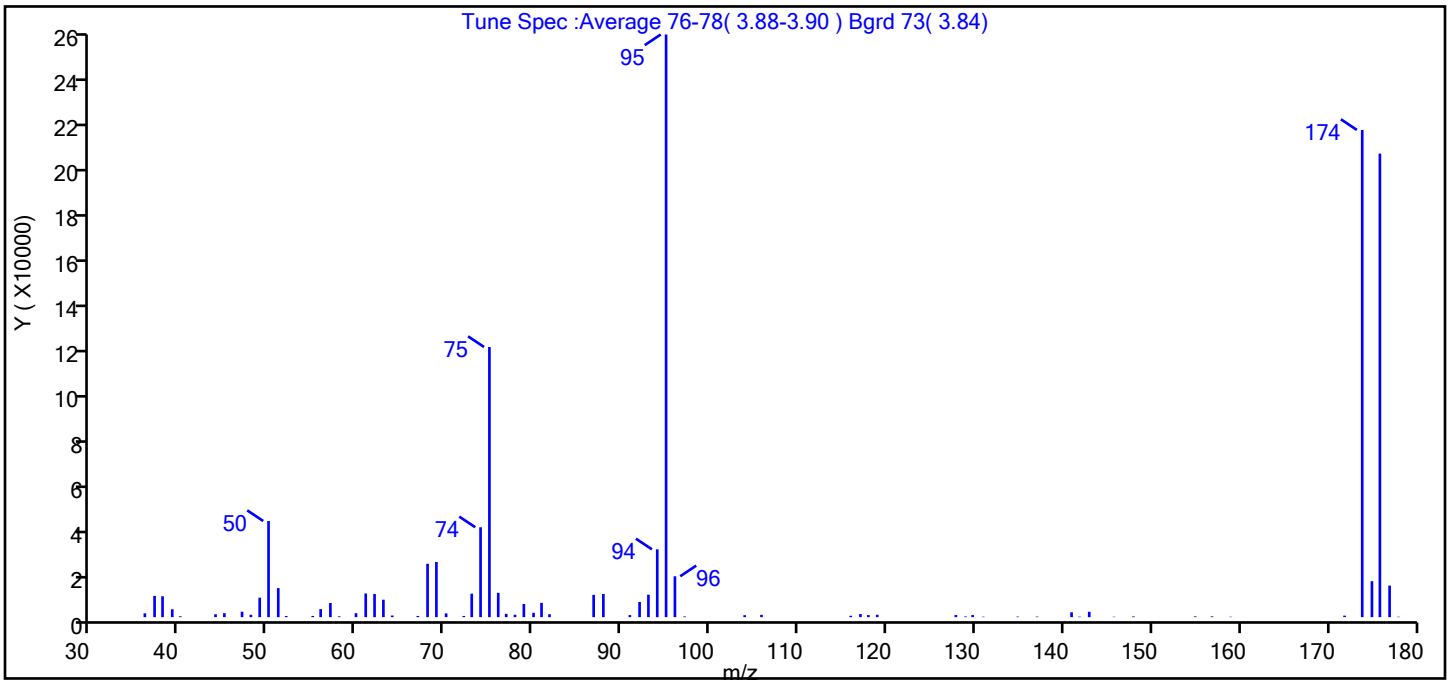
vmbfb_00026 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\BFB6644.D
Injection Date: 11-Mar-2021 08:44:30 Instrument ID: A3UX16
Lims ID: BFB
Client ID:
Operator ID: 001765 ALS Bottle#: 72 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

$ 8 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	46.4
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	83.6
175	5 to 9% of m/z 174	6.2 (7.4)
176	Greater than 95% but less than 101% of m/z 174	79.6 (95.1)
177	5 to 9% of m/z 176	5.4 (6.8)

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\BFB6644.D\8260_16.rslt\spectra.d
Injection Date: 11-Mar-2021 08:44:30
Spectrum: Tune Spec :Average 76-78(3.88-3.90) Bgrd 73(3.84)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1679	61.00	10438	82.00	1289	130.00	928
37.00	9375	62.00	10222	87.00	9837	131.00	196
38.00	9224	63.00	7691	88.00	10196	135.00	256
39.00	3473	64.00	717	91.00	910	137.00	245
40.00	385	67.00	518	92.00	6709	141.00	2142
44.00	1272	68.00	23544	93.00	9894	142.00	212
45.00	1741	69.00	24352	94.00	29912	143.00	2361
47.00	2404	70.00	1658	95.00	257024	146.00	175
48.00	1039	72.00	525	96.00	18032	148.00	324
49.00	8573	73.00	10360	97.00	309	155.00	333
50.00	42400	74.00	39656	104.00	866	157.00	345
51.00	12811	75.00	119160	106.00	1004	159.00	175
52.00	515	76.00	10722	116.00	604	172.00	669
55.00	526	77.00	1462	117.00	1360	174.00	214912
56.00	3560	78.00	1062	118.00	911	175.00	15864
57.00	6239	79.00	5817	119.00	1057	176.00	204480
58.00	354	80.00	1920	128.00	924	177.00	13910
60.00	1740	81.00	6307	129.00	309	178.00	184

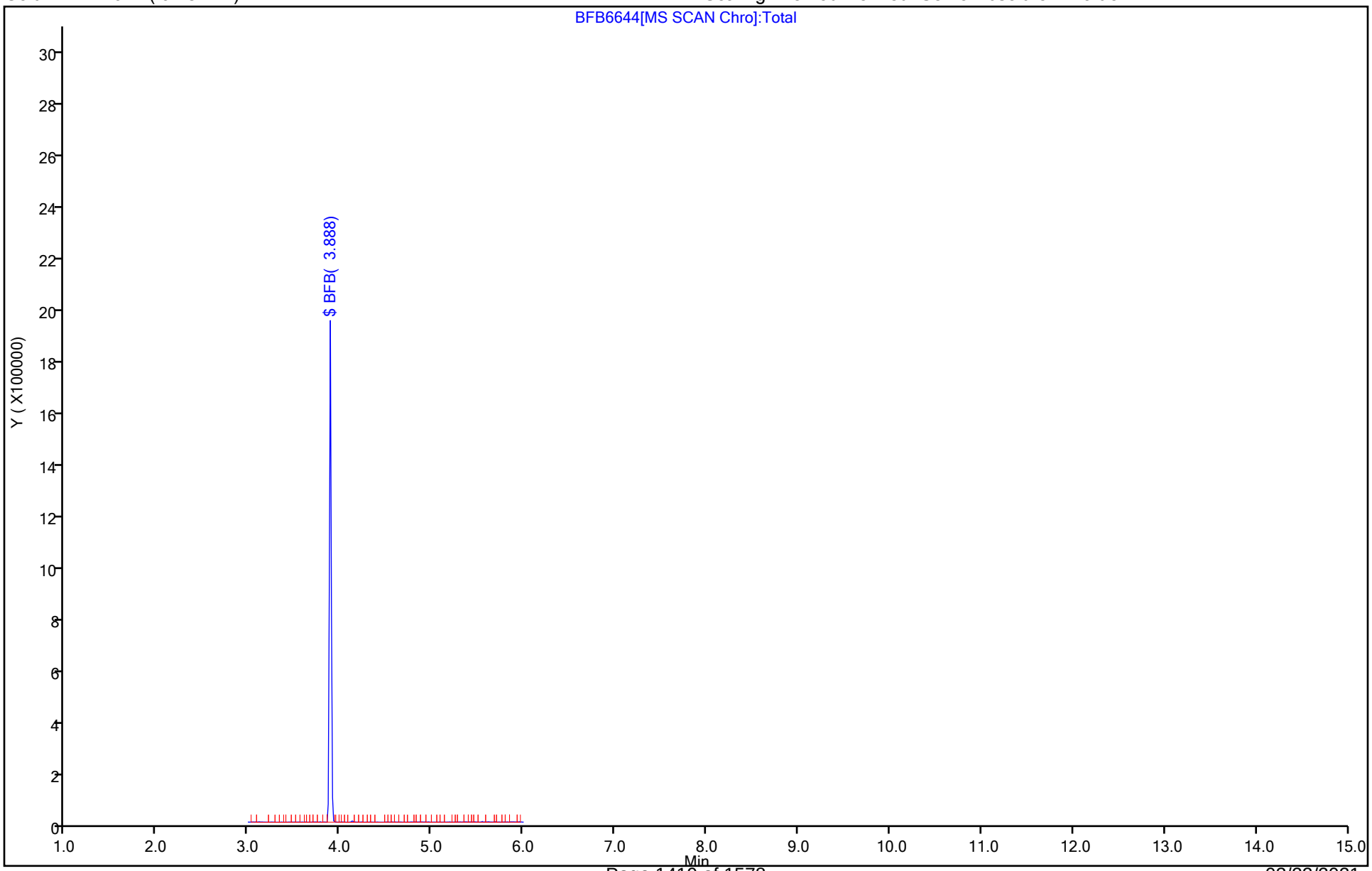
Report Date: 11-Mar-2021 09:25:19 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\BFB6644.D

Injection Date:	11-Mar-2021 08:44:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	72
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\BFB6646.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 16-Mar-2021 10:14:30 ALS Bottle#: 74 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-001
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 11:18:14 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1613

First Level Reviewer: bosworthh Date: 16-Mar-2021 11:18:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.923	3.923	0.000	0	295736	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

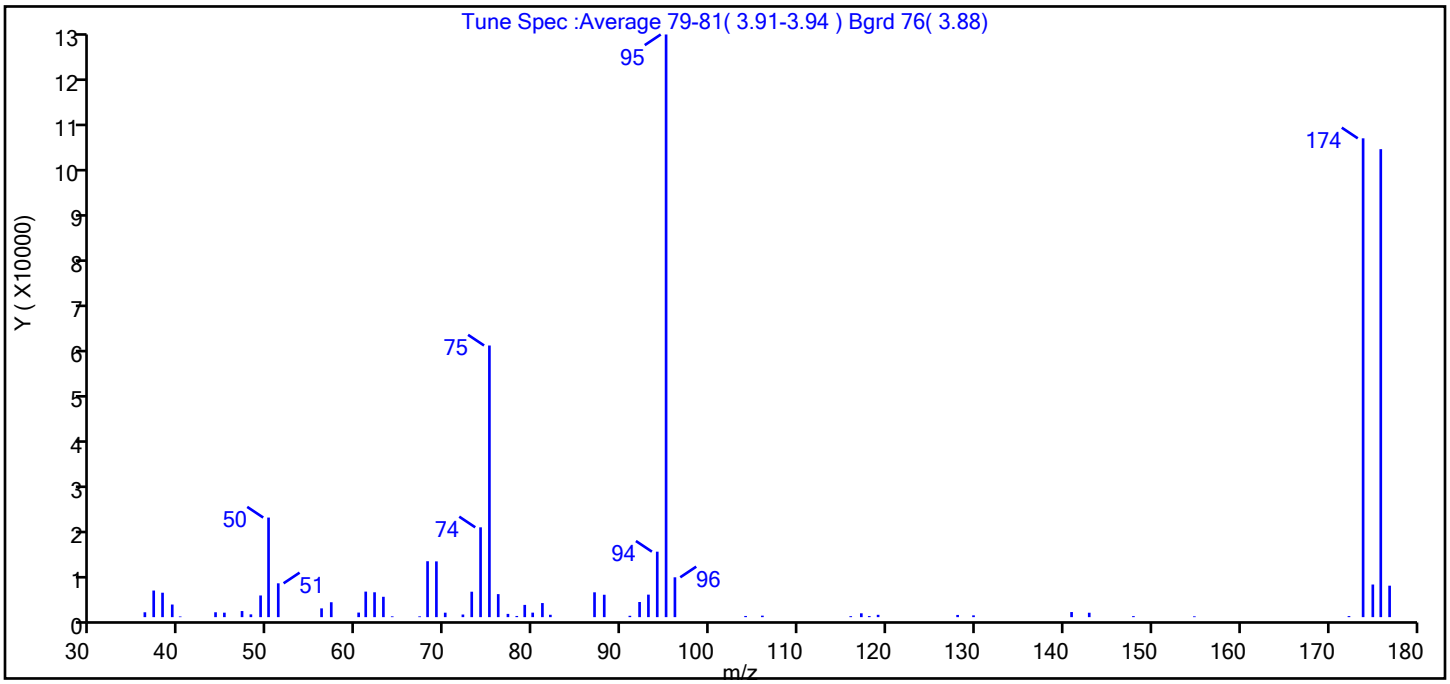
vmbfb_00026 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\BFB6646.D
Injection Date: 16-Mar-2021 10:14:30 Instrument ID: A3UX16
Lims ID: BFB
Client ID:
Operator ID: 001765 ALS Bottle#: 74 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.1
75	30 to 60% of m/z 95	46.6
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.2
175	5 to 9% of m/z 174	5.6 (6.8)
176	Greater than 95% but less than 101% of m/z 174	80.3 (97.7)
177	5 to 9% of m/z 176	5.4 (6.7)

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\BFB6646.D\8260_16.rslt\spectra.d
Injection Date: 16-Mar-2021 10:14:30
Spectrum: Tune Spec :Average 79-81(3.91-3.94) Bgrd 76(3.88)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1042	61.00	5464	79.00	2619	117.00	824
37.00	5691	62.00	5320	80.00	963	118.00	227
38.00	5227	63.00	4354	81.00	3013	119.00	498
39.00	2699	64.00	170	82.00	506	128.00	471
40.00	139	67.00	168	87.00	5313	130.00	383
44.00	1044	68.00	11963	88.00	4791	141.00	1092
45.00	957	69.00	11930	91.00	291	143.00	943
47.00	1304	70.00	953	92.00	3239	148.00	217
48.00	593	72.00	563	93.00	4815	155.00	173
49.00	4636	73.00	5441	94.00	14006	172.00	226
50.00	21304	74.00	19216	95.00	124648	174.00	102432
51.00	7238	75.00	58112	96.00	8523	175.00	6980
56.00	1878	76.00	4925	104.00	252	176.00	100112
57.00	3189	77.00	698	106.00	319	177.00	6731
60.00	977	78.00	252	116.00	206		

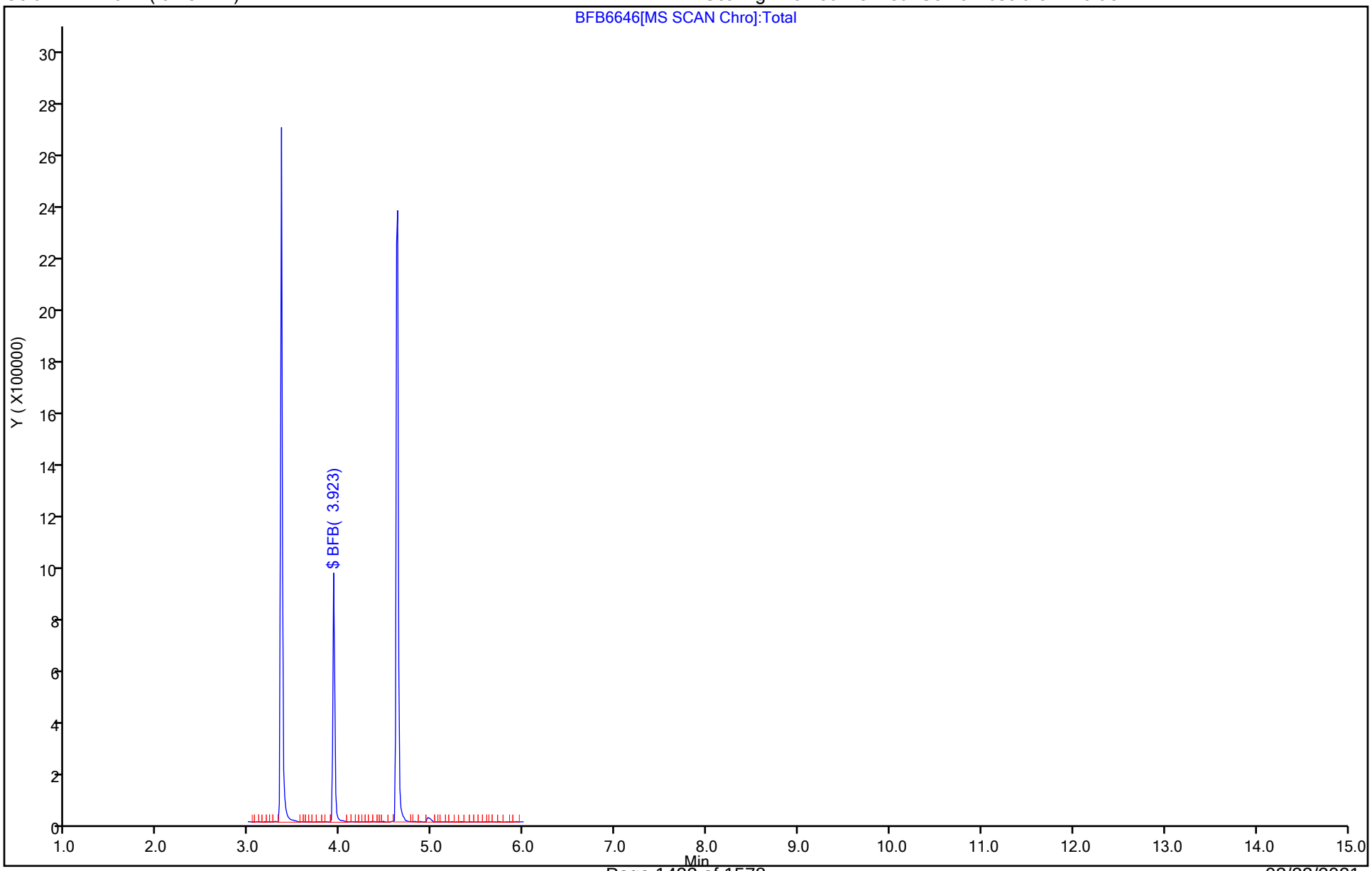
Report Date: 16-Mar-2021 11:18:14 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\BFB6646.D

Injection Date:	16-Mar-2021 10:14:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	74
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Canton

Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\bfb037.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	25-Jul-2018 11:28:13	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	240-0078311-001				
Operator ID:	001904	Instrument ID:	A3UX19		
Method:	\\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\8260_19.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	25-Jul-2018 16:32:06	Calib Date:	25-Jul-2018 15:15:13		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900807.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK026				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	4.686	4.686	0.000	0	1106546	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

vmbfb_00020 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\bfb037.d

Injection Date: 25-Jul-2018 11:28:13 Instrument ID: A3UX19

Lims ID: BFB

Client ID:

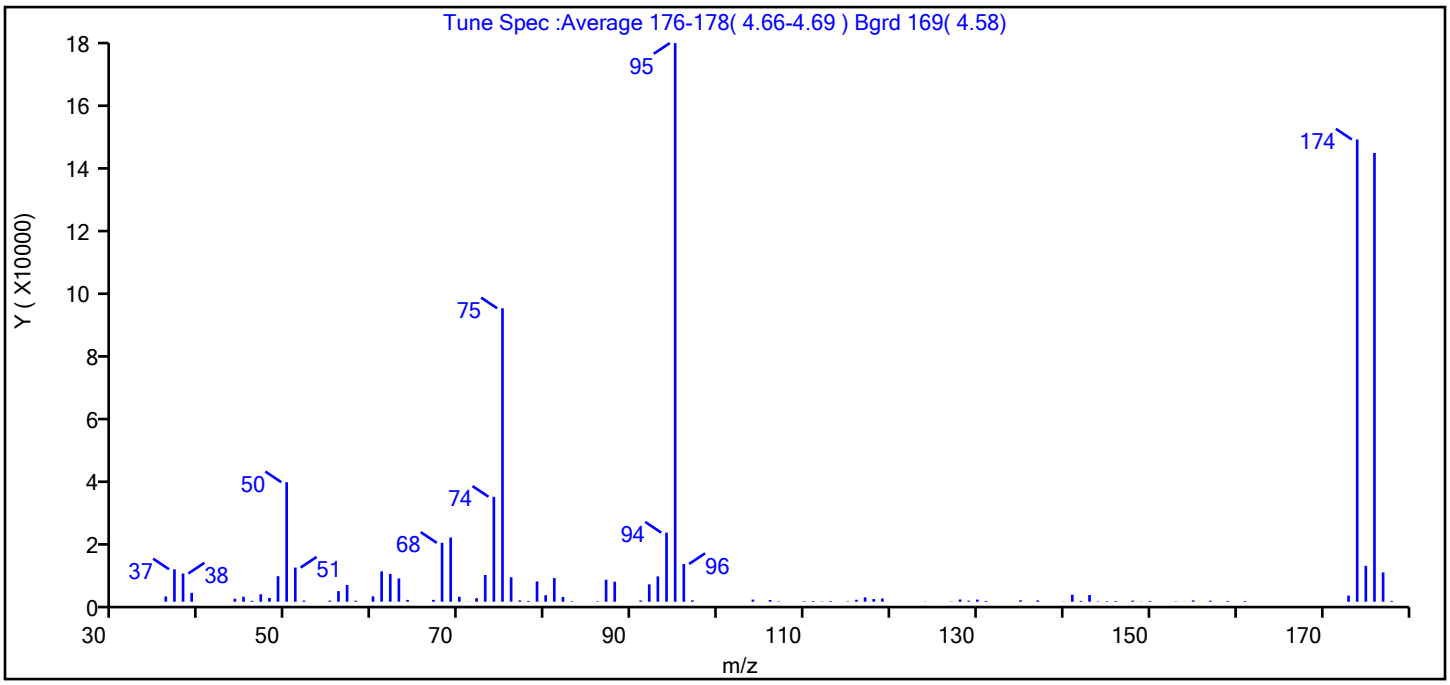
Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 1

Injection Vol: 5.0 mL Dil. Factor: 1.0000

Method: 8260_19 Limit Group: MSV 8260C ICAL

Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.4
75	30 to 60% of m/z 95	52.5
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	1.1 (1.3)
174	50 to 120% of m/z 95	82.7
175	5 to 9% of m/z 174	6.4 (7.8)
176	Greater than 95% but less than 101% of m/z 174	80.3 (97.1)
177	5 to 9% of m/z 176	5.2 (6.5)

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\bfb037.d\8260_19.rslt\spectra.d

Injection Date: 25-Jul-2018 11:28:13

Spectrum: Tune Spec :Average 176-178(4.66-4.69) Bgrd 169(4.58)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1628	67.00	581	94.00	21384	137.00	409
37.00	10027	68.00	18224	95.00	172800	140.00	80
38.00	8737	69.00	19856	96.00	11689	141.00	2163
39.00	2738	70.00	1521	97.00	441	142.00	263
43.00	20	71.00	65	104.00	670	143.00	2064
44.00	922	72.00	1099	106.00	557	144.00	132
45.00	1551	73.00	8295	107.00	144	145.00	176
46.00	292	74.00	32464	110.00	165	146.00	215
47.00	2293	75.00	90760	111.00	202	148.00	348
48.00	1156	76.00	7539	112.00	94	149.00	57
49.00	7894	77.00	416	113.00	196	150.00	232
50.00	36968	78.00	262	115.00	145	153.00	106
51.00	10570	79.00	6264	116.00	614	154.00	54
52.00	361	80.00	2025	117.00	1332	155.00	412
55.00	352	81.00	7320	118.00	827	157.00	327
56.00	3282	82.00	1495	119.00	1001	159.00	239
57.00	5195	83.00	170	124.00	70	161.00	201
58.00	322	86.00	159	127.00	96	173.00	1900
60.00	1660	87.00	6806	128.00	700	174.00	142976
61.00	9391	88.00	6205	129.00	329	175.00	11113
62.00	8617	91.00	385	130.00	667	176.00	138816
63.00	7197	92.00	5382	131.00	228	177.00	9062
64.00	572	93.00	7843	135.00	442	178.00	262

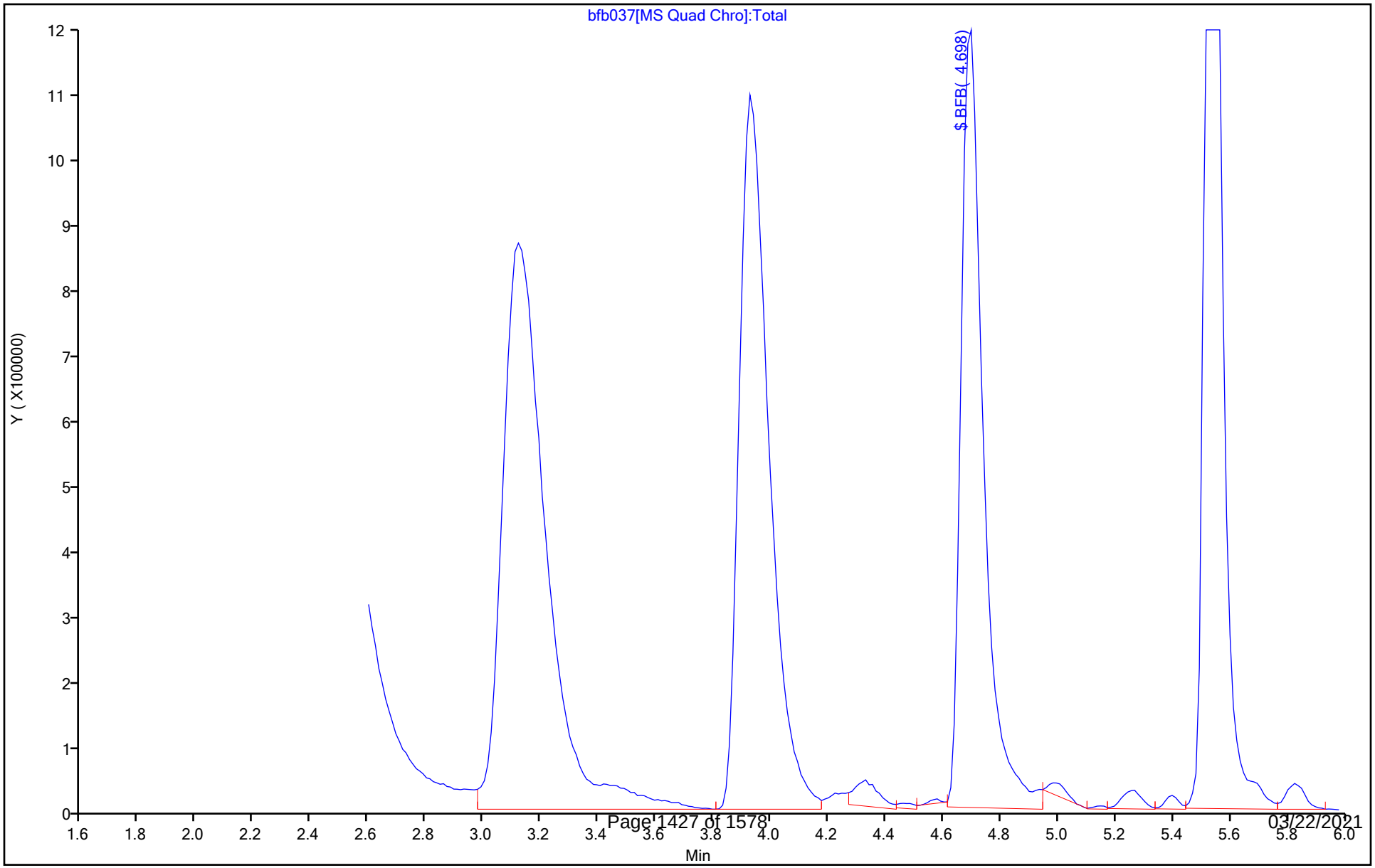
Report Date: 25-Jul-2018 16:32:07 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\bfb037.d

Injection Date:	25-Jul-2018 11:28:13	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton

Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\bfb058.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	27-Aug-2018 16:23:35	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	240-0079307-001				
Operator ID:	001904	Instrument ID:	A3UX19		
Method:	\\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\8260_19.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	27-Aug-2018 20:00:43	Calib Date:	27-Aug-2018 19:23:28		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK010				
First Level Reviewer: laveyt		Date:	27-Aug-2018 19:59:46		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	4.698	4.698	0.000	0	1569511	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

vmbfb_00020 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\bfb058.d

Injection Date: 27-Aug-2018 16:23:35 Instrument ID: A3UX19

Lims ID: BFB

Client ID:

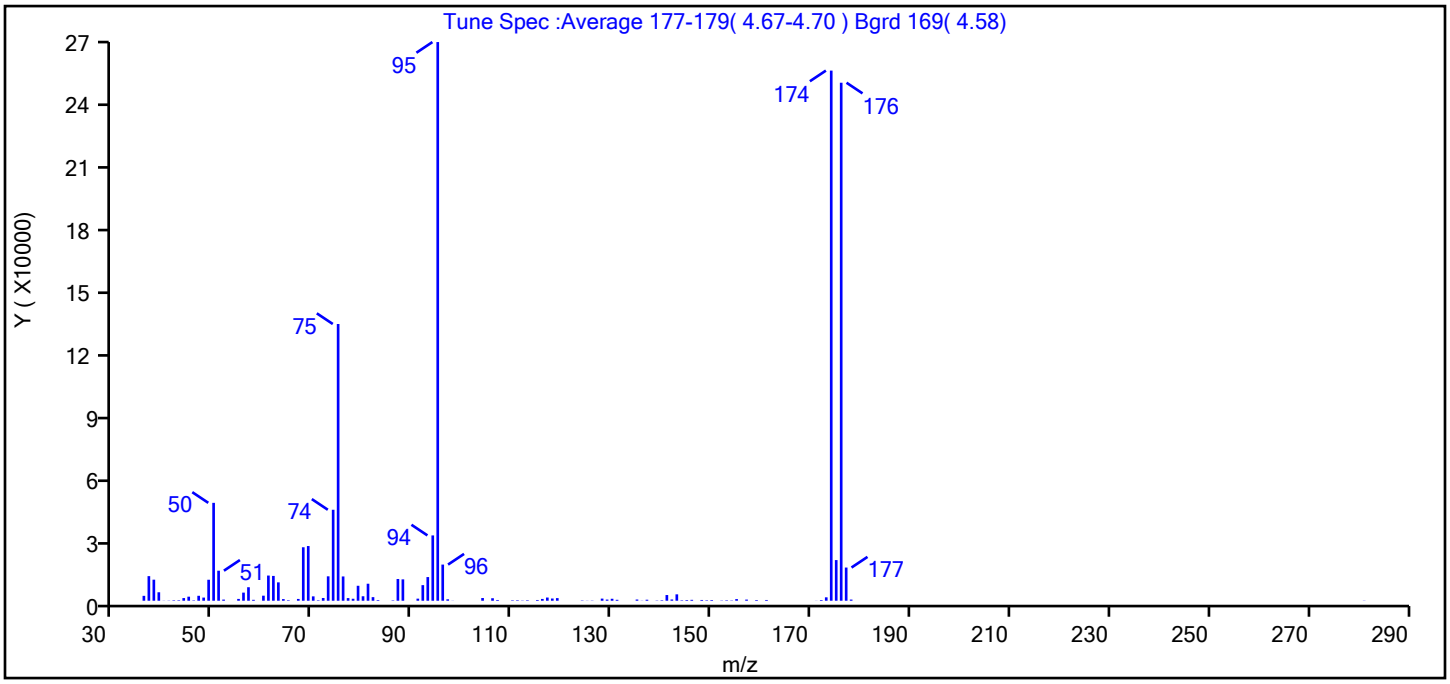
Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 1

Injection Vol: 5.0 mL Dil. Factor: 1.0000

Method: 8260_19 Limit Group: MSV 8260C ICAL

Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.5
75	30 to 60% of m/z 95	49.5
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.6 (0.6)
174	50 to 120% of m/z 95	94.9
175	5 to 9% of m/z 174	7.3 (7.7)
176	Greater than 95% but less than 101% of m/z 174	92.7 (97.7)
177	5 to 9% of m/z 176	5.9 (6.4)

Report Date: 27-Aug-2018 20:00:44 Chrom Revision: 2.3 19-Jul-2018 15:14:50

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\bfb058.d\8260_19.rslt\spectra.d

Injection Date: 27-Aug-2018 16:23:35

Spectrum: Tune Spec :Average 177-179(4.67-4.70) Bgrd 169(4.58)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 104

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2349	65.00	256	96.00	17360	140.00	251
37.00	11809	67.00	862	97.00	688	141.00	2734
38.00	10107	68.00	25672	98.00	58	142.00	600
39.00	4064	69.00	26264	104.00	1300	143.00	3067
40.00	66	70.00	2099	106.00	1203	144.00	221
41.00	100	71.00	235	107.00	359	145.00	322
42.00	232	72.00	1321	110.00	224	146.00	434
43.00	243	73.00	11723	111.00	256	148.00	370
44.00	1279	74.00	43680	112.00	119	149.00	227
45.00	1945	75.00	132864	113.00	246	150.00	326
46.00	198	76.00	11659	115.00	360	152.00	127
47.00	2373	77.00	1269	116.00	866	153.00	224
48.00	1513	78.00	954	117.00	1530	154.00	142
49.00	10079	79.00	7185	118.00	1063	155.00	786
50.00	47000	80.00	2148	119.00	1259	157.00	556
51.00	14416	81.00	8168	124.00	158	159.00	325
52.00	549	82.00	1723	125.00	69	161.00	362
55.00	872	83.00	325	126.00	112	171.00	51
56.00	3900	86.00	204	128.00	1021	172.00	331
57.00	6486	87.00	10430	129.00	555	173.00	1639
58.00	440	88.00	10260	130.00	946	174.00	254528
60.00	2424	91.00	1000	131.00	447	175.00	19520
61.00	12091	92.00	7487	135.00	583	176.00	248704
62.00	11912	93.00	11359	136.00	73	177.00	15935
63.00	8822	94.00	31360	137.00	488	178.00	556
64.00	782	95.00	268224	139.00	133	281.00	85

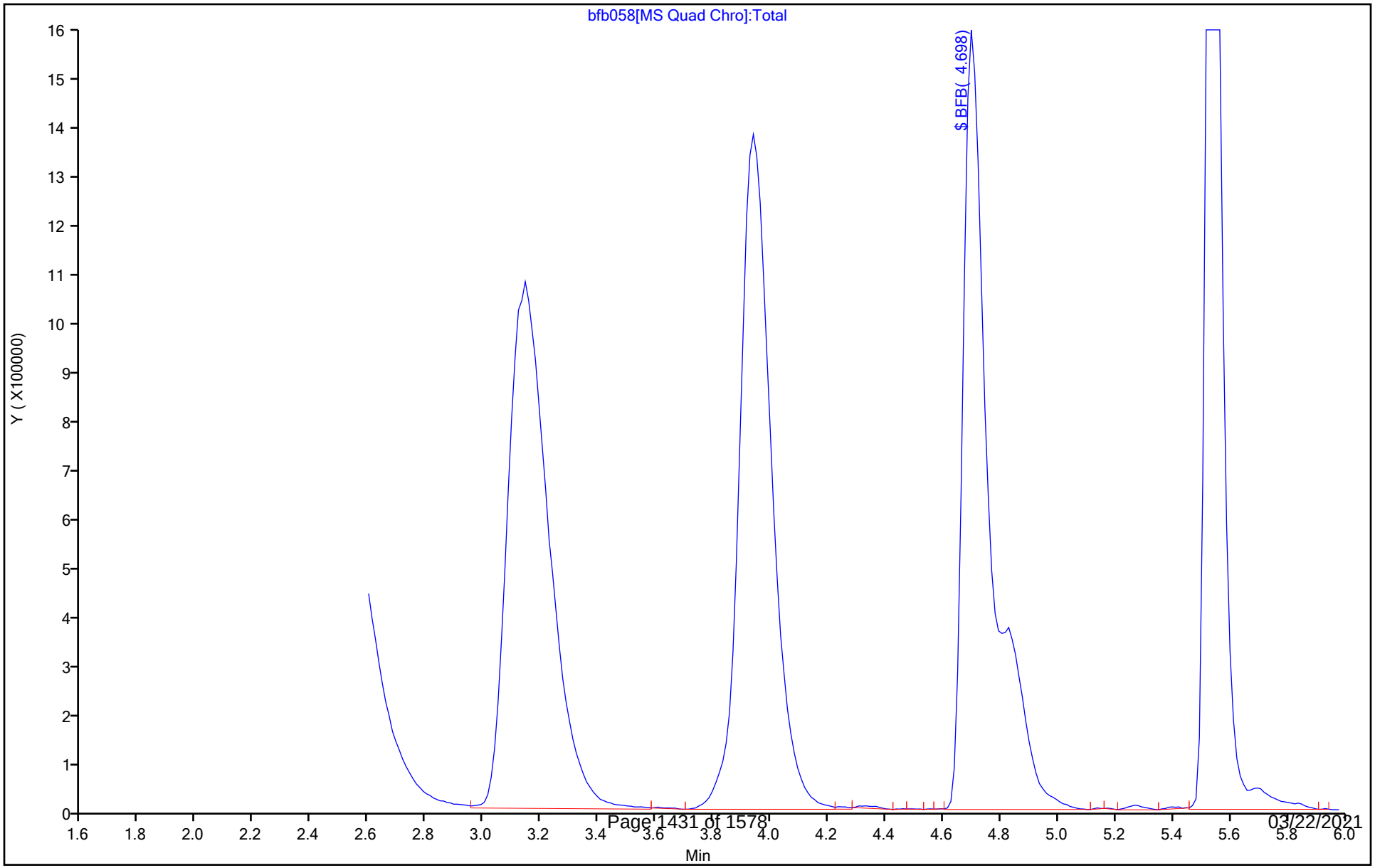
Report Date: 27-Aug-2018 20:00:44 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\bfb058.d

Injection Date:	27-Aug-2018 16:23:35	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\bfb766.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	15-Mar-2021 18:13:50	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107293-002				
Operator ID:	001904	Instrument ID:	A3UX19		
Method:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	15-Mar-2021 18:32:15	Calib Date:	09-Jun-2020 21:22:13		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1649				
First Level Reviewer: laveyt		Date:	15-Mar-2021 18:32:15		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	4.525	4.525	0.000	0	2572467	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

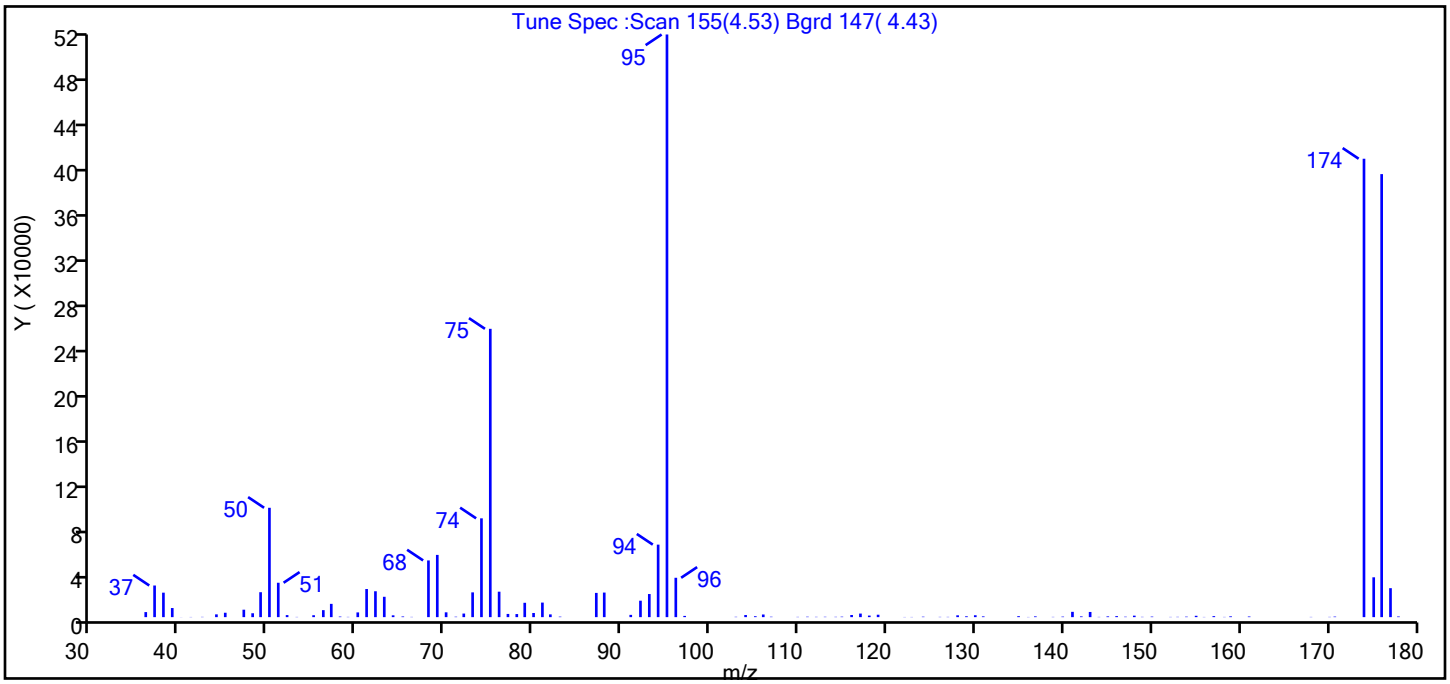
vmbfb_00026 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File:	\\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\bfb766.d				
Injection Date:	15-Mar-2021 18:13:50	Instrument ID:	A3UX19		
Lims ID:	BFB				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.8
75	30 to 60% of m/z 95	49.5
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	78.7
175	5 to 9% of m/z 174	6.8 (8.7)
176	Greater than 95% but less than 101% of m/z 174	76.0 (96.6)
177	5 to 9% of m/z 176	5.0 (6.5)

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\bfb766.d\8260_19.rslt\spectra.d
Injection Date: 15-Mar-2021 18:13:50
Spectrum: Tune Spec :Scan 155(4.53) Bgrd 147(4.43)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4462	68.00	50064	106.00	2340	143.00	4575
37.00	27928	69.00	54944	107.00	363	144.00	218
38.00	21608	70.00	4262	110.00	230	145.00	665
39.00	8037	71.00	378	111.00	383	146.00	902
40.00	66	72.00	3169	112.00	268	147.00	389
41.00	161	73.00	21864	113.00	319	148.00	1317
42.00	231	74.00	87224	114.00	280	149.00	253
44.00	2455	75.00	254528	115.00	422	150.00	481
45.00	3881	76.00	22472	116.00	1883	152.00	204
47.00	6571	77.00	2834	117.00	3154	153.00	259
48.00	3438	78.00	2719	118.00	1387	154.00	436
49.00	22016	79.00	12670	119.00	2137	155.00	1194
50.00	96544	80.00	3663	122.00	153	156.00	174
51.00	30360	81.00	12853	123.00	168	157.00	886
52.00	1809	82.00	2438	124.00	399	158.00	193
53.00	197	83.00	428	126.00	237	159.00	694
55.00	1689	87.00	21400	127.00	229	161.00	570
56.00	6180	88.00	21696	128.00	1612	168.00	199
57.00	11721	91.00	2012	129.00	754	170.00	226
58.00	501	92.00	14512	130.00	1666	171.00	476
59.00	219	93.00	20400	131.00	664	174.00	404672
60.00	4180	94.00	64016	135.00	837	175.00	35176
61.00	24824	95.00	514368	136.00	164	176.00	391104
62.00	22848	96.00	34752	137.00	671	177.00	25576
63.00	17968	97.00	1093	139.00	224	178.00	570
64.00	1606	103.00	298	140.00	465		
65.00	587	104.00	1860	141.00	4688		
66.00	215	105.00	804	142.00	651		

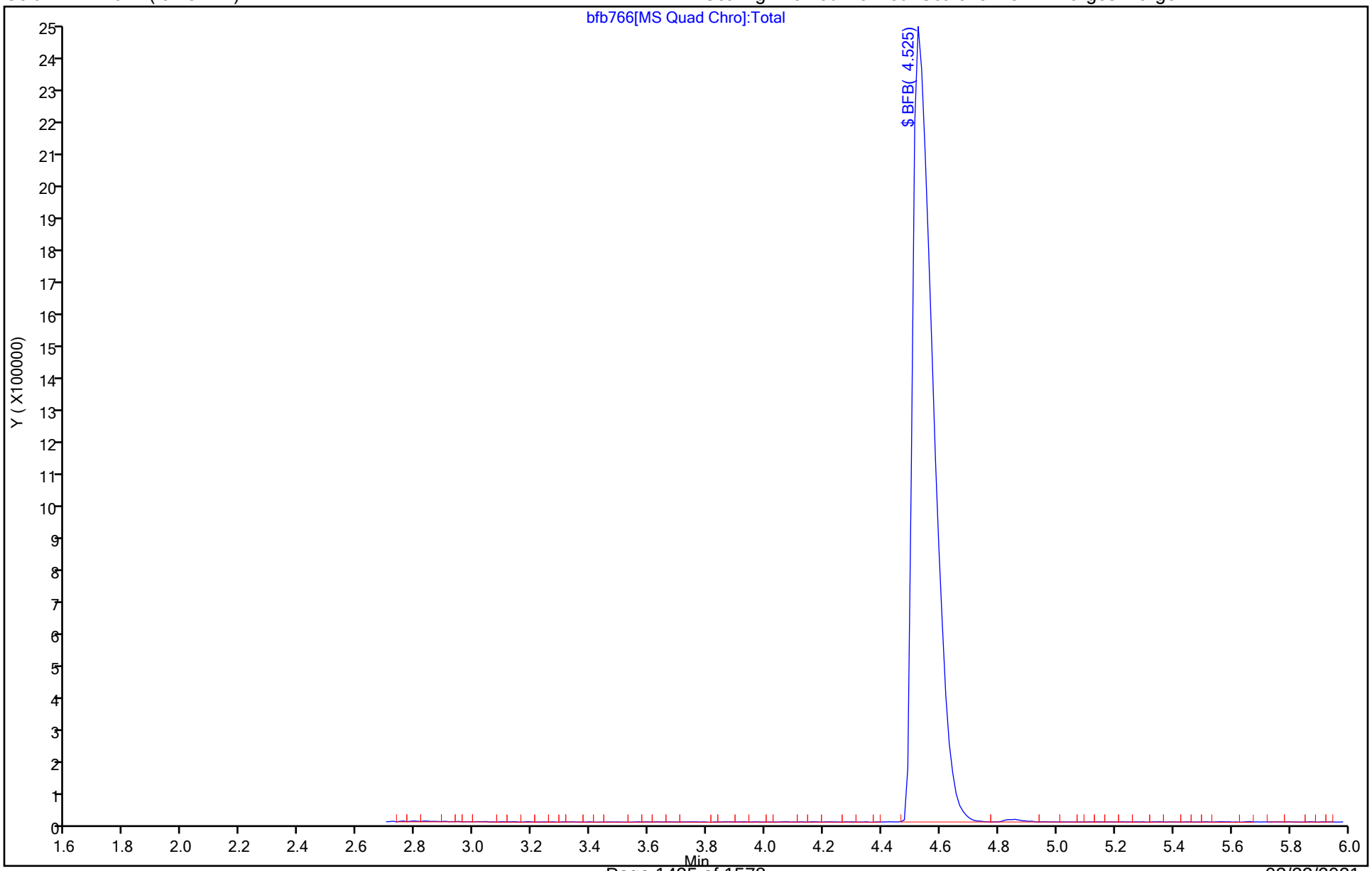
Report Date: 15-Mar-2021 18:32:16 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\bfb766.d

Injection Date:	15-Mar-2021 18:13:50	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	43
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\BFB1164.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 07-Jan-2021 11:58:30 ALS Bottle#: 13 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0105494-002
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 07-Jan-2021 13:41:47 Calib Date: 29-Jun-2020 15:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20200629-99598.b\UX988371.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1622

First Level Reviewer: bosworthh Date: 07-Jan-2021 13:41:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.926	3.926	0.000	0	510711	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

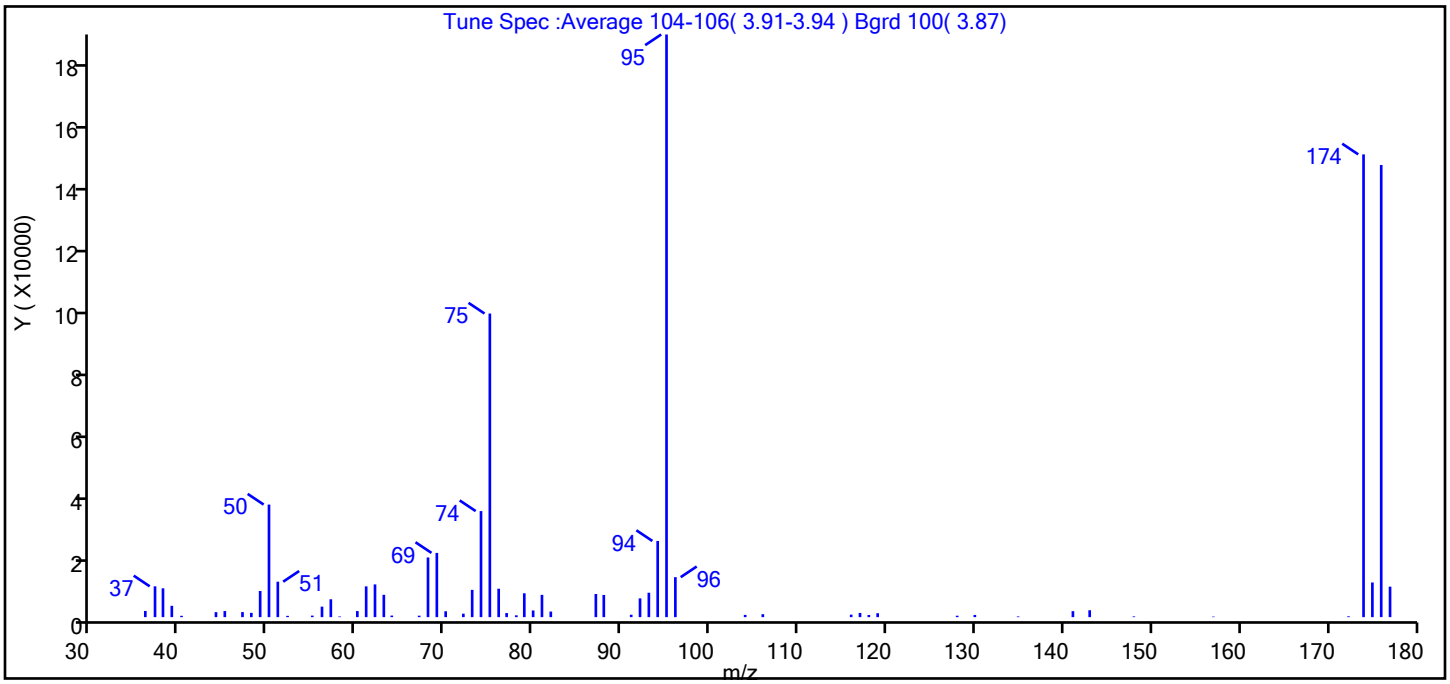
vmbfb_00026 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\BFB1164.D
Injection Date: 07-Jan-2021 11:58:30 Instrument ID: A3UX9
Lims ID: BFB
Client ID:
Operator ID: 001765 ALS Bottle#: 13 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_9 Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.3
75	30 to 60% of m/z 95	52.1
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	79.4
175	5 to 9% of m/z 174	5.9 (7.5)
176	Greater than 95% but less than 101% of m/z 174	77.6 (97.7)
177	5 to 9% of m/z 176	5.2 (6.7)

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\BFB1164.D\8260_9.rslt\spectra.d
Injection Date: 07-Jan-2021 11:58:30
Spectrum: Tune Spec :Average 104-106(3.91-3.94) Bgrd 100(3.87)
Base Peak: 95.05
Minimum % Base Peak: 0
Number of Points: 63

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1976	58.00	201	78.00	586	117.00	1346
37.00	9856	60.00	1943	79.00	7628	118.00	688
38.00	9218	61.00	9840	80.00	2131	119.00	1251
39.00	3622	62.00	10467	81.00	7127	128.00	456
40.00	426	63.00	7144	82.00	1788	130.00	700
44.00	1604	64.00	501	87.00	7396	135.00	221
45.00	1950	67.00	466	88.00	7105	141.00	1916
47.00	1622	68.00	19080	91.00	772	143.00	2206
48.00	1371	69.00	20536	92.00	6006	148.00	231
49.00	8362	70.00	1879	93.00	7806	157.00	167
50.00	35992	72.00	1107	94.00	24360	172.00	259
51.00	11331	73.00	8723	95.00	186304	174.00	147968
52.00	416	74.00	33912	96.00	12782	175.00	11081
55.00	489	75.00	97080	104.00	720	176.00	144576
56.00	3358	76.00	9090	106.00	948	177.00	9745
57.00	5719	77.00	1312	116.00	795		

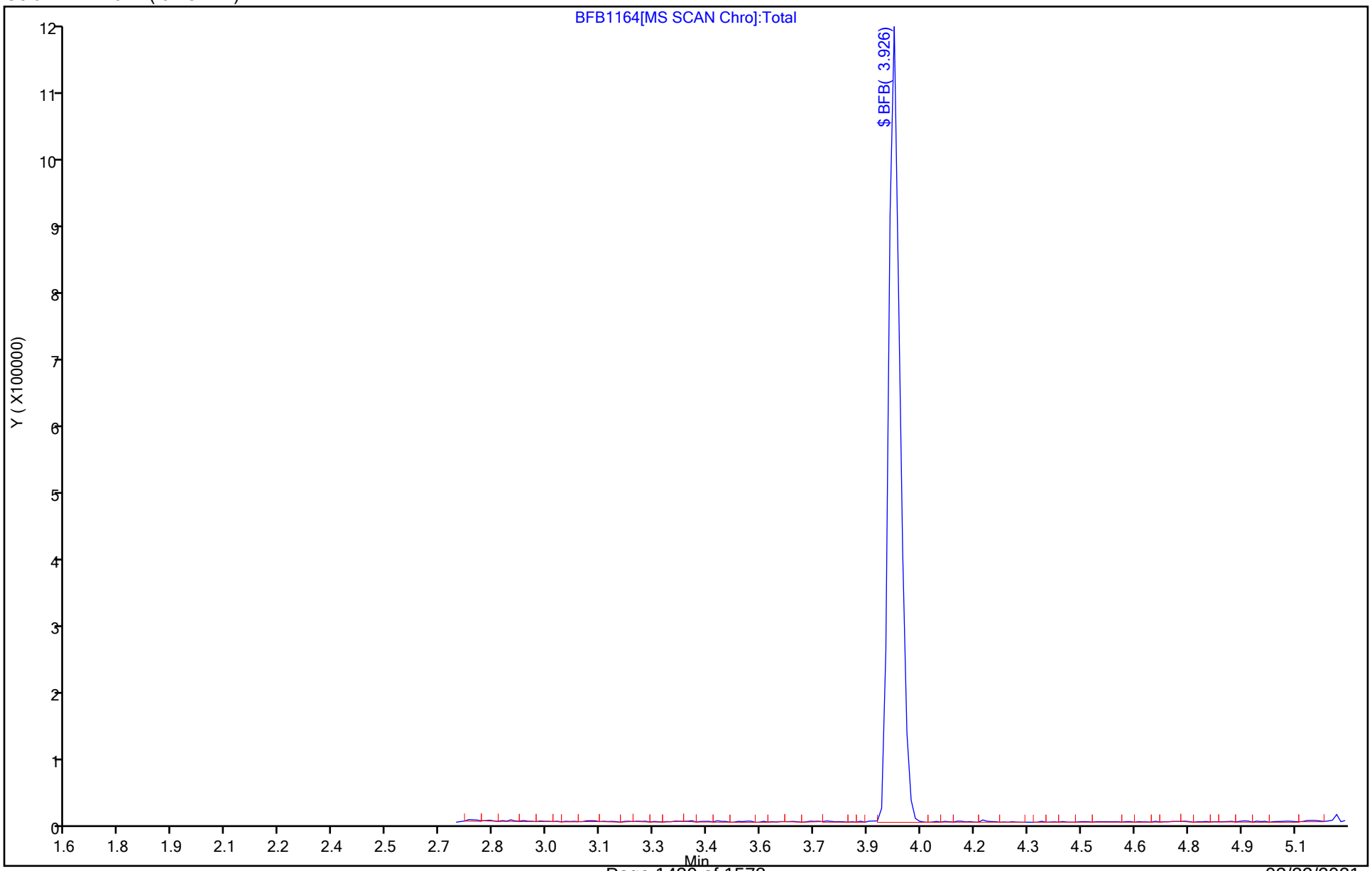
Report Date: 07-Jan-2021 13:41:48 Chrom Revision: 2.3 09-Dec-2020 16:22:14

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\BFB1164.D

Injection Date:	07-Jan-2021 11:58:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File:	\\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\BFB1220.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	17-Mar-2021 07:33:30	ALS Bottle#:	46	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	240-0107352-001				
Operator ID:	001765	Instrument ID:	A3UX9		
Method:	\\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	17-Mar-2021 10:40:26	Calib Date:	07-Jan-2021 18:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1658				
First Level Reviewer: bosworthh		Date:	17-Mar-2021 10:40:26		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.925	3.925	0.000	0	963598	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

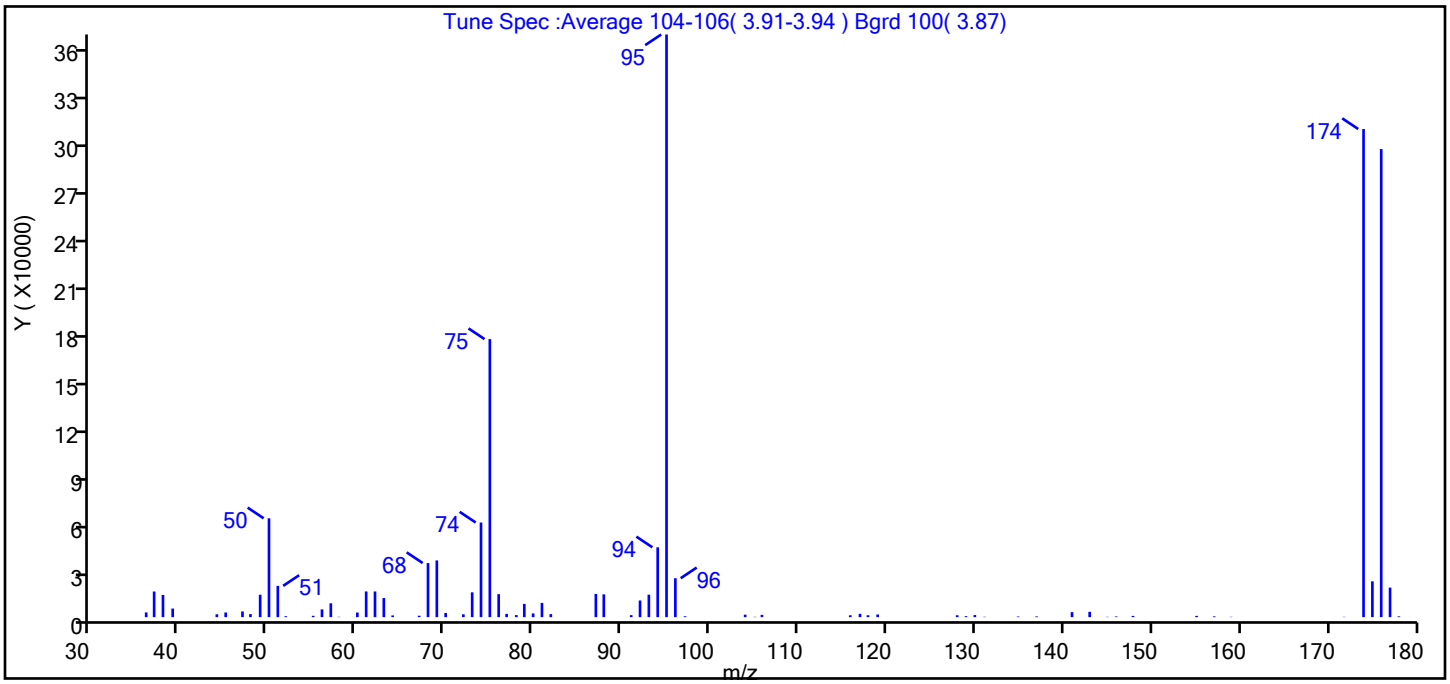
vmbfb_00026 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\BFB1220.D
Injection Date: 17-Mar-2021 07:33:30 Instrument ID: A3UX9
Lims ID: BFB
Client ID:
Operator ID: 001765 ALS Bottle#: 46 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_9 Limit Group: MSV 8260C ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.0
75	30 to 60% of m/z 95	47.7
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	83.8
175	5 to 9% of m/z 174	6.1 (7.3)
176	Greater than 95% but less than 101% of m/z 174	80.3 (95.9)
177	5 to 9% of m/z 176	5.1 (6.3)

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\BFB1220.D\8260_9.rslt\spectra.d
Injection Date: 17-Mar-2021 07:33:30
Spectrum: Tune Spec :Average 104-106(3.91-3.94) Bgrd 100(3.87)
Base Peak: 95.05
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2931	62.00	15983	87.00	14451	130.00	1292
37.00	15950	63.00	11886	88.00	14183	131.00	226
38.00	13816	64.00	1064	91.00	1232	135.00	389
39.00	5349	67.00	890	92.00	10374	137.00	455
44.00	1784	68.00	33664	93.00	13979	141.00	3118
45.00	2900	69.00	35296	94.00	43448	143.00	3321
47.00	3544	70.00	2614	95.00	362496	145.00	192
48.00	1900	72.00	1766	96.00	24216	146.00	429
49.00	13961	73.00	15429	97.00	544	148.00	769
50.00	61496	74.00	58880	104.00	1530	155.00	791
51.00	19456	75.00	172992	105.00	198	157.00	474
52.00	574	76.00	14298	106.00	1416	159.00	201
55.00	836	77.00	2028	116.00	1170	172.00	181
56.00	4826	78.00	1271	117.00	2080	174.00	303680
57.00	8616	79.00	8249	118.00	1193	175.00	22272
58.00	205	80.00	2311	119.00	1651	176.00	291200
60.00	2860	81.00	8869	128.00	1174	177.00	18384
61.00	15993	82.00	1899	129.00	611	178.00	486

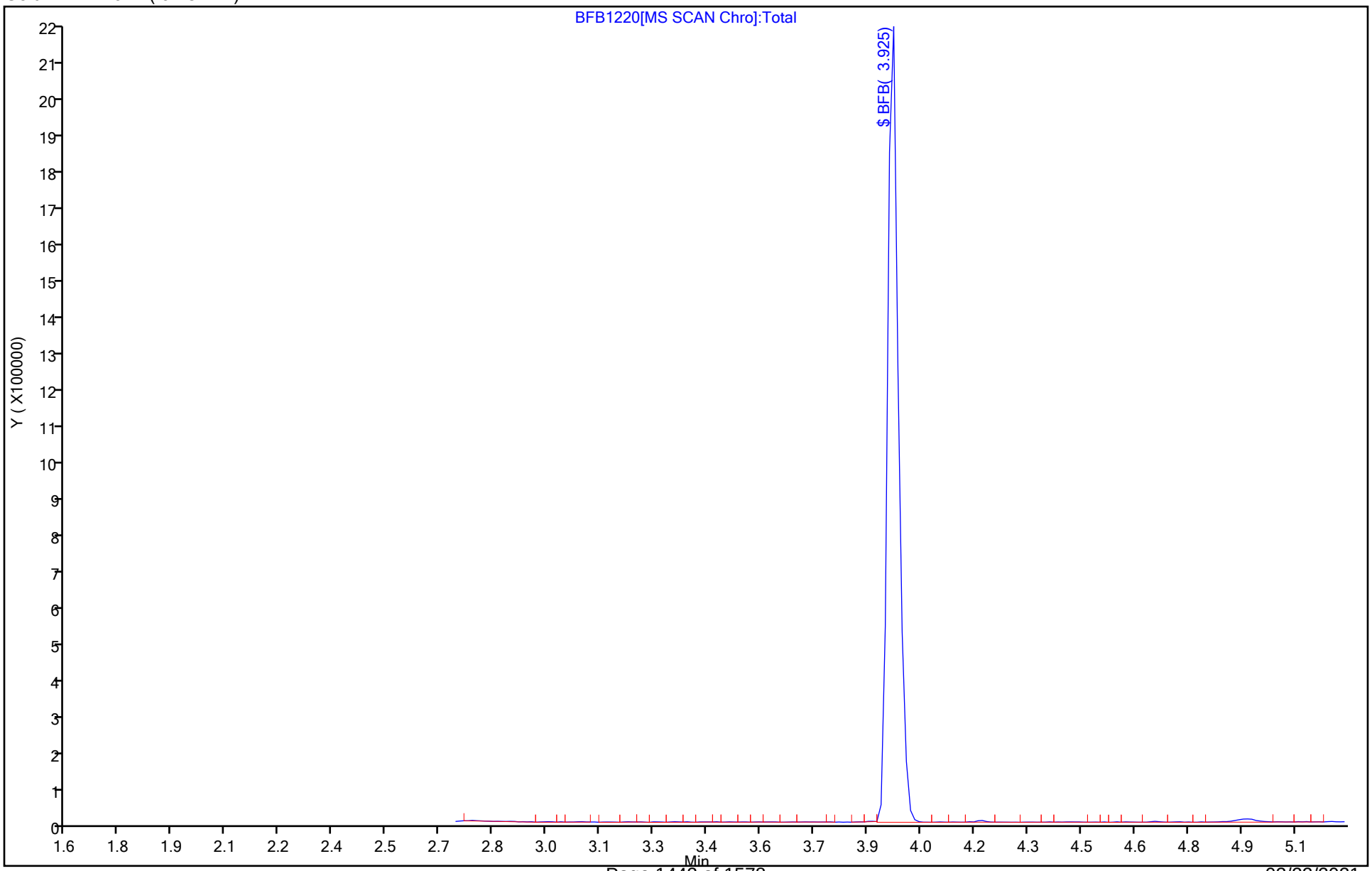
Report Date: 17-Mar-2021 10:40:26 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\BFB1220.D

Injection Date:	17-Mar-2021 07:33:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	46
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476369/8

Matrix: Water Lab File ID: UXM35613.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 11:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476369/8

Matrix: Water Lab File ID: UXM35613.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 11:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476369/8

Matrix: Water Lab File ID: UXM35613.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 11:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		47-134
1868-53-7	Dibromofluoromethane (Surr)	103		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476369/8

Matrix: Water Lab File ID: UXM35613.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 11:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35613.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 11-Mar-2021 11:11:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-008
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 11:38:28 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: bosworthh Date: 11-Mar-2021 11:38:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	1083755	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	83	904959	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	489217	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	304437	24.9	25.8	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	314506	24.9	24.6	
$ 6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	93	1074482	24.9	22.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.712	9.712	0.000	96	440709	24.9	25.1	
9 Dichlorodifluoromethane	85		1.719					ND	
10 Chloromethane	50		1.909					ND	
11 Vinyl chloride	62		2.027					ND	
12 Butadiene	54		2.063					ND	
13 Bromomethane	94	2.383	2.371	0.012	76	2253		0.1914	
14 Chloroethane	64		2.490					ND	
123 Ethylene oxide	44	2.596	2.632	-0.036	32	887		NC	
15 Dichlorofluoromethane	67		2.715					ND	
16 Trichlorofluoromethane	101		2.751					ND	
17 Ethyl ether	59		3.023					ND	
18 Acrolein	56		3.166					ND	
120 Propene oxide	58		3.203					ND	
19 1,1-Dichloroethene	96		3.261					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272					ND	
21 Acetone	58	3.308	3.296	0.012	69	1177		1.22	
23 Iodomethane	142		3.403					ND	U
24 Carbon disulfide	76		3.474					ND	
25 Acetonitrile	41		3.569					ND	
27 Methyl acetate	43		3.593					ND	
26 3-Chloro-1-propene	41		3.604					ND	
22 Methylal	45		3.629					ND	
28 Methylene Chloride	84		3.735					ND	
29 2-Methyl-2-propanol	59		3.806					ND	
30 Acrylonitrile	53		3.948					ND	
31 Methyl tert-butyl ether	73		3.960					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.984					ND	
33 Hexane	57		4.221					ND	
35 Vinyl acetate	43		4.363					ND	
34 1,1-Dichloroethane	63		4.375					ND	
36 Isopropyl ether	87		4.387					ND	
37 2-Chloro-1,3-butadiene	53		4.434					ND	
38 Tert-butyl ethyl ether	59		4.707					ND	
40 2-Butanone (MEK)	72		4.850					ND	
43 Ethyl acetate	43		4.873					ND	
41 2,2-Dichloropropane	77		4.873					ND	
39 cis-1,2-Dichloroethene	96		4.873					ND	
42 Propionitrile	54		4.921					ND	
44 Methacrylonitrile	41		5.039					ND	
45 Chlorobromomethane	128		5.075					ND	
46 Tetrahydrofuran	42		5.087					ND	
47 Chloroform	83		5.158					ND	
48 1,1,1-Trichloroethane	97		5.312					ND	
49 Cyclohexane	56		5.371					ND	
51 Carbon tetrachloride	117		5.442					ND	
50 1,1-Dichloropropene	75		5.442					ND	
52 Isobutyl alcohol	41		5.490					ND	
54 Benzene	78		5.620					ND	
53 1,2-Dichloroethane	62		5.656					ND	
163 Isooctane	57		5.703					ND	
55 Tert-amyl methyl ether	73		5.703					ND	
56 n-Heptane	57		5.846					ND	
57 n-Butanol	56		6.059					ND	
58 Trichloroethene	130		6.178					ND	
59 Ethyl acrylate	55		6.225					ND	
60 Methylcyclohexane	83		6.379					ND	
61 1,2-Dichloropropane	63		6.403					ND	
62 Methyl methacrylate	41		6.427					ND	
64 1,4-Dioxane	88		6.450					ND	
63 Dibromomethane	93		6.486					ND	
65 Dichlorobromomethane	83		6.628					ND	
66 2-Nitropropane	41		6.818					ND	
67 2-Chloroethyl vinyl ether	63		6.854					ND	
121 Epichlorohydrin	57		6.948					ND	
68 cis-1,3-Dichloropropene	75		7.008					ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126					ND	
70 Toluene	91		7.316					ND	
71 trans-1,3-Dichloropropene	75		7.506					ND	
72 Ethyl methacrylate	69		7.541					ND	
73 1,1,2-Trichloroethane	97		7.696					ND	
75 Tetrachloroethene	164		7.779					ND	
74 1,3-Dichloropropane	76		7.850					ND	
76 2-Hexanone	43		7.873					ND	
77 n-Butyl acetate	43		7.968					ND	
79 Tetrahydrothiophene	60		8.021					ND	
78 Chlorodibromomethane	129		8.039					ND	
80 Ethylene Dibromide	107		8.158					ND	
81 1-Chlorohexane	91		8.585					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
82 Chlorobenzene	112		8.621					ND	
83 1,1,1,2-Tetrachloroethane	131		8.692					ND	
84 Ethylbenzene	106		8.704					ND	
85 m-Xylene & p-Xylene	106		8.822					ND	
86 o-Xylene	106		9.190					ND	
87 Styrene	104		9.213					ND	
88 Bromoform	173		9.391					ND	
89 Isopropylbenzene	105		9.546					ND	
90 1,4-Dichlorobutane	55		9.628					ND	
91 Cyclohexanone	55		9.640					ND	U
92 1,1,2,2-Tetrachloroethane	83		9.842					ND	
93 Bromobenzene	156		9.866					ND	
94 trans-1,4-Dichloro-2-butene	53		9.878					ND	
95 1,2,3-Trichloropropane	110		9.901					ND	
96 N-Propylbenzene	120		9.949					ND	
97 2-Chlorotoluene	126		10.044					ND	
99 1,3,5-Trimethylbenzene	105		10.127					ND	
100 4-Chlorotoluene	126		10.162					ND	
98 3-Ethyltoluene	105		10.411					ND	
101 2-Ethyltoluene	105		10.411					ND	
102 tert-Butylbenzene	119		10.435					ND	
103 Pentachloroethane	167		10.470					ND	
104 1,2,4-Trimethylbenzene	105		10.494					ND	
105 sec-Butylbenzene	105		10.660					ND	
106 1,3-Dichlorobenzene	146		10.779					ND	
107 4-Isopropyltoluene	119		10.803					ND	
108 1,4-Dichlorobenzene	146		10.886					ND	
109 1,2,3-Trimethylbenzene	105		10.909					ND	
110 Benzyl chloride	126		10.992					ND	
111 n-Butylbenzene	91		11.218					ND	
112 1,2-Dichlorobenzene	146		11.241					ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036					ND	
114 1,3,5-Trichlorobenzene	180		12.214					ND	
115 1,2,4-Trichlorobenzene	180		12.854					ND	
116 Hexachlorobutadiene	225		13.008					ND	
117 Naphthalene	128		13.139					ND	
118 1,2,3-Trichlorobenzene	180		13.388					ND	
119 2-Methylnaphthalene	142		14.585					ND	
162 1-Methylnaphthalene	142		14.846					ND	
126 Butyl Methacrylate TIC	1		0.520					ND	
S 134 Trihalomethanes, Total	1		0.520					ND	
S 158 Total BTEX	1		0.520					ND	
S 131 1,2-Dichloroethene, Total	96		1.660					ND	
S 132 1,3-Dichloropropene, Total	75		7.280					ND	
S 133 Xylenes, Total	106		17.050					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

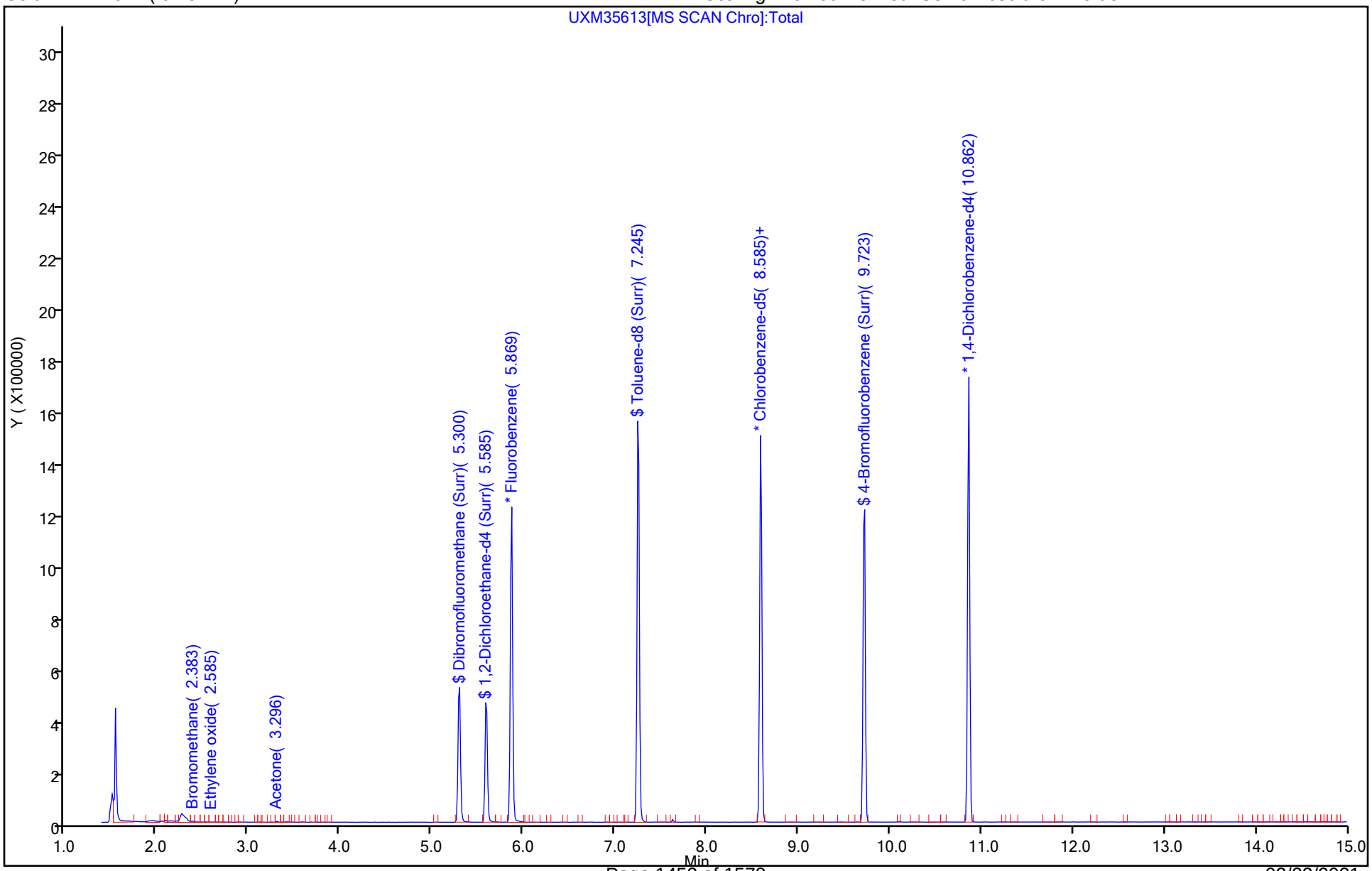
Report Date: 11-Mar-2021 11:38:30 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35613.D

Injection Date:	11-Mar-2021 11:11:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35613.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 11-Mar-2021 11:11:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-008
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 11:38:28 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1625

First Level Reviewer: bosworthh Date: 11-Mar-2021 11:38:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	25.8	103.42
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	24.6	98.70
$ 6 Toluene-d8 (Surr)	24.9	22.1	88.62
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.1	100.70

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476858/8

Matrix: Water Lab File ID: U1920964.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2021 20:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476858/8

Matrix: Water Lab File ID: U1920964.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2021 20:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476858/8

Matrix: Water Lab File ID: U1920964.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2021 20:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		47-134
1868-53-7	Dibromofluoromethane (Surr)	111		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		75-130
2037-26-5	Toluene-d8 (Surr)	103		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476858/8

Matrix: Water Lab File ID: U1920964.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2021 20:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920964.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Mar-2021 20:55:42 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-008
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Mar-2021 21:21:22 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: laveyt Date: 15-Mar-2021 21:21:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.666	5.666	0.000	99	849784	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	87	689429	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	96	337930	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.049	5.049	0.000	92	253110	20.0	22.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	97	312814	20.0	23.8	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	855229	20.0	20.7	
$ 7 4-Bromofluorobenzene (Surr)	95	9.686	9.686	0.000	86	319207	20.0	20.5	
9 Dichlorodifluoromethane	85		1.610					ND	
10 Chloromethane	50		1.811					ND	
11 Butadiene	54		1.906					ND	
12 Vinyl chloride	62		1.918					ND	
14 1-Chloro-1-fluoroethane TIC	47		2.215					ND	U
13 Bromomethane	94		2.238					ND	7
15 Chloroethane	64		2.310					ND	
16 Dichlorofluoromethane	67		2.511					ND	
17 Trichlorofluoromethane	101		2.594					ND	
18 Ethyl ether	59		2.819					ND	
19 Acrolein	56		2.938					ND	
20 1,1-Dichloroethene	61		3.033					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.069					ND	
22 Acetone	43	3.080	3.080	0.000	64	3301		0.99	
23 Methylal	45		3.092					ND	
24 Iodomethane	142		3.187					ND	
25 Carbon disulfide	76	3.258	3.246	0.012	94	3328		0.1042	
26 Acetonitrile	41		3.329					ND	
27 3-Chloro-1-propene	41		3.365					ND	
28 Methyl acetate	43		3.389					ND	7
29 Methylene Chloride	49		3.484					ND	
30 2-Methyl-2-propanol	59		3.578					ND	
31 Acrylonitrile	53		3.697					ND	U
32 trans-1,2-Dichloroethene	61		3.733					ND	
33 Methyl tert-butyl ether	73		3.744					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Hexane	57		3.993					ND	
35 1,1-Dichloroethane	63		4.112					ND	
36 Vinyl acetate	43		4.148					ND	
37 Isopropyl ether	87		4.183					ND	
38 2-Chloro-1,3-butadiene	53		4.207					ND	
39 Tert-butyl ethyl ether	59		4.503					ND	
41 cis-1,2-Dichloroethene	96		4.634					ND	7
42 2,2-Dichloropropane	77		4.634					ND	
40 2-Butanone (MEK)	72		4.634					ND	
43 Propionitrile	54		4.681					ND	
44 Ethyl acetate	43		4.693					ND	7
45 Methacrylonitrile	41		4.824					ND	
46 Chlorobromomethane	49		4.847					ND	7
47 Tetrahydrofuran	42		4.895					ND	7
48 Chloroform	83		4.907					ND	
49 1,1,1-Trichloroethane	97		5.084					ND	
50 Cyclohexane	84		5.144					ND	
51 1,1-Dichloropropene	75		5.239					ND	
52 Carbon tetrachloride	117		5.239					ND	
53 Isobutyl alcohol	41		5.298					ND	
54 Benzene	78		5.417					ND	
55 1,2-Dichloroethane	62		5.428					ND	7
56 Tert-amyl methyl ether	73		5.511					ND	
57 n-Heptane	57		5.642					ND	
58 n-Butanol	56		5.891					ND	
59 Trichloroethene	130		5.998					ND	
60 Ethyl acrylate	55		6.069					ND	
61 Methylcyclohexane	83		6.175					ND	
62 1,2-Dichloropropane	63		6.199					ND	
63 Methyl methacrylate	41		6.282					ND	
64 Dibromomethane	174		6.306					ND	
65 1,4-Dioxane	88		6.306					ND	
66 Dichlorobromomethane	83		6.436					ND	
67 2-Nitropropane	41		6.638					ND	
68 2-Chloroethyl vinyl ether	63		6.697					ND	
69 cis-1,3-Dichloropropene	75		6.851					ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.982					ND	
71 Toluene	91		7.172					ND	7
72 trans-1,3-Dichloropropene	75		7.361					ND	7
73 Ethyl methacrylate	69		7.444					ND	
74 1,1,2-Trichloroethane	97		7.539					ND	
75 Tetrachloroethene	166		7.705					ND	7
76 1,3-Dichloropropane	76		7.705					ND	
77 2-Hexanone	43		7.776					ND	
78 n-Butyl acetate	43		7.895					ND	7
80 Tetrahydrothiophene	60		7.931					ND	
79 Chlorodibromomethane	129		7.931					ND	
81 Ethylene Dibromide	107		8.049					ND	
82 1-Chlorohexane	91		8.500					ND	U
83 Chlorobenzene	112		8.535					ND	7
84 1,1,1,2-Tetrachloroethane	131		8.606					ND	
85 Ethylbenzene	106		8.630					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 m-Xylene & p-Xylene	106		8.749					ND	
87 o-Xylene	106		9.152					ND	
88 Styrene	104		9.164					ND	
89 Bromoform	173		9.354					ND	
90 Isopropylbenzene	105		9.531					ND	
91 Cyclohexanone	55		9.615					ND	
92 1,4-Dichlorobutane	55		9.626					ND	
93 1,1,2,2-Tetrachloroethane	83		9.816					ND	
95 Bromobenzene	156		9.852					ND	
96 1,2,3-Trichloropropane	110		9.875					ND	
97 trans-1,4-Dichloro-2-butene	53		9.875					ND	
98 N-Propylbenzene	120		9.947					ND	7
94 3-Ethyltoluene	105		10.041					ND	
100 2-Chlorotoluene	126		10.041					ND	
101 1,3,5-Trimethylbenzene	105		10.136					ND	7
102 4-Chlorotoluene	126		10.160					ND	
99 2-Ethyltoluene	105		10.350					ND	
103 tert-Butylbenzene	119		10.480					ND	7
104 Pentachloroethane	167		10.492					ND	
105 1,2,4-Trimethylbenzene	105		10.528					ND	7
106 sec-Butylbenzene	105		10.705					ND	
107 1,3-Dichlorobenzene	146		10.824					ND	7
108 4-Isopropyltoluene	119		10.860					ND	7
109 1,4-Dichlorobenzene	146		10.919					ND	7
110 1,2,3-Trimethylbenzene	105		10.966					ND	
111 Benzyl chloride	91		11.049					ND	
112 n-Butylbenzene	91		11.287					ND	7
113 1,2-Dichlorobenzene	146		11.310					ND	
114 1,2-Dibromo-3-Chloropropane	157		12.129					ND	
115 1,3,5-Trichlorobenzene	180		12.366					ND	
116 1,2,4-Trichlorobenzene	180		13.018					ND	7
117 Hexachlorobutadiene	225		13.208					ND	7
118 Naphthalene	128		13.279					ND	7
119 1,2,3-Trichlorobenzene	180		13.540					ND	7
120 2-Methylnaphthalene	142		14.631					ND	
122 Ethylene oxide	1		-0.010					ND	
123 Propene oxide	1		-0.010					ND	
121 Epichlorohydrin	1		-0.010					ND	
S 125 Trihalomethanes, Total	1		-0.010					ND	
S 124 Total BTEX	1		-0.010					ND	
S 126 1,2-Dichloroethene, Total	96		1.130					ND	
S 127 1,3-Dichloropropene, Total	75		6.750					ND	
S 128 Xylenes, Total	106		16.520					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL	Run Reagent

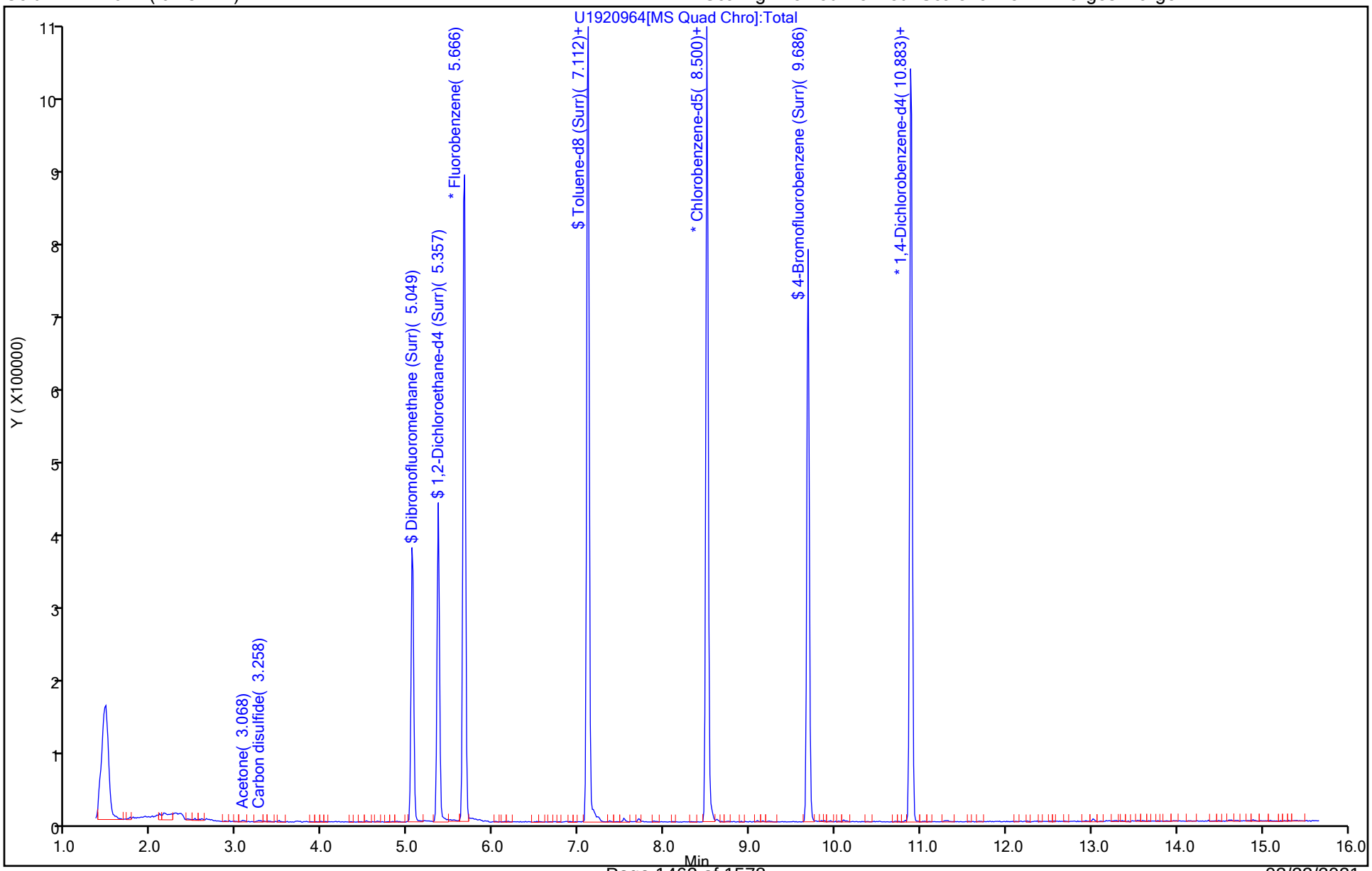
Report Date: 15-Mar-2021 21:21:23 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920964.d

Injection Date:	15-Mar-2021 20:55:42	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920964.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 15-Mar-2021 20:55:42 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-008
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Mar-2021 21:21:22 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: laveyt Date: 15-Mar-2021 21:21:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.1	110.64
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	23.8	119.05
$ 6 Toluene-d8 (Surr)	20.0	20.7	103.44
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.5	102.60

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476975/8

Matrix: Water Lab File ID: UXM35686.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 12:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476975/8

Matrix: Water Lab File ID: UXM35686.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 12:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476975/8

Matrix: Water Lab File ID: UXM35686.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 12:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	102		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-130
2037-26-5	Toluene-d8 (Surr)	93		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-476975/8

Matrix: Water Lab File ID: UXM35686.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 12:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35686.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 16-Mar-2021 12:42:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-008
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 13:23:12 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1613

First Level Reviewer: bosworthh Date: 16-Mar-2021 13:23:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1106161	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	85	897118	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	94	470923	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	307347	24.9	25.5	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.596	5.585	0.011	98	334109	24.9	25.6	
$ 6 Toluene-d8 (Surr)	98	7.257	7.245	0.012	93	1123307	24.9	23.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.711	9.711	0.000	93	468421	24.9	26.9	
9 Dichlorodifluoromethane	85		1.719					ND	
10 Chloromethane	50		1.909					ND	
11 Vinyl chloride	62		2.027					ND	
12 Butadiene	54		2.063					ND	
13 Bromomethane	94	2.383	2.371	0.012	81	3386		0.2818	
14 Chloroethane	64		2.490					ND	
123 Ethylene oxide	44	2.679	2.632	0.047	32	456		NC	
15 Dichlorofluoromethane	67		2.715					ND	
16 Trichlorofluoromethane	101		2.751					ND	
17 Ethyl ether	59		3.023					ND	
18 Acrolein	56		3.166					ND	
120 Propene oxide	58		3.203					ND	
19 1,1-Dichloroethene	96		3.260					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151		3.272					ND	
21 Acetone	58		3.296					ND	
23 Iodomethane	142	3.414	3.415	-0.001	79	2148		0.1228	
24 Carbon disulfide	76		3.474					ND	
25 Acetonitrile	41		3.569					ND	
27 Methyl acetate	43		3.592					ND	
26 3-Chloro-1-propene	41		3.604					ND	
22 Methylal	45		3.629					ND	
28 Methylene Chloride	84		3.735					ND	
29 2-Methyl-2-propanol	59		3.806					ND	
30 Acrylonitrile	53		3.948					ND	
31 Methyl tert-butyl ether	73		3.960					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.984					ND	
33 Hexane	57		4.221					ND	
35 Vinyl acetate	43		4.363					ND	
34 1,1-Dichloroethane	63		4.375					ND	
36 Isopropyl ether	87		4.387					ND	
37 2-Chloro-1,3-butadiene	53		4.434					ND	
38 Tert-butyl ethyl ether	59		4.707					ND	
40 2-Butanone (MEK)	72		4.849					ND	
41 2,2-Dichloropropane	77		4.873					ND	
39 cis-1,2-Dichloroethene	96		4.873					ND	
43 Ethyl acetate	43		4.873					ND	
42 Propionitrile	54		4.921					ND	
44 Methacrylonitrile	41		5.039					ND	
45 Chlorobromomethane	128		5.075					ND	
46 Tetrahydrofuran	42		5.087					ND	
47 Chloroform	83		5.158					ND	
48 1,1,1-Trichloroethane	97		5.312					ND	
49 Cyclohexane	56		5.371					ND	
51 Carbon tetrachloride	117		5.442					ND	
50 1,1-Dichloropropene	75		5.442					ND	
52 Isobutyl alcohol	41		5.502					ND	
54 Benzene	78		5.620					ND	
53 1,2-Dichloroethane	62		5.656					ND	
163 Isooctane	57		5.703					ND	
55 Tert-amyl methyl ether	73		5.703					ND	
56 n-Heptane	57		5.846					ND	
57 n-Butanol	56		6.059					ND	
58 Trichloroethene	130		6.178					ND	
59 Ethyl acrylate	55		6.225					ND	
60 Methylcyclohexane	83		6.379					ND	
61 1,2-Dichloropropane	63		6.403					ND	
62 Methyl methacrylate	41		6.427					ND	
64 1,4-Dioxane	88		6.450					ND	
63 Dibromomethane	93		6.486					ND	
65 Dichlorobromomethane	83		6.628					ND	
66 2-Nitropropane	41		6.818					ND	
67 2-Chloroethyl vinyl ether	63		6.854					ND	
121 Epichlorohydrin	57		6.948					ND	
68 cis-1,3-Dichloropropene	75		7.008					ND	
69 4-Methyl-2-pentanone (MIBK)	43		7.126					ND	
70 Toluene	91		7.316					ND	
71 trans-1,3-Dichloropropene	75		7.506					ND	
72 Ethyl methacrylate	69		7.541					ND	
73 1,1,2-Trichloroethane	97		7.696					ND	
75 Tetrachloroethene	164		7.779					ND	
74 1,3-Dichloropropane	76		7.850					ND	
76 2-Hexanone	43		7.873					ND	
77 n-Butyl acetate	43		7.968					ND	
79 Tetrahydrothiophene	60		8.021					ND	
78 Chlorodibromomethane	129		8.051					ND	
80 Ethylene Dibromide	107		8.158					ND	
81 1-Chlorohexane	91		8.585					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
82 Chlorobenzene	112		8.620					ND	
83 1,1,1,2-Tetrachloroethane	131		8.692					ND	
84 Ethylbenzene	106		8.703					ND	
85 m-Xylene & p-Xylene	106		8.822					ND	
86 o-Xylene	106		9.190					ND	
87 Styrene	104		9.213					ND	
88 Bromoform	173		9.391					ND	
89 Isopropylbenzene	105		9.545					ND	
90 1,4-Dichlorobutane	55		9.628					ND	
91 Cyclohexanone	55		9.640					ND	U
92 1,1,2,2-Tetrachloroethane	83		9.842					ND	
93 Bromobenzene	156		9.866					ND	
94 trans-1,4-Dichloro-2-butene	53		9.877					ND	
95 1,2,3-Trichloropropane	110		9.901					ND	
96 N-Propylbenzene	120		9.949					ND	
97 2-Chlorotoluene	126		10.043					ND	
99 1,3,5-Trimethylbenzene	105		10.127					ND	
100 4-Chlorotoluene	126		10.162					ND	
98 3-Ethyltoluene	105		10.411					ND	
101 2-Ethyltoluene	105		10.411					ND	
102 tert-Butylbenzene	119		10.435					ND	
103 Pentachloroethane	167		10.470					ND	
104 1,2,4-Trimethylbenzene	105		10.494					ND	
105 sec-Butylbenzene	105		10.660					ND	
106 1,3-Dichlorobenzene	146		10.791					ND	
107 4-Isopropyltoluene	119		10.802					ND	
108 1,4-Dichlorobenzene	146		10.885					ND	
109 1,2,3-Trimethylbenzene	105		10.909					ND	
110 Benzyl chloride	126		11.004					ND	
111 n-Butylbenzene	91		11.217					ND	
112 1,2-Dichlorobenzene	146		11.241					ND	
113 1,2-Dibromo-3-Chloropropane	157		12.036					ND	
114 1,3,5-Trichlorobenzene	180		12.214					ND	
115 1,2,4-Trichlorobenzene	180		12.854					ND	
116 Hexachlorobutadiene	225		13.008					ND	
117 Naphthalene	128		13.139					ND	
118 1,2,3-Trichlorobenzene	180		13.388					ND	
119 2-Methylnaphthalene	142		14.585					ND	
162 1-Methylnaphthalene	142		14.846					ND	
126 Butyl Methacrylate TIC	1		0.520					ND	
S 134 Trihalomethanes, Total	1		0.520					ND	
S 158 Total BTEX	1		0.520					ND	
S 131 1,2-Dichloroethene, Total	96		1.660					ND	
S 132 1,3-Dichloropropene, Total	75		7.280					ND	
S 133 Xylenes, Total	106		17.050					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags
U - Marked Undetected

Reagents:

vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

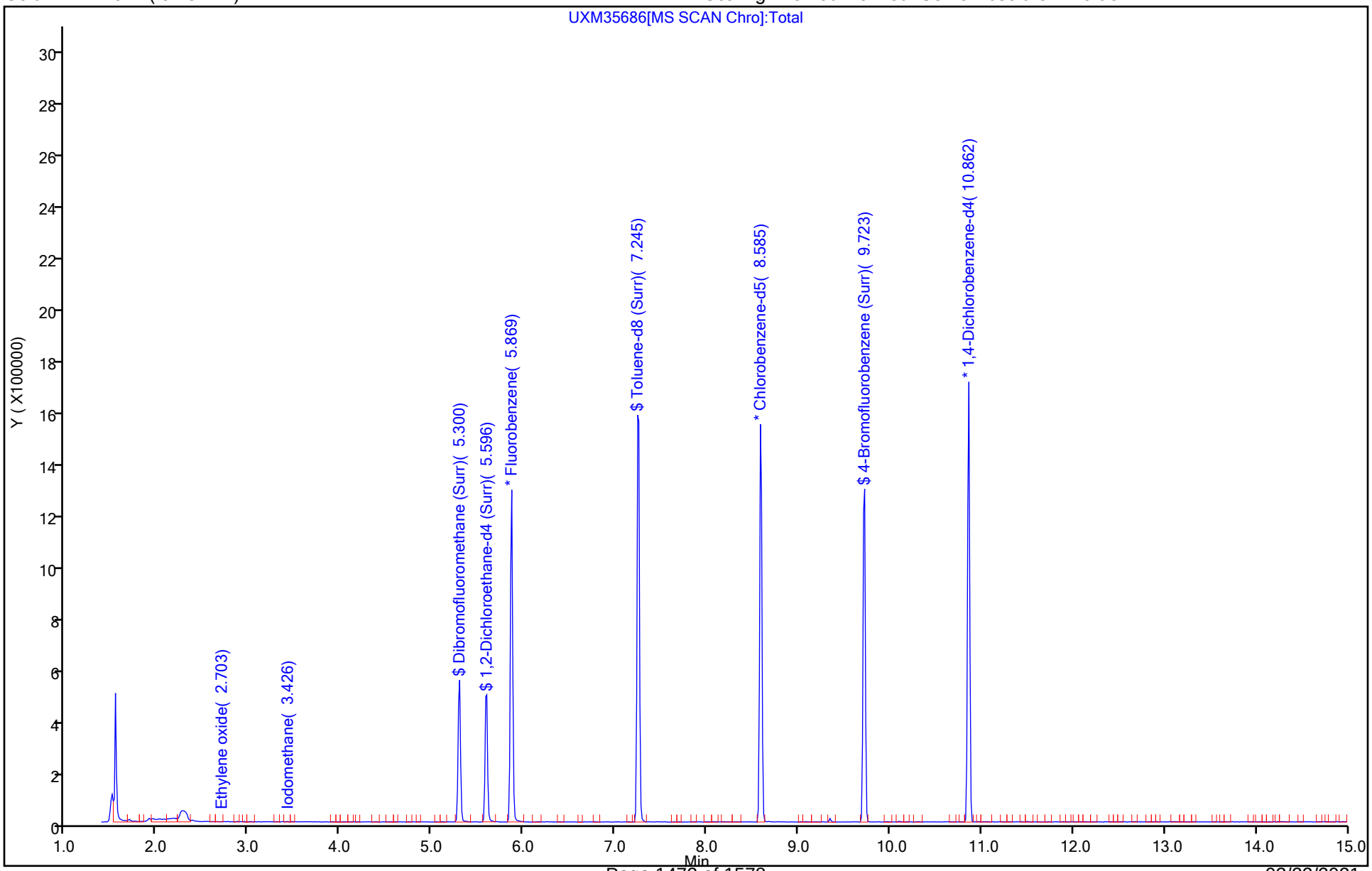
Report Date: 16-Mar-2021 13:23:15 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35686.D

Injection Date:	16-Mar-2021 12:42:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35686.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 16-Mar-2021 12:42:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-008
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 13:23:12 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1613

First Level Reviewer: bosworthh Date: 16-Mar-2021 13:23:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	25.5	102.29
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	25.6	102.73
$ 6 Toluene-d8 (Surr)	24.9	23.3	93.45
$ 7 4-Bromofluorobenzene (Surr)	24.9	26.9	107.97

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-477127/8

Matrix: Water Lab File ID: UX993998.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 09:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	10	U	10	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
78-93-3	2-Butanone	10	U	10	1.2
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.26
108-90-7	Chlorobenzene	1.0	U	1.0	0.14
75-00-3	Chloroethane	1.0	U	1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.91
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
74-95-3	Dibromomethane	1.0	U	1.0	0.090
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
108-20-3	Diisopropyl ether	10	U	10	0.17
100-41-4	Ethylbenzene	1.0	U	1.0	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-477127/8

Matrix: Water Lab File ID: UX993998.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 09:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
591-78-6	2-Hexanone	10	U	10	0.54
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
108-10-1	4-Methyl-2-pentanone	10	U	10	0.42
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
91-20-3	Naphthalene	1.0	U	1.0	0.32
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
95-47-6	o-Xylene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.10
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-65-0	tert-Butyl alcohol	40	U	40	1.7
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
127-18-4	Tetrachloroethene	1.0	U	1.0	0.15
108-88-3	Toluene	1.0	U	1.0	0.14
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-477127/8

Matrix: Water Lab File ID: UX993998.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 09:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	119		47-134
1868-53-7	Dibromofluoromethane (Surr)	93		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	99		69-122

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: MB 240-477127/8

Matrix: Water Lab File ID: UX993998.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 09:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX993998.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Mar-2021 09:50:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107352-008
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 17-Mar-2021 12:03:16 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 12:03:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.867	5.864	0.003	99	1469576	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.565	8.562	0.003	85	1196843	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.813	10.810	0.003	97	646042	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.274	0.002	93	317528	16.2	15.1	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.571	5.570	0.001	99	387431	16.2	14.8	
$ 6 Toluene-d8 (Surr)	98	7.252	7.250	0.002	92	1273476	16.2	16.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.677	9.676	0.001	89	536943	16.2	19.3	
9 Dichlorodifluoromethane	85		1.772					ND	
10 Chloromethane	50		1.985					ND	
11 Vinyl chloride	62		2.103					ND	
12 Butadiene	54		2.127					ND	
14 Ethylene oxide	43		2.386					ND	
13 Bromomethane	94		2.470					ND	
15 Chloroethane	64		2.564					ND	
16 Dichlorofluoromethane	67		2.754					ND	
17 Trichlorofluoromethane	101		2.825					ND	
18 Ethyl ether	59		3.073					ND	
19 Propene oxide	58		3.120					ND	
21 Acrolein	56		3.180					ND	
24 1,1-Dichloroethene	61		3.298					ND	
23 Acetone	58		3.333					ND	
22 112TCTFE	101		3.345					ND	
25 Iodomethane	142		3.487					ND	
20 Methylal	45		3.534					ND	
26 Carbon disulfide	76		3.535					ND	7
27 Acetonitrile	41		3.592					ND	
28 3-Chloro-1-propene	41		3.629					ND	
29 Methyl acetate	43		3.641					ND	
30 Methylene Chloride	49		3.736					ND	
31 2-Methyl-2-propanol	59		3.830					ND	
32 Acrylonitrile	53		3.949					ND	
33 Methyl tert-butyl ether	73		3.996					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 trans-1,2-Dichloroethene	61		3.996					ND	
35 Hexane	57		4.245					ND	
36 1,1-Dichloroethane	63		4.363					ND	
37 Vinyl acetate	43		4.398					ND	
38 Isopropyl ether	87		4.433					ND	
39 2-Chloro-1,3-butadiene	53		4.456					ND	
40 Tert-butyl ethyl ether	59		4.740					ND	
43 cis-1,2-Dichloroethene	96		4.872					ND	
41 2-Butanone (MEK)	72		4.872					ND	
42 2,2-Dichloropropane	77		4.884					ND	
44 Ethyl acetate	43		4.918					ND	
45 Propionitrile	54		4.918					ND	
46 Methacrylonitrile	41		5.060					ND	
47 Chlorobromomethane	49		5.073					ND	
48 Tetrahydrofuran	42		5.120					ND	
49 Chloroform	83		5.132					ND	
50 1,1,1-Trichloroethane	97		5.321					ND	
51 Cyclohexane	84		5.381					ND	
52 1,1-Dichloropropene	75		5.452					ND	
53 Carbon tetrachloride	117		5.463					ND	
54 Isobutyl alcohol	41		5.499					ND	
56 1,2-Dichloroethane	62		5.629					ND	
55 Benzene	78		5.641					ND	
163 Isooctane	57		5.710					ND	
57 Tert-amyl methyl ether	73		5.722					ND	
58 n-Heptane	71		5.842					ND	U
59 n-Butanol	56		6.065					ND	
60 Trichloroethene	130		6.185					ND	
61 Ethyl acrylate	55		6.243					ND	
62 Methylcyclohexane	83		6.363					ND	
63 1,2-Dichloropropane	63		6.375					ND	
64 Methyl methacrylate	41		6.444					ND	
65 1,4-Dioxane	88		6.481					ND	
66 Dibromomethane	174		6.481					ND	
67 Dichlorobromomethane	83		6.599					ND	
68 2-Nitropropane	41		6.787					ND	
69 2-Chloroethyl vinyl ether	63		6.848					ND	
70 Epichlorohydrin	57		6.907					ND	
71 cis-1,3-Dichloropropene	75		6.990					ND	
72 4-Methyl-2-pentanone (MIBK)	43		7.108					ND	
73 Toluene	91		7.309					ND	
74 trans-1,3-Dichloropropene	75		7.475					ND	
75 Ethyl methacrylate	69		7.546					ND	
76 1,1,2-Trichloroethane	97		7.652					ND	
77 1,3-Dichloropropane	76		7.806					ND	
78 Tetrachloroethene	166		7.806					ND	
80 2-Hexanone	43		7.854					ND	
79 Tetrahydrothiophene	60		7.955					ND	
81 n-Butyl acetate	43		7.971					ND	
82 Chlorodibromomethane	129		8.019					ND	
83 Ethylene Dibromide	107		8.138					ND	
84 1-Chlorohexane	91		8.550					ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Chlorobenzene	112		8.599					ND	
86 1,1,1,2-Tetrachloroethane	131		8.658					ND	
87 Ethylbenzene	106		8.682					ND	
88 m-Xylene & p-Xylene	106		8.800					ND	
89 o-Xylene	106		9.179					ND	
90 Styrene	104		9.179					ND	
91 Bromoform	173		9.368					ND	
92 Isopropylbenzene	105		9.522					ND	
93 Cyclohexanone	55		9.615					ND	
99 3-Ethyltoluene	105		9.768					ND	
94 1,1,2,2-Tetrachloroethane	83		9.794					ND	
95 Bromobenzene	156		9.842					ND	
96 trans-1,4-Dichloro-2-butene	53		9.842					ND	
97 1,2,3-Trichloropropane	110		9.842					ND	
98 N-Propylbenzene	120		9.924					ND	
100 2-Chlorotoluene	126		10.019					ND	
103 2-Ethyltoluene	105		10.051					ND	
101 1,3,5-Trimethylbenzene	105		10.090					ND	
102 4-Chlorotoluene	126		10.126					ND	
104 tert-Butylbenzene	119		10.421					ND	
105 Pentachloroethane	167		10.444					ND	
106 1,2,4-Trimethylbenzene	105		10.457					ND	
107 sec-Butylbenzene	134		10.634					ND	
108 1,3-Dichlorobenzene	146		10.753					ND	
109 4-Isopropyltoluene	119		10.764					ND	
110 1,4-Dichlorobenzene	146		10.835					ND	
111 1,2,3-Trimethylbenzene	105		10.881					ND	
112 Benzyl chloride	126		10.964					ND	
113 n-Butylbenzene	91		11.179					ND	
114 1,2-Dichlorobenzene	146		11.214					ND	
115 1,2-Dibromo-3-Chloropropane	157		11.971					ND	
116 1,3,5-Trichlorobenzene	180		12.195					ND	
117 1,2,4-Trichlorobenzene	180		12.823					ND	
118 Hexachlorobutadiene	225		13.001					ND	
119 Naphthalene	128		13.084					ND	7
120 1,2,3-Trichlorobenzene	180		13.356					ND	
121 2-Methylnaphthalene	142	14.493	14.502	-0.009	93	5642		0.1162	
162 1-Methylnaphthalene	142	14.777	14.786	-0.009	85	4315		0.0952	
123 1,4-Dichlorobutane	1		0.700					ND	
122 Butyl Methacrylate TIC	1		0.700					ND	
126 Isobutylene TIC	1		0.700					ND	
S 158 Total BTEX	1		0.400					ND	
S 128 1,2-Dichloroethene, Total	96		1.840					ND	
S 129 1,3-Dichloropropene, Total	75		7.460					ND	
S 130 Trihalomethanes, Total	83		16.700					ND	
S 131 Xylenes, Total	106		17.230					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

vm100is_stk_a_00006	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm100ss_stk_00033	Amount Added:	0.81	Units: uL	Run Reagent

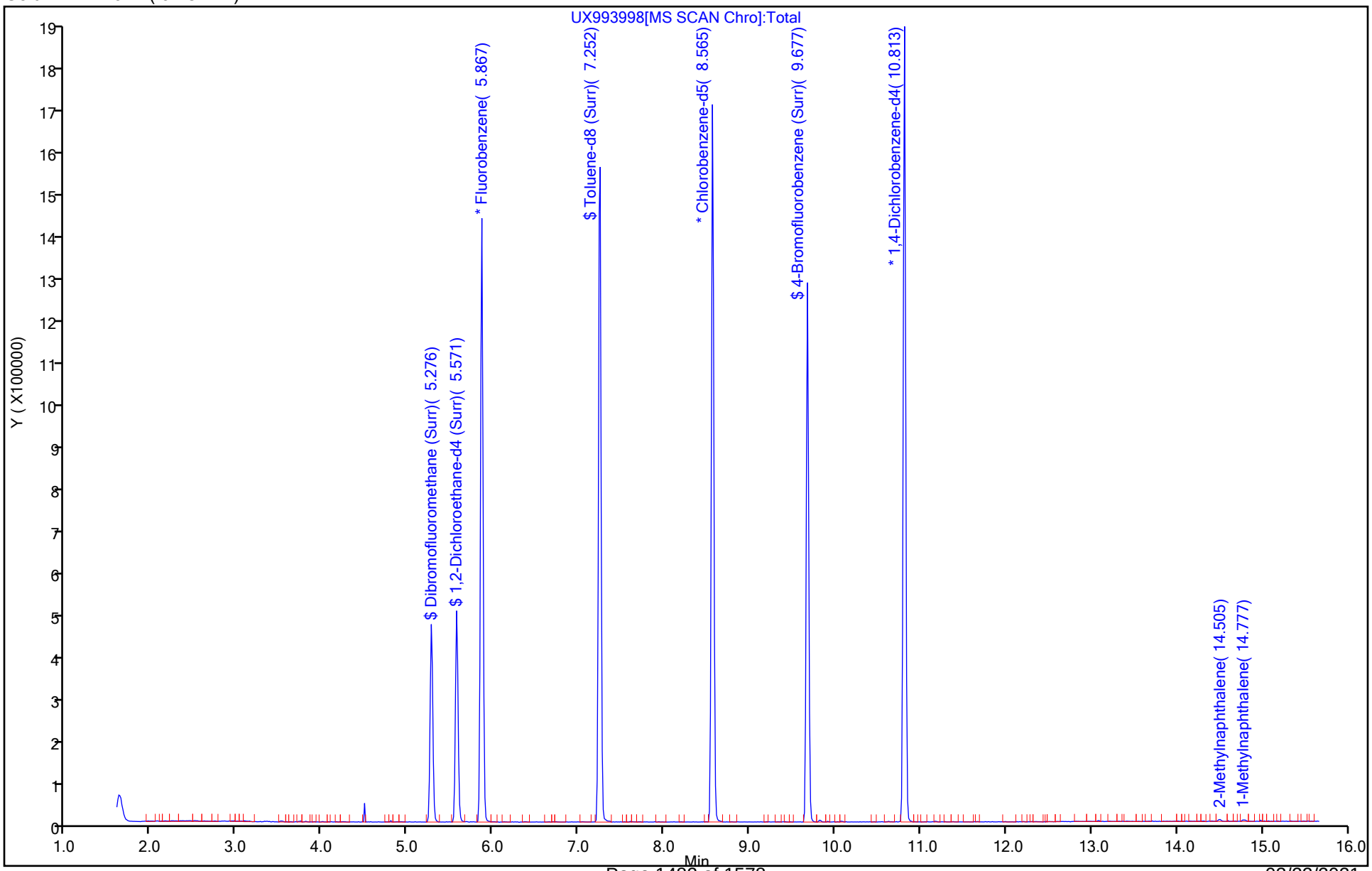
Report Date: 17-Mar-2021 12:03:17 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX993998.D

Injection Date:	17-Mar-2021 09:50:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX993998.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 17-Mar-2021 09:50:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107352-008
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 17-Mar-2021 12:03:16 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 12:03:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	16.2	15.1	93.28
$ 5 1,2-Dichloroethane-d4 (Surr)	16.2	14.8	91.18
$ 6 Toluene-d8 (Surr)	16.2	16.0	98.62
$ 7 4-Bromofluorobenzene (Surr)	16.2	19.3	119.03

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-476369/5

Matrix: Water Lab File ID: UXM35610.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 09:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	35.8		10	5.4
71-43-2	Benzene	21.0		1.0	0.13
108-86-1	Bromobenzene	21.6		1.0	0.12
74-97-5	Bromochloromethane	21.6		1.0	0.14
75-27-4	Bromodichloromethane	21.9		1.0	0.17
75-25-2	Bromoform	17.7		1.0	0.76
74-83-9	Bromomethane	18.2		1.0	0.42
78-93-3	2-Butanone	31.5		10	1.2
75-15-0	Carbon disulfide	19.3		1.0	0.28
56-23-5	Carbon tetrachloride	21.9		1.0	0.26
108-90-7	Chlorobenzene	21.5		1.0	0.14
75-00-3	Chloroethane	21.6		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	16.1		10	0.26
67-66-3	Chloroform	21.9		1.0	0.13
74-87-3	Chloromethane	23.5		1.0	0.20
95-49-8	2-Chlorotoluene	21.8		1.0	0.15
106-43-4	4-Chlorotoluene	21.9		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	22.2		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	20.1		1.0	0.61
124-48-1	Dibromochloromethane	20.8		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	17.6		2.0	0.91
106-93-4	1,2-Dibromoethane	19.7		1.0	0.12
74-95-3	Dibromomethane	20.7		1.0	0.090
95-50-1	1,2-Dichlorobenzene	20.2		1.0	0.15
541-73-1	1,3-Dichlorobenzene	21.0		1.0	0.15
106-46-7	1,4-Dichlorobenzene	21.2		1.0	0.16
75-71-8	Dichlorodifluoromethane	24.6		1.0	0.35
75-34-3	1,1-Dichloroethane	21.9		1.0	0.17
107-06-2	1,2-Dichloroethane	21.4		1.0	0.21
75-35-4	1,1-Dichloroethene	21.7		1.0	0.19
78-87-5	1,2-Dichloropropane	21.7		1.0	0.15
142-28-9	1,3-Dichloropropane	20.2		1.0	0.21
594-20-7	2,2-Dichloropropane	22.2		1.0	0.31
563-58-6	1,1-Dichloropropene	21.4		1.0	0.14
100-41-4	Ethylbenzene	22.0		1.0	0.11
87-68-3	Hexachlorobutadiene	20.1		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-476369/5

Matrix: Water Lab File ID: UXM35610.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 09:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	35.7		10	0.54
98-82-8	Isopropylbenzene	23.0		1.0	0.090
75-09-2	Methylene Chloride	20.5		5.0	2.6
108-10-1	4-Methyl-2-pentanone	34.1		10	0.42
1634-04-4	Methyl tert-butyl ether	18.8		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	22.1		2.0	0.080
91-20-3	Naphthalene	19.7		1.0	0.32
104-51-8	n-Butylbenzene	21.5		1.0	0.14
103-65-1	n-Propylbenzene	22.3		1.0	0.15
95-47-6	o-Xylene	22.0		1.0	0.090
99-87-6	p-Isopropyltoluene	22.4		1.0	0.13
135-98-8	sec-Butylbenzene	22.6		1.0	0.13
100-42-5	Styrene	19.7		1.0	0.10
75-65-0	tert-Butyl alcohol	167		40	1.7
98-06-6	tert-Butylbenzene	22.4		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	20.1		1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	17.9		1.0	0.13
127-18-4	Tetrachloroethene	21.8		1.0	0.15
108-88-3	Toluene	21.6		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	21.5		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	18.2		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	19.9		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	19.7		1.0	0.26
71-55-6	1,1,1-Trichloroethane	22.1		1.0	0.24
79-01-6	Trichloroethene	20.7		1.0	0.10
75-69-4	Trichlorofluoromethane	24.6		1.0	0.45
96-18-4	1,2,3-Trichloropropane	18.4		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	25.2		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	21.7		1.0	0.070
108-05-4	Vinyl acetate	16.9		2.0	0.19
75-01-4	Vinyl chloride	25.6		1.0	0.20
1330-20-7	Xylenes, Total	44.1		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-476369/5

Matrix: Water Lab File ID: UXM35610.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 09:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		47-134
1868-53-7	Dibromofluoromethane (Surr)	91		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35610.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 11-Mar-2021 09:57:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-005
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 10:17:49 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: bosworthh Date: 11-Mar-2021 10:17:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1324417	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	83	1018148	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	92	578451	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	93	327811	24.9	22.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	346098	24.9	22.1	
$ 6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1220946	24.9	22.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	95	507466	24.9	25.7	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	402447	20.0	24.6	
10 Chloromethane	50	1.908	1.909	-0.001	99	490077	20.0	23.5	
11 Vinyl chloride	62	2.027	2.027	0.000	98	573320	20.0	25.6	
12 Butadiene	54	2.063	2.063	0.000	97	480201	20.0	24.3	
13 Bromomethane	94	2.371	2.371	0.000	91	262497	20.0	18.2	
14 Chloroethane	64	2.489	2.490	-0.001	99	258342	20.0	21.6	
15 Dichlorofluoromethane	67	2.715	2.715	0.000	97	585162	20.0	23.1	
16 Trichlorofluoromethane	101	2.750	2.751	-0.001	98	551480	20.0	24.6	
17 Ethyl ether	59	3.023	3.023	0.000	89	216901	20.0	20.5	
18 Acrolein	56	3.165	3.166	-0.001	98	32447	100.0	41.1	
19 1,1-Dichloroethene	96	3.260	3.261	0.000	98	294964	20.0	21.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	89	269075	20.0	25.2	
21 Acetone	58	3.308	3.296	0.012	100	42363	40.0	35.8	
23 Iodomethane	142	3.414	3.403	0.011	97	324629	20.0	15.5	
24 Carbon disulfide	76	3.474	3.474	0.000	99	845493	20.0	19.3	
27 Methyl acetate	43	3.592	3.593	-0.001	96	301777	40.0	36.8	
26 3-Chloro-1-propene	41	3.604	3.604	0.000	89	388522	20.0	21.8	
28 Methylene Chloride	84	3.735	3.735	0.000	88	329703	20.0	20.5	
29 2-Methyl-2-propanol	59	3.806	3.806	0.000	99	174348	200.0	166.9	
30 Acrylonitrile	53	3.948	3.948	0.000	99	970479	200.0	200.2	
31 Methyl tert-butyl ether	73	3.960	3.960	0.000	94	704113	20.0	18.8	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	96	345698	20.0	21.5	
33 Hexane	57	4.221	4.221	0.000	89	432302	20.0	24.7	
35 Vinyl acetate	43	4.363	4.363	0.000	97	361061	20.0	16.9	
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	543421	20.0	21.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	72	4.849	4.850	-0.001	99	48993	40.0	31.5	
41 2,2-Dichloropropane	77	4.873	4.873	0.000	87	473694	20.0	22.2	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	80	380816	20.0	22.2	
45 Chlorobromomethane	128	5.075	5.075	0.000	92	175001	20.0	21.6	
46 Tetrahydrofuran	42	5.086	5.087	-0.001	84	113443	40.0	36.4	
47 Chloroform	83	5.158	5.158	0.000	93	560782	20.0	21.9	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	501326	20.0	22.1	
49 Cyclohexane	56	5.371	5.371	0.000	86	531871	20.0	25.1	
51 Carbon tetrachloride	117	5.442	5.442	0.000	94	440852	20.0	21.9	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	430528	20.0	21.4	
52 Isobutyl alcohol	41	5.502	5.490	0.012	95	125527	500.0	391.7	
54 Benzene	78	5.620	5.620	0.000	95	1278645	20.0	21.0	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	395704	20.0	21.4	
56 n-Heptane	57	5.845	5.846	-0.001	91	263378	20.0	23.2	
58 Trichloroethene	130	6.177	6.178	-0.001	95	374931	20.0	20.7	
60 Methylcyclohexane	83	6.379	6.379	0.000	88	576696	20.0	23.1	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	95	299399	20.0	21.7	
64 1,4-Dioxane	88	6.450	6.450	0.000	89	58082	400.0	357.9	
63 Dibromomethane	93	6.486	6.486	0.000	91	180073	20.0	20.7	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	402177	20.0	21.9	
67 2-Chloroethyl vinyl ether	63	6.853	6.854	-0.001	92	137885	20.0	16.1	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	451579	20.0	20.1	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	94	317006	40.0	34.1	
70 Toluene	91	7.316	7.316	0.000	99	1377546	20.0	21.6	
71 trans-1,3-Dichloropropene	75	7.506	7.506	0.000	92	362367	20.0	18.2	
72 Ethyl methacrylate	69	7.541	7.541	0.000	86	246800	20.0	16.5	
73 1,1,2-Trichloroethane	97	7.695	7.696	-0.001	89	248054	20.0	20.4	
75 Tetrachloroethene	164	7.778	7.779	-0.001	97	312315	20.0	21.8	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	86	426694	20.0	20.2	
76 2-Hexanone	43	7.873	7.873	0.000	93	226914	40.0	35.7	
78 Chlorodibromomethane	129	8.051	8.039	0.012	89	282885	20.0	20.8	
80 Ethylene Dibromide	107	8.158	8.158	0.000	99	245238	20.0	19.7	
82 Chlorobenzene	112	8.620	8.621	-0.001	97	941363	20.0	21.5	
83 1,1,1,2-Tetrachloroethane	131	8.691	8.692	-0.001	95	291403	20.0	20.1	
84 Ethylbenzene	106	8.703	8.704	-0.001	98	522380	20.0	22.0	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	644734	20.0	22.1	
86 o-Xylene	106	9.190	9.190	0.000	96	613672	20.0	22.0	
87 Styrene	104	9.213	9.213	0.000	95	908035	20.0	19.7	
88 Bromoform	173	9.391	9.391	0.000	97	163444	20.0	17.7	
89 Isopropylbenzene	105	9.545	9.546	-0.001	94	1639698	20.0	23.0	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	263865	20.0	17.9	
93 Bromobenzene	156	9.865	9.866	-0.001	88	413490	20.0	21.6	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.878	-0.001	86	68998	20.0	16.4	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	81	95858	20.0	18.4	
96 N-Propylbenzene	120	9.948	9.949	-0.001	98	481088	20.0	22.3	
97 2-Chlorotoluene	126	10.043	10.044	-0.001	97	397257	20.0	21.8	
99 1,3,5-Trimethylbenzene	105	10.126	10.127	-0.001	94	1246685	20.0	21.3	
100 4-Chlorotoluene	126	10.162	10.162	0.000	96	411287	20.0	21.9	
102 tert-Butylbenzene	119	10.435	10.435	0.000	91	1200641	20.0	22.4	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	1251669	20.0	21.7	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	1734570	20.0	22.6	
106 1,3-Dichlorobenzene	146	10.779	10.779	0.000	98	769665	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.802	10.803	-0.001	97	1488667	20.0	22.4	
108 1,4-Dichlorobenzene	146	10.885	10.886	-0.001	96	785467	20.0	21.2	
111 n-Butylbenzene	91	11.217	11.218	-0.001	97	1215632	20.0	21.5	
112 1,2-Dichlorobenzene	146	11.241	11.241	0.000	99	687009	20.0	20.2	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	92	58996	20.0	17.6	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	382069	20.0	19.7	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	96	197459	20.0	20.1	
117 Naphthalene	128	13.138	13.139	-0.001	96	853389	20.0	19.7	
118 1,2,3-Trichlorobenzene	180	13.387	13.388	-0.001	96	345693	20.0	19.9	
S 134 Trihalomethanes, Total	1				0		80.0	82.3	
S 158 Total BTEX	1				0		100.0	108.6	
S 133 Xylenes, Total	106				0		40.0	44.0	

QC Flag Legend

Processing Flags

Reagents:

vmfaspw_00389	Amount Added:	16.00	Units: uL	
vmfasgw_00399	Amount Added:	16.00	Units: uL	
vmfasaw_00365	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

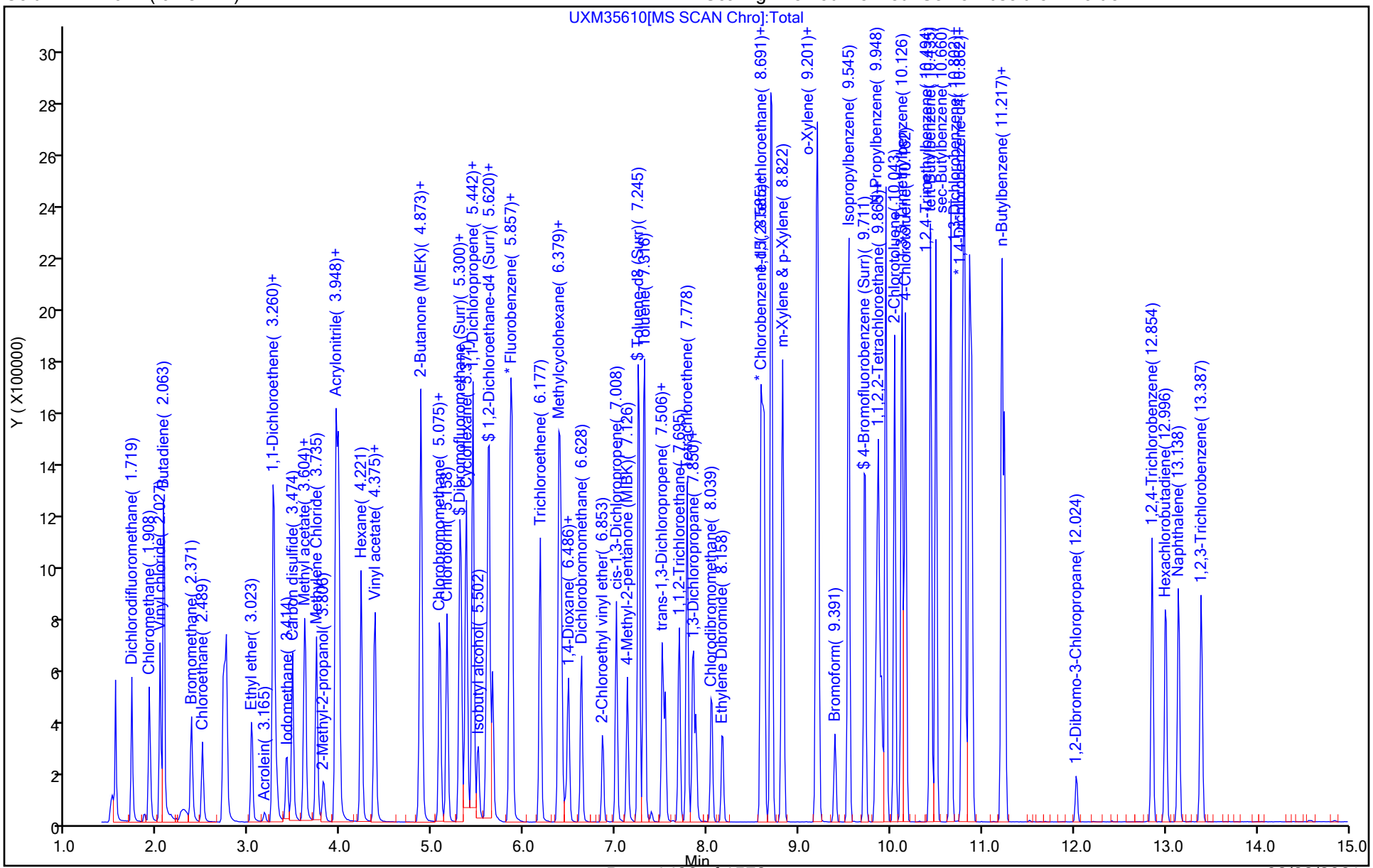
Report Date: 11-Mar-2021 10:17:51 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35610.D

Injection Date:	11-Mar-2021 09:57:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35610.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 11-Mar-2021 09:57:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-005
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 10:17:49 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: bosworthh Date: 11-Mar-2021 10:17:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	22.7	91.12
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	22.1	88.88
$ 6 Toluene-d8 (Surr)	24.9	22.3	89.50
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.7	103.06

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-476858/5

Matrix: Water Lab File ID: U1920961.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2021 19:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	47.8		10	5.4
71-43-2	Benzene	22.4		1.0	0.13
108-86-1	Bromobenzene	18.3		1.0	0.12
74-97-5	Bromochloromethane	23.4		1.0	0.14
75-27-4	Bromodichloromethane	20.9		1.0	0.17
75-25-2	Bromoform	16.2		1.0	0.76
74-83-9	Bromomethane	20.6		1.0	0.42
78-93-3	2-Butanone	40.9		10	1.2
75-15-0	Carbon disulfide	16.7		1.0	0.28
56-23-5	Carbon tetrachloride	18.1		1.0	0.26
108-90-7	Chlorobenzene	19.6		1.0	0.14
75-00-3	Chloroethane	24.4		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	23.6		10	0.26
67-66-3	Chloroform	22.4		1.0	0.13
74-87-3	Chloromethane	24.0		1.0	0.20
95-49-8	2-Chlorotoluene	21.2		1.0	0.15
106-43-4	4-Chlorotoluene	20.5		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	20.7		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	21.3		1.0	0.61
124-48-1	Dibromochloromethane	18.5		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		2.0	0.91
106-93-4	1,2-Dibromoethane	18.8		1.0	0.12
74-95-3	Dibromomethane	16.0		1.0	0.090
95-50-1	1,2-Dichlorobenzene	19.3		1.0	0.15
541-73-1	1,3-Dichlorobenzene	18.7		1.0	0.15
106-46-7	1,4-Dichlorobenzene	18.6		1.0	0.16
75-71-8	Dichlorodifluoromethane	15.9		1.0	0.35
75-34-3	1,1-Dichloroethane	23.3		1.0	0.17
107-06-2	1,2-Dichloroethane	21.7		1.0	0.21
75-35-4	1,1-Dichloroethene	20.6		1.0	0.19
78-87-5	1,2-Dichloropropane	24.5		1.0	0.15
142-28-9	1,3-Dichloropropane	22.4		1.0	0.21
594-20-7	2,2-Dichloropropane	20.2		1.0	0.31
563-58-6	1,1-Dichloropropene	22.0		1.0	0.14
100-41-4	Ethylbenzene	20.1		1.0	0.11
87-68-3	Hexachlorobutadiene	12.5		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-476858/5

Matrix: Water Lab File ID: U1920961.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2021 19:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	47.8		10	0.54
98-82-8	Isopropylbenzene	19.9		1.0	0.090
75-09-2	Methylene Chloride	23.5		5.0	2.6
108-10-1	4-Methyl-2-pentanone	48.2		10	0.42
1634-04-4	Methyl tert-butyl ether	19.6		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	20.2		2.0	0.080
91-20-3	Naphthalene	19.3		1.0	0.32
104-51-8	n-Butylbenzene	21.1		1.0	0.14
103-65-1	n-Propylbenzene	21.2		1.0	0.15
95-47-6	o-Xylene	20.5		1.0	0.090
99-87-6	p-Isopropyltoluene	20.0		1.0	0.13
135-98-8	sec-Butylbenzene	20.4		1.0	0.13
100-42-5	Styrene	18.3		1.0	0.10
75-65-0	tert-Butyl alcohol	228		40	1.7
98-06-6	tert-Butylbenzene	19.5		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	18.2		1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	23.9		1.0	0.13
127-18-4	Tetrachloroethene	16.2		1.0	0.15
108-88-3	Toluene	20.9		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	22.6		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	18.3		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	16.7		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	15.9		1.0	0.26
71-55-6	1,1,1-Trichloroethane	19.1		1.0	0.24
79-01-6	Trichloroethene	18.7		1.0	0.10
75-69-4	Trichlorofluoromethane	18.3		1.0	0.45
96-18-4	1,2,3-Trichloropropane	20.8		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	18.7		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	21.6		1.0	0.070
108-05-4	Vinyl acetate	21.0		2.0	0.19
75-01-4	Vinyl chloride	24.3		1.0	0.20
1330-20-7	Xylenes, Total	40.7		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-476858/5

Matrix: Water Lab File ID: U1920961.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/15/2021 19:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476858 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
1868-53-7	Dibromofluoromethane (Surr)	111		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		75-130
2037-26-5	Toluene-d8 (Surr)	107		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920961.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Mar-2021 19:29:46 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-005
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Mar-2021 17:47:47 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: laveyt Date: 15-Mar-2021 19:54:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.665	5.666	-0.001	99	889891	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	87	715702	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.895	0.000	93	365666	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	111	5.061	5.049	0.012	92	266464	20.0	22.2	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.357	5.357	0.000	97	314594	20.0	22.9	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	921287	20.0	21.5	
$ 7 4-Bromofluorobenzene (Surr)	95	9.685	9.686	-0.001	86	347440	20.0	21.5	
9 Dichlorodifluoromethane	85	1.610	1.610	0.000	99	273077	20.0	15.9	
10 Chloromethane	50	1.811	1.811	0.000	100	307761	20.0	24.0	
11 Butadiene	54	1.918	1.906	0.012	92	283168	20.0	22.0	
12 Vinyl chloride	62	1.918	1.918	0.000	72	321752	20.0	24.3	
13 Bromomethane	94	2.238	2.238	0.000	91	214189	20.0	20.6	
15 Chloroethane	64	2.321	2.310	0.011	100	200975	20.0	24.4	
16 Dichlorofluoromethane	67	2.523	2.511	0.012	97	467674	20.0	22.9	
17 Trichlorofluoromethane	101	2.594	2.594	0.000	99	405060	20.0	18.3	
18 Ethyl ether	59	2.819	2.819	0.000	91	189754	20.0	23.7	
19 Acrolein	56	2.938	2.938	0.000	98	51993	100.0	26.3	
20 1,1-Dichloroethene	61	3.045	3.033	0.012	98	328443	20.0	20.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.068	3.069	0.000	96	213902	20.0	18.7	
22 Acetone	43	3.080	3.080	0.000	99	166788	40.0	47.8	
24 Iodomethane	142	3.187	3.187	0.000	100	312293	20.0	15.1	
25 Carbon disulfide	76	3.258	3.246	0.012	99	557528	20.0	16.7	
27 3-Chloro-1-propene	41	3.377	3.365	0.012	90	338100	20.0	21.5	
28 Methyl acetate	43	3.389	3.389	0.000	97	492010	40.0	47.5	
29 Methylene Chloride	49	3.483	3.484	-0.001	93	298139	20.0	23.5	
30 2-Methyl-2-propanol	59	3.578	3.578	0.000	96	275064	200.0	228.3	
31 Acrylonitrile	53	3.697	3.697	0.000	97	1155808	200.0	258.3	
32 trans-1,2-Dichloroethene	61	3.744	3.733	0.011	74	339986	20.0	22.6	
33 Methyl tert-butyl ether	73	3.744	3.744	0.000	96	603993	20.0	19.6	
34 Hexane	57	3.993	3.993	0.000	94	301032	20.0	19.2	
35 1,1-Dichloroethane	63	4.124	4.112	0.012	96	420299	20.0	23.3	
36 Vinyl acetate	43	4.159	4.148	0.011	97	433318	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	85	266505	20.0	20.7	
42 2,2-Dichloropropane	77	4.646	4.634	0.012	90	219049	20.0	20.2	
40 2-Butanone (MEK)	72	4.634	4.634	0.000	95	85936	40.0	40.9	
46 Chlorobromomethane	49	4.847	4.847	0.000	94	202778	20.0	23.4	
47 Tetrahydrofuran	42	4.895	4.895	0.000	87	228280	40.0	50.1	
48 Chloroform	83	4.918	4.907	0.011	95	442541	20.0	22.4	
49 1,1,1-Trichloroethane	97	5.096	5.084	0.012	98	354206	20.0	19.1	
50 Cyclohexane	84	5.155	5.144	0.011	91	340840	20.0	20.1	
51 1,1-Dichloropropene	75	5.238	5.239	-0.001	95	345109	20.0	22.0	
52 Carbon tetrachloride	117	5.238	5.239	-0.001	97	324323	20.0	18.1	
53 Isobutyl alcohol	41	5.298	5.298	0.000	94	295222	500.0	604.2	
54 Benzene	78	5.416	5.417	-0.001	97	948272	20.0	22.4	
55 1,2-Dichloroethane	62	5.428	5.428	0.000	98	347520	20.0	21.7	
57 n-Heptane	57	5.654	5.642	0.012	86	172920	20.0	17.4	
59 Trichloroethene	130	5.997	5.998	-0.001	97	263594	20.0	18.7	
61 Methylcyclohexane	83	6.175	6.175	0.000	92	388652	20.0	19.0	
62 1,2-Dichloropropane	63	6.199	6.199	0.000	94	240197	20.0	24.5	
64 Dibromomethane	174	6.306	6.306	0.000	95	161190	20.0	16.0	
65 1,4-Dioxane	88	6.306	6.306	0.000	94	57034	400.0	536.5	
66 Dichlorobromomethane	83	6.436	6.436	0.000	99	323480	20.0	20.9	
68 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	93	185536	20.0	23.6	
69 cis-1,3-Dichloropropene	75	6.851	6.851	0.000	94	366696	20.0	21.3	
70 4-Methyl-2-pentanone (MIBK)	43	6.982	6.982	0.000	96	687462	40.0	48.2	
71 Toluene	91	7.171	7.172	-0.001	98	1013015	20.0	20.9	
72 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	95	315153	20.0	18.3	
73 Ethyl methacrylate	69	7.444	7.444	0.000	89	304339	20.0	19.6	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	93	210879	20.0	20.7	
75 Tetrachloroethene	166	7.705	7.705	0.000	93	250516	20.0	16.2	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	91	384616	20.0	22.4	
77 2-Hexanone	43	7.776	7.776	0.000	97	539044	40.0	47.8	
79 Chlorodibromomethane	129	7.930	7.931	-0.001	90	237323	20.0	18.5	
81 Ethylene Dibromide	107	8.049	8.049	0.000	99	224931	20.0	18.8	
83 Chlorobenzene	112	8.535	8.535	0.000	93	648726	20.0	19.6	
84 1,1,1,2-Tetrachloroethane	131	8.606	8.606	0.000	95	217143	20.0	18.2	
85 Ethylbenzene	106	8.642	8.630	0.012	99	347909	20.0	20.1	
86 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	425194	20.0	20.2	
87 o-Xylene	106	9.152	9.152	0.000	98	411241	20.0	20.5	
88 Styrene	104	9.164	9.164	0.000	93	628313	20.0	18.3	
89 Bromoform	173	9.353	9.354	-0.001	95	169589	20.0	16.2	
90 Isopropylbenzene	105	9.531	9.531	0.000	96	1071764	20.0	19.9	
93 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	95	336738	20.0	23.9	
95 Bromobenzene	156	9.851	9.852	-0.001	95	257794	20.0	18.3	
96 1,2,3-Trichloropropane	110	9.875	9.875	0.000	86	110956	20.0	20.8	
97 trans-1,4-Dichloro-2-butene	53	9.875	9.875	0.000	77	107787	20.0	21.5	
98 N-Propylbenzene	120	9.946	9.947	-0.001	99	299882	20.0	21.2	
100 2-Chlorotoluene	126	10.041	10.041	0.000	96	254107	20.0	21.2	
101 1,3,5-Trimethylbenzene	105	10.136	10.136	0.000	95	871299	20.0	21.4	
102 4-Chlorotoluene	126	10.160	10.160	0.000	99	265082	20.0	20.5	
103 tert-Butylbenzene	119	10.468	10.480	-0.012	93	754246	20.0	19.5	
105 1,2,4-Trimethylbenzene	105	10.527	10.528	-0.001	96	892710	20.0	21.6	
106 sec-Butylbenzene	105	10.705	10.705	0.000	94	1060638	20.0	20.4	
107 1,3-Dichlorobenzene	146	10.824	10.824	0.000	97	483001	20.0	18.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 4-Isopropyltoluene	119	10.859	10.860	-0.001	97	913240	20.0	20.0	
109 1,4-Dichlorobenzene	146	10.919	10.919	0.000	93	496363	20.0	18.6	
112 n-Butylbenzene	91	11.286	11.287	-0.001	98	791712	20.0	21.1	
113 1,2-Dichlorobenzene	146	11.310	11.310	0.000	96	453613	20.0	19.3	
114 1,2-Dibromo-3-Chloropropane	157	12.128	12.129	0.000	83	80735	20.0	18.0	
116 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	94	248919	20.0	15.9	
117 Hexachlorobutadiene	225	13.207	13.208	-0.001	98	100519	20.0	12.5	
118 Naphthalene	128	13.279	13.279	0.000	98	835150	20.0	19.3	
119 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	95	234660	20.0	16.7	
S 125 Trihalomethanes, Total	1				0		80.0	78.0	
S 124 Total BTEX	1				0		100.0	104.1	
S 128 Xylenes, Total	106				0		40.0	40.7	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00399	Amount Added:	16.00	Units: uL	
vmfasaw_00366	Amount Added:	16.00	Units: uL	
vmfaspw_00389	Amount Added:	16.00	Units: uL	
vm50ss_stk_00087	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00008	Amount Added:	2.00	Units: uL	Run Reagent

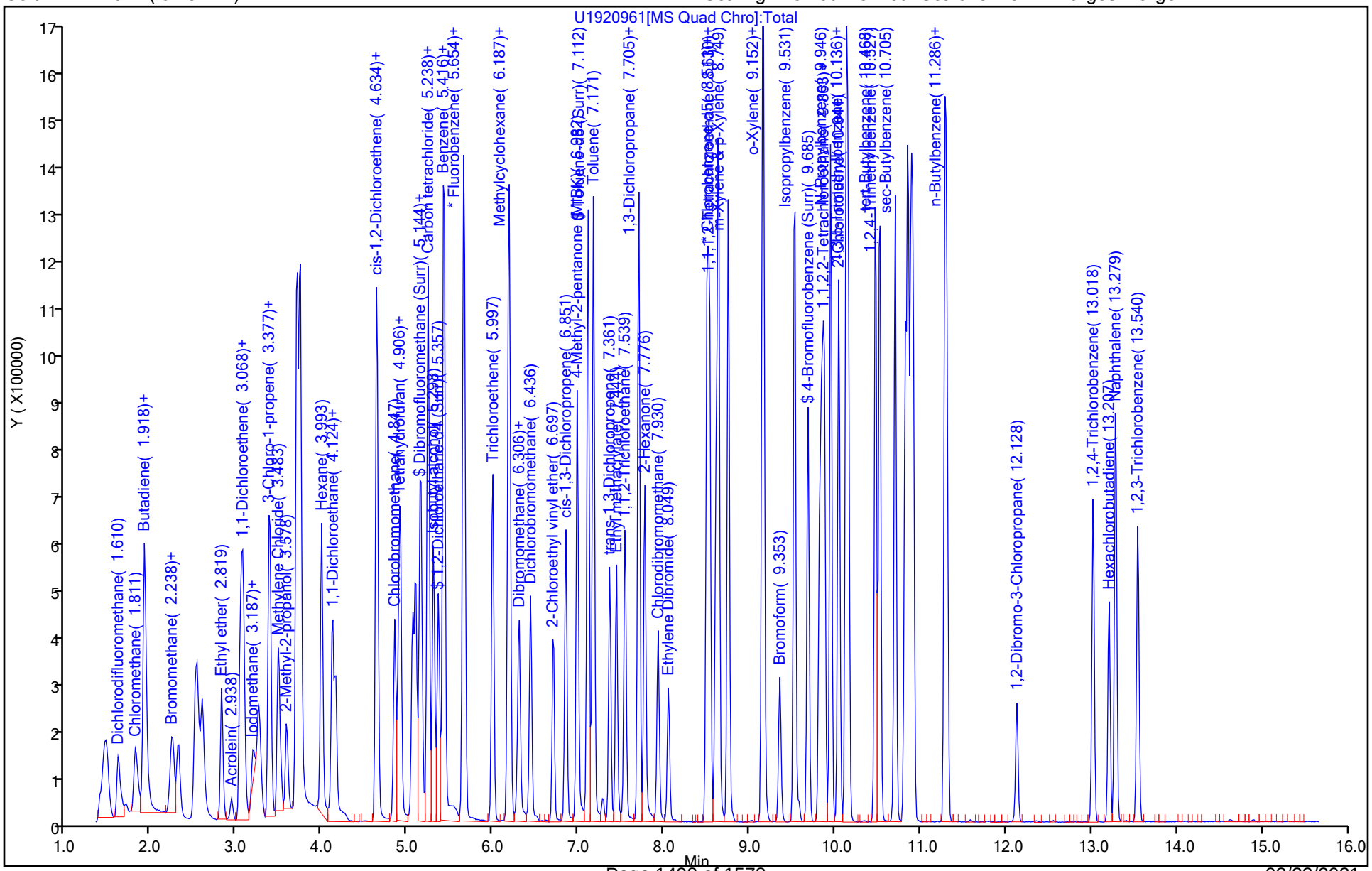
Report Date: 15-Mar-2021 19:54:16 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920961.d

Injection Date:	15-Mar-2021 19:29:46	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8260_19	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\U1920961.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 15-Mar-2021 19:29:46 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107293-005
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromfs\Canton\ChromData\A3UX19\20210315-107293.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 15-Mar-2021 17:47:47 Calib Date: 09-Jun-2020 21:22:13
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX19\20200609-98977.b\U1914735.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: laveyt Date: 15-Mar-2021 19:54:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.2	111.23
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	22.9	114.33
$ 6 Toluene-d8 (Surr)	20.0	21.5	107.34
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.5	107.57

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-476975/5

Matrix: Water Lab File ID: UXM35683.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 11:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	41.0		10	5.4
71-43-2	Benzene	20.2		1.0	0.13
108-86-1	Bromobenzene	20.2		1.0	0.12
74-97-5	Bromochloromethane	18.9		1.0	0.14
75-27-4	Bromodichloromethane	20.8		1.0	0.17
75-25-2	Bromoform	18.3		1.0	0.76
74-83-9	Bromomethane	20.6		1.0	0.42
78-93-3	2-Butanone	39.2		10	1.2
75-15-0	Carbon disulfide	19.4		1.0	0.28
56-23-5	Carbon tetrachloride	18.9		1.0	0.26
108-90-7	Chlorobenzene	19.5		1.0	0.14
75-00-3	Chloroethane	22.9		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	18.3		10	0.26
67-66-3	Chloroform	20.1		1.0	0.13
74-87-3	Chloromethane	23.5		1.0	0.20
95-49-8	2-Chlorotoluene	20.5		1.0	0.15
106-43-4	4-Chlorotoluene	21.1		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	19.8		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	20.3		1.0	0.61
124-48-1	Dibromochloromethane	19.6		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	19.8		2.0	0.91
106-93-4	1,2-Dibromoethane	19.6		1.0	0.12
74-95-3	Dibromomethane	19.1		1.0	0.090
95-50-1	1,2-Dichlorobenzene	19.1		1.0	0.15
541-73-1	1,3-Dichlorobenzene	19.6		1.0	0.15
106-46-7	1,4-Dichlorobenzene	19.8		1.0	0.16
75-71-8	Dichlorodifluoromethane	20.9		1.0	0.35
75-34-3	1,1-Dichloroethane	21.5		1.0	0.17
107-06-2	1,2-Dichloroethane	21.2		1.0	0.21
75-35-4	1,1-Dichloroethene	19.7		1.0	0.19
78-87-5	1,2-Dichloropropane	22.0		1.0	0.15
142-28-9	1,3-Dichloropropane	21.6		1.0	0.21
594-20-7	2,2-Dichloropropane	21.1		1.0	0.31
563-58-6	1,1-Dichloropropene	20.7		1.0	0.14
100-41-4	Ethylbenzene	20.1		1.0	0.11
87-68-3	Hexachlorobutadiene	20.4		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-476975/5

Matrix: Water Lab File ID: UXM35683.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 11:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	46.4		10	0.54
98-82-8	Isopropylbenzene	20.6		1.0	0.090
75-09-2	Methylene Chloride	19.2		5.0	2.6
108-10-1	4-Methyl-2-pentanone	43.3		10	0.42
1634-04-4	Methyl tert-butyl ether	20.0		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	20.0		2.0	0.080
91-20-3	Naphthalene	21.2		1.0	0.32
104-51-8	n-Butylbenzene	22.3		1.0	0.14
103-65-1	n-Propylbenzene	21.2		1.0	0.15
95-47-6	o-Xylene	20.0		1.0	0.090
99-87-6	p-Isopropyltoluene	21.3		1.0	0.13
135-98-8	sec-Butylbenzene	22.0		1.0	0.13
100-42-5	Styrene	18.1		1.0	0.10
75-65-0	tert-Butyl alcohol	214		40	1.7
98-06-6	tert-Butylbenzene	20.9		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	18.9		1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	21.0		1.0	0.13
127-18-4	Tetrachloroethene	19.6		1.0	0.15
108-88-3	Toluene	20.7		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	19.9		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	19.8		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	21.1		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	20.4		1.0	0.26
71-55-6	1,1,1-Trichloroethane	19.8		1.0	0.24
79-01-6	Trichloroethene	17.9		1.0	0.10
75-69-4	Trichlorofluoromethane	23.1		1.0	0.45
96-18-4	1,2,3-Trichloropropane	19.2		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	22.2		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	21.3		1.0	0.070
108-05-4	Vinyl acetate	21.6		2.0	0.19
75-01-4	Vinyl chloride	25.2		1.0	0.20
1330-20-7	Xylenes, Total	40.0		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-476975/5

Matrix: Water Lab File ID: UXM35683.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 11:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	111		47-134
1868-53-7	Dibromofluoromethane (Surr)	91		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
2037-26-5	Toluene-d8 (Surr)	97		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35683.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 16-Mar-2021 11:28:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-005
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 12:46:11 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: bosworthh Date: 16-Mar-2021 12:46:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1329759	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	91	981298	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	93	523399	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	328553	24.9	22.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	366790	24.9	23.4	
$ 6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	93	1280201	24.9	24.3	
$ 7 4-Bromofluorobenzene (Surr)	95	9.711	9.711	0.000	92	525091	24.9	27.6	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	343786	20.0	20.9	
10 Chloromethane	50	1.909	1.909	0.000	99	491879	20.0	23.5	
11 Vinyl chloride	62	2.027	2.027	0.000	98	567496	20.0	25.2	
12 Butadiene	54	2.063	2.063	0.000	97	474976	20.0	24.0	
13 Bromomethane	94	2.371	2.371	0.000	91	297203	20.0	20.6	
14 Chloroethane	64	2.490	2.490	0.000	99	274419	20.0	22.9	
15 Dichlorofluoromethane	67	2.715	2.715	0.000	97	599573	20.0	23.5	
16 Trichlorofluoromethane	101	2.751	2.751	-0.001	98	519532	20.0	23.1	
17 Ethyl ether	59	3.023	3.023	0.000	91	234805	20.0	22.1	
18 Acrolein	56	3.166	3.166	0.000	98	42414	100.0	53.5	
19 1,1-Dichloroethene	96	3.260	3.260	0.000	98	268487	20.0	19.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	92	237797	20.0	22.2	
21 Acetone	58	3.308	3.296	0.012	100	48678	40.0	41.0	
23 Iodomethane	142	3.403	3.415	-0.012	97	284014	20.0	13.5	
24 Carbon disulfide	76	3.474	3.474	0.000	99	852254	20.0	19.4	
27 Methyl acetate	43	3.592	3.592	0.000	97	355203	40.0	43.1	
26 3-Chloro-1-propene	41	3.604	3.604	0.000	89	417673	20.0	23.4	
28 Methylene Chloride	84	3.735	3.735	0.000	90	310921	20.0	19.2	
29 2-Methyl-2-propanol	59	3.818	3.806	0.012	99	224961	200.0	214.4	
30 Acrylonitrile	53	3.948	3.948	0.000	99	1104898	200.0	227.0	
31 Methyl tert-butyl ether	73	3.960	3.960	0.000	95	754106	20.0	20.0	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	98	321149	20.0	19.9	
33 Hexane	57	4.221	4.221	0.000	90	461012	20.0	26.2	
35 Vinyl acetate	43	4.363	4.363	0.000	97	463918	20.0	21.6	
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	534938	20.0	21.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	72	4.849	4.849	0.000	99	61657	40.0	39.2	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	82	340297	20.0	19.8	
41 2,2-Dichloropropane	77	4.873	4.873	0.000	88	452042	20.0	21.1	
45 Chlorobromomethane	128	5.075	5.075	0.000	97	153518	20.0	18.9	
46 Tetrahydrofuran	42	5.087	5.087	0.000	86	145601	40.0	46.6	
47 Chloroform	83	5.158	5.158	0.000	95	516567	20.0	20.1	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	450054	20.0	19.8	
49 Cyclohexane	56	5.371	5.371	0.000	88	546501	20.0	25.7	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	417344	20.0	20.7	
51 Carbon tetrachloride	117	5.442	5.442	0.000	88	381111	20.0	18.9	
52 Isobutyl alcohol	41	5.502	5.502	0.000	94	176801	500.0	546.5	
54 Benzene	78	5.620	5.620	0.000	97	1231496	20.0	20.2	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	392088	20.0	21.2	
56 n-Heptane	57	5.846	5.846	0.000	88	278892	20.0	24.7	
58 Trichloroethene	130	6.178	6.178	0.000	97	324522	20.0	17.9	
60 Methylcyclohexane	83	6.379	6.379	0.000	90	562380	20.0	22.5	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	95	304879	20.0	22.0	
64 1,4-Dioxane	88	6.450	6.450	0.000	93	64712	400.0	397.1	
63 Dibromomethane	93	6.486	6.486	0.000	92	167193	20.0	19.1	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	383585	20.0	20.8	
67 2-Chloroethyl vinyl ether	63	6.854	6.854	0.000	93	156918	20.0	18.3	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	96	459550	20.0	20.3	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	96	404339	40.0	43.3	
70 Toluene	91	7.316	7.316	0.000	99	1273158	20.0	20.7	
71 trans-1,3-Dichloropropene	75	7.506	7.506	0.000	94	380113	20.0	19.8	
72 Ethyl methacrylate	69	7.541	7.541	0.000	88	273921	20.0	19.0	
73 1,1,2-Trichloroethane	97	7.695	7.696	-0.001	91	238507	20.0	20.3	
75 Tetrachloroethene	164	7.779	7.779	-0.001	98	270303	20.0	19.6	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	87	440081	20.0	21.6	
76 2-Hexanone	43	7.873	7.873	0.000	94	283783	40.0	46.4	
78 Chlorodibromomethane	129	8.051	8.051	0.000	89	255993	20.0	19.6	
80 Ethylene Dibromide	107	8.158	8.158	0.000	99	235650	20.0	19.6	
82 Chlorobenzene	112	8.620	8.620	0.000	95	824227	20.0	19.5	
83 1,1,1,2-Tetrachloroethane	131	8.692	8.692	0.000	94	264179	20.0	18.9	
84 Ethylbenzene	106	8.703	8.703	0.000	98	461189	20.0	20.1	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	98	562540	20.0	20.0	
86 o-Xylene	106	9.190	9.190	0.000	96	537281	20.0	20.0	
87 Styrene	104	9.213	9.213	0.000	96	802603	20.0	18.1	
88 Bromoform	173	9.391	9.391	0.000	96	163589	20.0	18.3	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	1417397	20.0	20.6	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	279893	20.0	21.0	
93 Bromobenzene	156	9.866	9.866	0.000	93	350890	20.0	20.2	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	88	83348	20.0	21.8	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	82	90613	20.0	19.2	
96 N-Propylbenzene	120	9.949	9.949	0.000	99	413698	20.0	21.2	
97 2-Chlorotoluene	126	10.043	10.043	0.000	97	338371	20.0	20.5	
99 1,3,5-Trimethylbenzene	105	10.126	10.127	0.000	94	1110435	20.0	21.0	
100 4-Chlorotoluene	126	10.162	10.162	0.000	97	360101	20.0	21.1	
102 tert-Butylbenzene	119	10.435	10.435	0.000	93	1011932	20.0	20.9	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	97	1106923	20.0	21.3	
105 sec-Butylbenzene	105	10.660	10.660	0.000	94	1532216	20.0	22.0	
106 1,3-Dichlorobenzene	146	10.779	10.791	-0.012	98	650430	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.802	10.802	0.000	97	1281031	20.0	21.3	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	664077	20.0	19.8	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	1137786	20.0	22.3	
112 1,2-Dichlorobenzene	146	11.241	11.241	0.000	98	587747	20.0	19.1	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	92	60029	20.0	19.8	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	94	358405	20.0	20.4	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	95	181997	20.0	20.4	
117 Naphthalene	128	13.139	13.139	0.000	97	831070	20.0	21.2	
118 1,2,3-Trichlorobenzene	180	13.388	13.388	0.000	96	331186	20.0	21.1	
S 134 Trihalomethanes, Total	1				0		80.0	78.8	
S 158 Total BTEX	1				0		100.0	100.9	
S 133 Xylenes, Total	106				0		40.0	39.9	

QC Flag Legend

Processing Flags

Reagents:

vmfaspw_00389	Amount Added:	16.00	Units: uL	
vmfasgw_00399	Amount Added:	16.00	Units: uL	
vmfasaw_00366	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

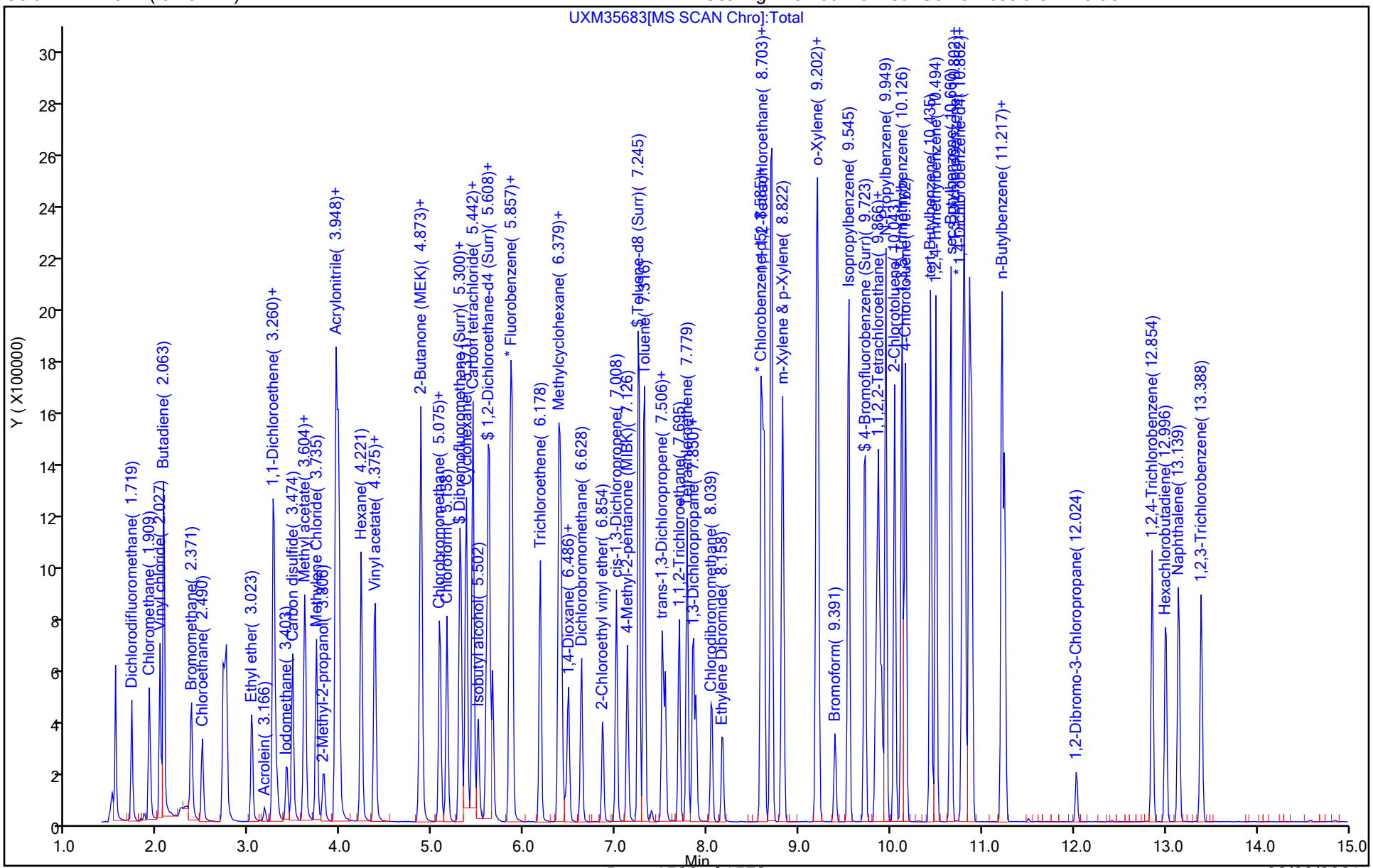
Report Date: 16-Mar-2021 12:46:13 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35683.D

Injection Date:	16-Mar-2021 11:28:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35683.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 16-Mar-2021 11:28:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-005
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 12:46:11 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: bosworthh Date: 16-Mar-2021 12:46:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	22.7	90.96
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	23.4	93.81
$ 6 Toluene-d8 (Surr)	24.9	24.3	97.37
$ 7 4-Bromofluorobenzene (Surr)	24.9	27.6	110.65

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-477127/10

Matrix: Water Lab File ID: UX994000.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 10:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	43.5		10	5.4
71-43-2	Benzene	19.9		1.0	0.13
108-86-1	Bromobenzene	20.7		1.0	0.12
74-97-5	Bromochloromethane	18.6		1.0	0.14
75-27-4	Bromodichloromethane	19.6		1.0	0.17
75-25-2	Bromoform	20.4		1.0	0.76
74-83-9	Bromomethane	16.0		1.0	0.42
78-93-3	2-Butanone	48.5		10	1.2
75-15-0	Carbon disulfide	20.0		1.0	0.28
56-23-5	Carbon tetrachloride	19.4		1.0	0.26
108-90-7	Chlorobenzene	19.3		1.0	0.14
75-00-3	Chloroethane	16.9		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	23.2		10	0.26
67-66-3	Chloroform	18.5		1.0	0.13
74-87-3	Chloromethane	16.2		1.0	0.20
95-49-8	2-Chlorotoluene	19.3		1.0	0.15
106-43-4	4-Chlorotoluene	20.3		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	19.1		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	21.4		1.0	0.61
124-48-1	Dibromochloromethane	19.1		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	18.0		2.0	0.91
106-93-4	1,2-Dibromoethane	20.4		1.0	0.12
74-95-3	Dibromomethane	20.3		1.0	0.090
95-50-1	1,2-Dichlorobenzene	18.3		1.0	0.15
541-73-1	1,3-Dichlorobenzene	18.9		1.0	0.15
106-46-7	1,4-Dichlorobenzene	19.5		1.0	0.16
75-71-8	Dichlorodifluoromethane	16.0		1.0	0.35
75-34-3	1,1-Dichloroethane	19.0		1.0	0.17
107-06-2	1,2-Dichloroethane	18.6		1.0	0.21
75-35-4	1,1-Dichloroethene	19.0		1.0	0.19
78-87-5	1,2-Dichloropropane	21.3		1.0	0.15
142-28-9	1,3-Dichloropropane	19.6		1.0	0.21
594-20-7	2,2-Dichloropropane	18.9		1.0	0.31
563-58-6	1,1-Dichloropropene	20.1		1.0	0.14
100-41-4	Ethylbenzene	20.1		1.0	0.11
87-68-3	Hexachlorobutadiene	18.0		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-477127/10

Matrix: Water Lab File ID: UX994000.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 10:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	44.8		10	0.54
98-82-8	Isopropylbenzene	19.3		1.0	0.090
75-09-2	Methylene Chloride	17.4		5.0	2.6
108-10-1	4-Methyl-2-pentanone	42.2		10	0.42
1634-04-4	Methyl tert-butyl ether	19.4		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	19.9		2.0	0.080
91-20-3	Naphthalene	17.8		1.0	0.32
104-51-8	n-Butylbenzene	19.0		1.0	0.14
103-65-1	n-Propylbenzene	20.0		1.0	0.15
95-47-6	o-Xylene	19.4		1.0	0.090
99-87-6	p-Isopropyltoluene	19.5		1.0	0.13
135-98-8	sec-Butylbenzene	19.6		1.0	0.13
100-42-5	Styrene	20.7		1.0	0.10
75-65-0	tert-Butyl alcohol	191		40	1.7
98-06-6	tert-Butylbenzene	18.4		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	18.5		1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	19.9		1.0	0.13
127-18-4	Tetrachloroethene	19.9		1.0	0.15
108-88-3	Toluene	19.3		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	19.4		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	19.3		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	17.3		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	17.5		1.0	0.26
71-55-6	1,1,1-Trichloroethane	19.2		1.0	0.24
79-01-6	Trichloroethene	19.8		1.0	0.10
75-69-4	Trichlorofluoromethane	16.2		1.0	0.45
96-18-4	1,2,3-Trichloropropane	20.2		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	20.8		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	19.7		1.0	0.070
108-05-4	Vinyl acetate	25.0		2.0	0.19
75-01-4	Vinyl chloride	17.8		1.0	0.20
1330-20-7	Xylenes, Total	39.3		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCS 240-477127/10

Matrix: Water Lab File ID: UX994000.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 10:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	119		47-134
1868-53-7	Dibromofluoromethane (Surr)	91		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		75-130
2037-26-5	Toluene-d8 (Surr)	99		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994000.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Mar-2021 10:36:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107352-010
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 17-Mar-2021 13:18:28 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 13:18:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.865	5.864	0.001	99	1526300	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.563	8.562	0.001	86	1241347	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.811	10.810	0.001	94	674751	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.273	5.274	-0.001	94	320270	16.2	14.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.569	5.570	-0.001	99	390948	16.2	14.4	
$ 6 Toluene-d8 (Surr)	98	7.249	7.250	-0.001	92	1329816	16.2	16.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.675	9.676	-0.001	89	554571	16.2	19.2	
9 Dichlorodifluoromethane	85	1.771	1.772	-0.001	100	413415	20.0	16.0	
10 Chloromethane	50	1.984	1.985	-0.001	99	405781	20.0	16.2	
11 Vinyl chloride	62	2.102	2.103	-0.001	99	438606	20.0	17.8	
12 Butadiene	54	2.126	2.127	-0.001	90	378404	20.0	16.0	
13 Bromomethane	94	2.469	2.470	-0.001	90	332606	20.0	16.0	
15 Chloroethane	64	2.563	2.564	-0.001	100	311214	20.0	16.9	
16 Dichlorofluoromethane	67	2.753	2.754	-0.001	98	689608	20.0	16.3	
17 Trichlorofluoromethane	101	2.824	2.825	-0.001	100	650468	20.0	16.2	
18 Ethyl ether	59	3.072	3.073	-0.001	87	371594	20.0	19.5	
21 Acrolein	56	3.191	3.180	0.011	97	66616	100.0	66.6	
24 1,1-Dichloroethene	61	3.297	3.298	-0.001	98	581284	20.0	19.0	
23 Acetone	58	3.333	3.333	0.000	99	98907	40.0	43.5	
22 112TCTFE	101	3.333	3.345	-0.012	93	380369	20.0	20.8	
25 Iodomethane	142	3.439	3.487	-0.048	99	611361	20.0	19.7	
26 Carbon disulfide	76	3.522	3.535	-0.013	99	1078812	20.0	20.0	
28 3-Chloro-1-propene	41	3.628	3.629	-0.001	90	578514	20.0	19.1	
29 Methyl acetate	43	3.640	3.641	-0.001	96	859285	40.0	38.7	
30 Methylene Chloride	49	3.735	3.736	-0.001	88	479135	20.0	17.4	
31 2-Methyl-2-propanol	59	3.830	3.830	0.000	100	492343	200.0	191.5	
32 Acrylonitrile	53	3.948	3.949	-0.001	99	2199442	200.0	229.2	
33 Methyl tert-butyl ether	73	3.995	3.996	-0.001	94	1356537	20.0	19.4	
34 trans-1,2-Dichloroethene	61	3.995	3.996	-0.001	63	564277	20.0	19.4	
35 Hexane	57	4.244	4.245	-0.001	90	439632	20.0	23.3	
36 1,1-Dichloroethane	63	4.362	4.363	-0.001	96	700885	20.0	19.0	
37 Vinyl acetate	43	4.398	4.398	0.000	97	938040	20.0	25.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	4.871	4.872	-0.001	82	491204	20.0	19.1	
41 2-Butanone (MEK)	72	4.871	4.872	-0.001	77	171518	40.0	48.5	
42 2,2-Dichloropropane	77	4.883	4.884	-0.001	87	479294	20.0	18.9	
47 Chlorobromomethane	49	5.072	5.073	-0.001	86	341188	20.0	18.6	
48 Tetrahydrofuran	42	5.131	5.120	0.011	86	379257	40.0	44.3	
49 Chloroform	83	5.143	5.132	0.011	94	734766	20.0	18.5	
50 1,1,1-Trichloroethane	97	5.321	5.321	-0.001	98	654351	20.0	19.2	
51 Cyclohexane	84	5.380	5.381	-0.001	84	623807	20.0	21.9	
52 1,1-Dichloropropene	75	5.463	5.452	0.010	97	595952	20.0	20.1	
53 Carbon tetrachloride	117	5.474	5.463	0.011	99	549967	20.0	19.4	
54 Isobutyl alcohol	41	5.498	5.499	-0.001	95	536727	500.0	613.5	
56 1,2-Dichloroethane	62	5.640	5.629	0.011	60	615593	20.0	18.6	
55 Benzene	78	5.640	5.641	-0.001	95	1710355	20.0	19.9	
58 n-Heptane	71	5.853	5.842	0.011	86	233651	20.0	21.7	
60 Trichloroethene	130	6.184	6.185	-0.001	97	478711	20.0	19.8	
62 Methylcyclohexane	83	6.374	6.363	0.011	86	575174	20.0	22.1	
63 1,2-Dichloropropane	63	6.374	6.375	-0.001	94	394862	20.0	21.3	
65 1,4-Dioxane	88	6.480	6.481	-0.001	36	112560	400.0	457.4	
66 Dibromomethane	174	6.480	6.481	-0.001	95	311079	20.0	20.3	
67 Dichlorobromomethane	83	6.598	6.599	-0.001	100	550166	20.0	19.6	
69 2-Chloroethyl vinyl ether	63	6.847	6.848	-0.001	94	300156	20.0	23.2	
71 cis-1,3-Dichloropropene	75	6.989	6.990	-0.001	96	695758	20.0	21.4	
72 4-Methyl-2-pentanone (MIBK)	43	7.119	7.108	0.011	95	1058194	40.0	42.2	
73 Toluene	91	7.308	7.309	-0.001	99	1836016	20.0	19.3	
74 trans-1,3-Dichloropropene	75	7.474	7.475	-0.001	93	622182	20.0	19.3	
75 Ethyl methacrylate	69	7.545	7.546	-0.001	87	577711	20.0	21.6	
76 1,1,2-Trichloroethane	97	7.652	7.652	0.000	92	393869	20.0	19.7	
77 1,3-Dichloropropane	76	7.805	7.806	-0.001	92	702500	20.0	19.6	
78 Tetrachloroethene	166	7.817	7.806	0.011	96	448431	20.0	19.9	
80 2-Hexanone	43	7.865	7.854	0.011	93	794189	40.0	44.8	
82 Chlorodibromomethane	129	8.018	8.019	-0.001	90	403071	20.0	19.1	
83 Ethylene Dibromide	107	8.137	8.138	-0.001	98	433617	20.0	20.4	
85 Chlorobenzene	112	8.598	8.599	-0.001	96	1191560	20.0	19.3	
86 1,1,1,2-Tetrachloroethane	131	8.657	8.658	-0.001	95	414534	20.0	18.5	
87 Ethylbenzene	106	8.693	8.682	0.011	98	636582	20.0	20.1	
88 m-Xylene & p-Xylene	106	8.799	8.800	-0.001	100	786674	20.0	19.9	
89 o-Xylene	106	9.178	9.179	-0.001	96	787031	20.0	19.4	
90 Styrene	104	9.178	9.179	-0.001	92	1184378	20.0	20.7	
91 Bromoform	173	9.367	9.368	-0.001	96	270117	20.0	20.4	
92 Isopropylbenzene	105	9.521	9.522	-0.001	96	1909282	20.0	19.3	
94 1,1,2,2-Tetrachloroethane	83	9.793	9.794	-0.001	96	590661	20.0	19.9	
95 Bromobenzene	156	9.841	9.842	-0.001	95	507215	20.0	20.7	
96 trans-1,4-Dichloro-2-butene	53	9.841	9.842	-0.001	72	195927	20.0	21.7	
97 1,2,3-Trichloropropane	110	9.841	9.842	-0.001	82	230382	20.0	20.2	
98 N-Propylbenzene	120	9.923	9.924	-0.001	99	504833	20.0	20.0	
100 2-Chlorotoluene	126	10.018	10.019	-0.001	97	462135	20.0	19.3	
101 1,3,5-Trimethylbenzene	105	10.089	10.090	-0.001	94	1526818	20.0	19.7	
102 4-Chlorotoluene	126	10.125	10.126	-0.001	97	488068	20.0	20.3	
104 tert-Butylbenzene	119	10.420	10.421	-0.001	90	1272603	20.0	18.4	
106 1,2,4-Trimethylbenzene	105	10.456	10.457	-0.001	95	1586330	20.0	19.7	
107 sec-Butylbenzene	134	10.633	10.634	-0.001	94	364354	20.0	19.6	
108 1,3-Dichlorobenzene	146	10.752	10.753	-0.001	98	906518	20.0	18.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
109 4-Isopropyltoluene	119	10.775	10.764	0.011	97	1512580	20.0	19.5	
110 1,4-Dichlorobenzene	146	10.835	10.835	0.000	96	958037	20.0	19.5	
113 n-Butylbenzene	91	11.178	11.179	-0.001	96	1186690	20.0	19.0	
114 1,2-Dichlorobenzene	146	11.213	11.214	-0.001	98	907393	20.0	18.3	
115 1,2-Dibromo-3-Chloropropane	157	11.982	11.971	0.011	87	156795	20.0	18.0	
117 1,2,4-Trichlorobenzene	180	12.823	12.823	-0.001	94	508581	20.0	17.5	
118 Hexachlorobutadiene	225	13.000	13.001	-0.001	97	162428	20.0	18.0	
119 Naphthalene	128	13.083	13.084	-0.001	97	1868577	20.0	17.8	
120 1,2,3-Trichlorobenzene	180	13.355	13.356	-0.001	95	476033	20.0	17.3	
S 158 Total BTEX	1				0		100.0	98.6	
S 130 Trihalomethanes, Total	83				0		80.0	77.6	
S 131 Xylenes, Total	106				0		40.0	39.3	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00399	Amount Added:	16.00	Units: uL	
vmfasaw_00366	Amount Added:	16.00	Units: uL	
vmfaspw_00390	Amount Added:	16.00	Units: uL	
vm100is_stk_a_00006	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm100ss_stk_00033	Amount Added:	0.81	Units: uL	Run Reagent

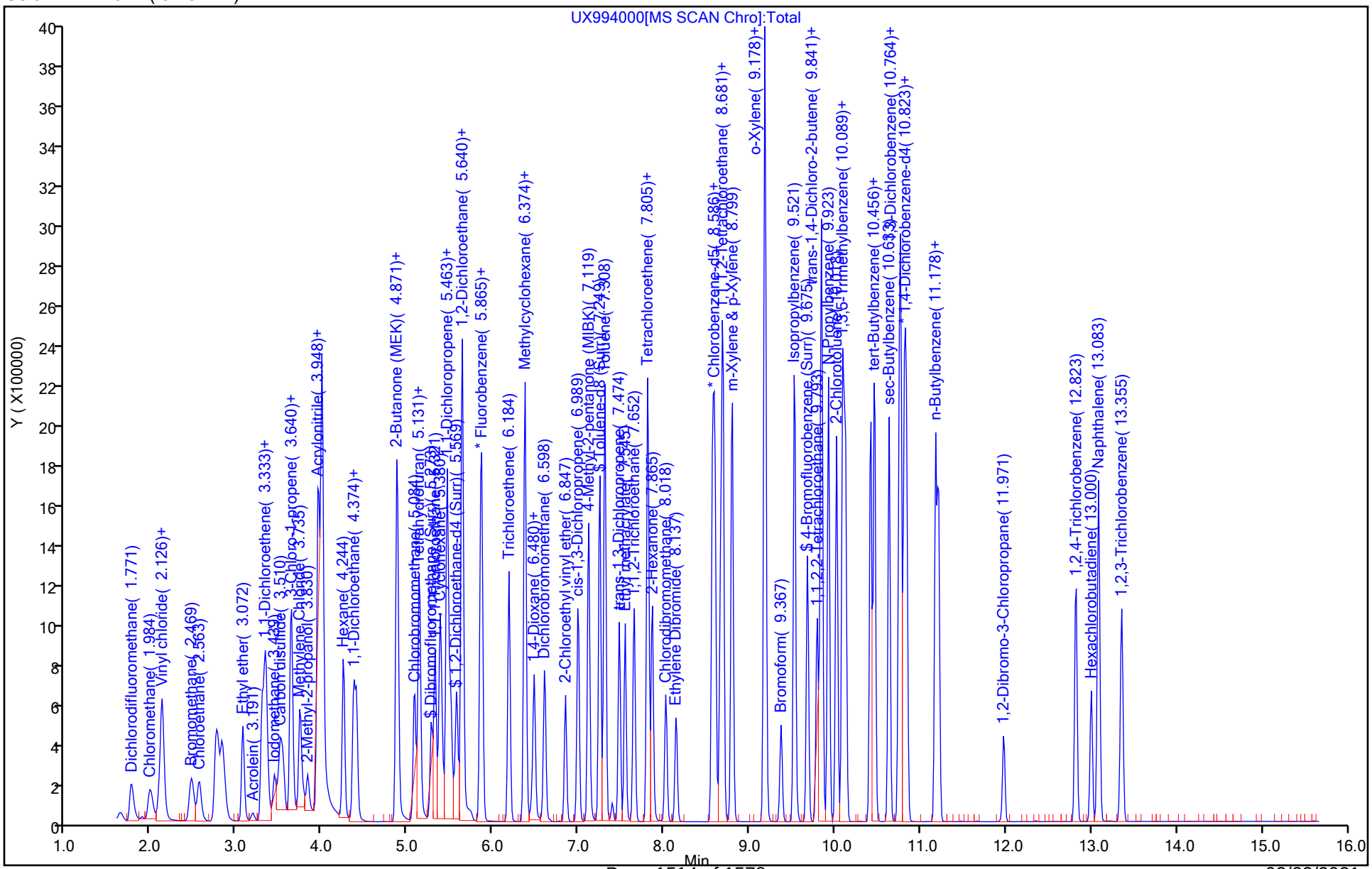
Report Date: 17-Mar-2021 13:18:29 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994000.D

Injection Date:	17-Mar-2021 10:36:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	LCS			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994000.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 17-Mar-2021 10:36:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107352-010
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 17-Mar-2021 13:18:28 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1658

First Level Reviewer: bosworthh Date: 17-Mar-2021 13:18:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	16.2	14.7	90.59
$ 5 1,2-Dichloroethane-d4 (Surr)	16.2	14.4	88.59
$ 6 Toluene-d8 (Surr)	16.2	16.1	99.29
$ 7 4-Bromofluorobenzene (Surr)	16.2	19.2	118.53

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCSD 240-476369/10

Matrix: Water Lab File ID: UXM35615.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	34.5		10	5.4
71-43-2	Benzene	19.4		1.0	0.13
108-86-1	Bromobenzene	20.1		1.0	0.12
74-97-5	Bromochloromethane	19.8		1.0	0.14
75-27-4	Bromodichloromethane	19.6		1.0	0.17
75-25-2	Bromoform	16.5		1.0	0.76
74-83-9	Bromomethane	18.1		1.0	0.42
78-93-3	2-Butanone	31.3		10	1.2
75-15-0	Carbon disulfide	17.5		1.0	0.28
56-23-5	Carbon tetrachloride	19.7		1.0	0.26
108-90-7	Chlorobenzene	19.5		1.0	0.14
75-00-3	Chloroethane	21.0		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	14.7		10	0.26
67-66-3	Chloroform	19.6		1.0	0.13
74-87-3	Chloromethane	21.4		1.0	0.20
95-49-8	2-Chlorotoluene	20.2		1.0	0.15
106-43-4	4-Chlorotoluene	20.7		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	20.6		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	18.1		1.0	0.61
124-48-1	Dibromochloromethane	18.9		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	16.9		2.0	0.91
106-93-4	1,2-Dibromoethane	18.2		1.0	0.12
74-95-3	Dibromomethane	19.1		1.0	0.090
95-50-1	1,2-Dichlorobenzene	19.3		1.0	0.15
541-73-1	1,3-Dichlorobenzene	19.6		1.0	0.15
106-46-7	1,4-Dichlorobenzene	20.0		1.0	0.16
75-71-8	Dichlorodifluoromethane	23.2		1.0	0.35
75-34-3	1,1-Dichloroethane	19.9		1.0	0.17
107-06-2	1,2-Dichloroethane	19.0		1.0	0.21
75-35-4	1,1-Dichloroethene	19.6		1.0	0.19
78-87-5	1,2-Dichloropropane	20.0		1.0	0.15
142-28-9	1,3-Dichloropropane	18.6		1.0	0.21
594-20-7	2,2-Dichloropropane	20.4		1.0	0.31
563-58-6	1,1-Dichloropropene	19.4		1.0	0.14
100-41-4	Ethylbenzene	20.0		1.0	0.11
87-68-3	Hexachlorobutadiene	19.6		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCSD 240-476369/10

Matrix: Water Lab File ID: UXM35615.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	33.2		10	0.54
98-82-8	Isopropylbenzene	20.8		1.0	0.090
75-09-2	Methylene Chloride	18.6		5.0	2.6
108-10-1	4-Methyl-2-pentanone	31.8		10	0.42
1634-04-4	Methyl tert-butyl ether	17.2		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	20.1		2.0	0.080
91-20-3	Naphthalene	19.1		1.0	0.32
104-51-8	n-Butylbenzene	20.7		1.0	0.14
103-65-1	n-Propylbenzene	21.0		1.0	0.15
95-47-6	o-Xylene	20.1		1.0	0.090
99-87-6	p-Isopropyltoluene	21.3		1.0	0.13
135-98-8	sec-Butylbenzene	21.4		1.0	0.13
100-42-5	Styrene	18.0		1.0	0.10
75-65-0	tert-Butyl alcohol	157		40	1.7
98-06-6	tert-Butylbenzene	20.9		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	18.7		1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	17.6		1.0	0.13
127-18-4	Tetrachloroethene	20.4		1.0	0.15
108-88-3	Toluene	19.8		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	19.7		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	16.4		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	19.5		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	19.4		1.0	0.26
71-55-6	1,1,1-Trichloroethane	20.0		1.0	0.24
79-01-6	Trichloroethene	18.6		1.0	0.10
75-69-4	Trichlorofluoromethane	23.9		1.0	0.45
96-18-4	1,2,3-Trichloropropane	17.4		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	22.6		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	20.4		1.0	0.070
108-05-4	Vinyl acetate	15.5		2.0	0.19
75-01-4	Vinyl chloride	23.3		1.0	0.20
1330-20-7	Xylenes, Total	40.2		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCSD 240-476369/10

Matrix: Water Lab File ID: UXM35615.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/11/2021 12:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476369 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		47-134
1868-53-7	Dibromofluoromethane (Surr)	89		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		75-130
2037-26-5	Toluene-d8 (Surr)	89		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35615.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 11-Mar-2021 12:00:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-010
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 10:17:42 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: bosworthh Date: 11-Mar-2021 12:29:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	100	1318008	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	83	1012291	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	92	561767	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.288	0.012	94	320346	24.9	22.3	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.597	5.585	0.012	98	338266	24.9	21.8	
$ 6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	92	1206171	24.9	22.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	96	491314	24.9	25.0	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	377155	20.0	23.2	
10 Chloromethane	50	1.909	1.909	0.000	99	443787	20.0	21.4	
11 Vinyl chloride	62	2.027	2.027	0.000	98	518952	20.0	23.3	
12 Butadiene	54	2.075	2.063	0.012	97	463100	20.0	23.6	
13 Bromomethane	94	2.371	2.371	0.000	90	259301	20.0	18.1	
14 Chloroethane	64	2.490	2.490	0.000	99	249330	20.0	21.0	
15 Dichlorofluoromethane	67	2.715	2.715	0.000	97	558855	20.0	22.1	
16 Trichlorofluoromethane	101	2.751	2.751	0.000	98	533897	20.0	23.9	
17 Ethyl ether	59	3.023	3.023	0.000	88	199402	20.0	19.0	
18 Acrolein	56	3.166	3.166	0.000	99	31979	100.0	40.7	
19 1,1-Dichloroethene	96	3.260	3.261	0.000	97	265064	20.0	19.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	90	241009	20.0	22.6	
21 Acetone	58	3.308	3.296	0.012	99	40554	40.0	34.5	
23 Iodomethane	142	3.415	3.403	0.012	97	279465	20.0	13.4	
24 Carbon disulfide	76	3.474	3.474	0.000	99	760633	20.0	17.5	
27 Methyl acetate	43	3.593	3.593	-0.001	96	282819	40.0	34.7	
26 3-Chloro-1-propene	41	3.616	3.604	0.012	88	345492	20.0	19.5	
28 Methylene Chloride	84	3.735	3.735	0.000	87	298077	20.0	18.6	
29 2-Methyl-2-propanol	59	3.806	3.806	0.000	99	163279	200.0	157.0	
30 Acrylonitrile	53	3.948	3.948	0.000	99	900930	200.0	186.7	
31 Methyl tert-butyl ether	73	3.960	3.960	0.000	94	643126	20.0	17.2	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	95	314871	20.0	19.7	
33 Hexane	57	4.221	4.221	0.000	89	389621	20.0	22.3	
35 Vinyl acetate	43	4.363	4.363	0.000	97	328278	20.0	15.5	
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	492477	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
40 2-Butanone (MEK)	72	4.850	4.850	0.000	98	48445	40.0	31.3	
41 2,2-Dichloropropane	77	4.873	4.873	0.000	86	432808	20.0	20.4	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	80	350833	20.0	20.6	
45 Chlorobromomethane	128	5.075	5.075	0.000	92	159395	20.0	19.8	
46 Tetrahydrofuran	42	5.087	5.087	0.000	85	107713	40.0	34.8	
47 Chloroform	83	5.158	5.158	0.000	93	500965	20.0	19.6	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	449831	20.0	20.0	
49 Cyclohexane	56	5.371	5.371	0.000	86	478965	20.0	22.7	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	387885	20.0	19.4	
51 Carbon tetrachloride	117	5.442	5.442	0.000	94	394352	20.0	19.7	
52 Isobutyl alcohol	41	5.502	5.490	0.012	94	122720	500.0	384.9	
54 Benzene	78	5.620	5.620	0.000	96	1177283	20.0	19.4	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	98	348118	20.0	19.0	
56 n-Heptane	57	5.846	5.846	0.000	85	244603	20.0	21.4	
58 Trichloroethene	130	6.178	6.178	0.000	95	334435	20.0	18.6	
60 Methylcyclohexane	83	6.379	6.379	0.000	88	529032	20.0	21.3	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	96	275023	20.0	20.0	
64 1,4-Dioxane	88	6.450	6.450	0.000	89	57121	400.0	353.7	
63 Dibromomethane	93	6.486	6.486	0.000	91	165326	20.0	19.1	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	357230	20.0	19.6	
67 2-Chloroethyl vinyl ether	63	6.854	6.854	0.000	92	125387	20.0	14.7	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	97	404568	20.0	18.1	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	93	294032	40.0	31.8	
70 Toluene	91	7.316	7.316	0.000	99	1255369	20.0	19.8	
71 trans-1,3-Dichloropropene	75	7.506	7.506	0.000	92	325075	20.0	16.4	
72 Ethyl methacrylate	69	7.541	7.541	0.000	86	223538	20.0	15.1	
73 1,1,2-Trichloroethane	97	7.696	7.696	0.000	88	228695	20.0	18.9	
75 Tetrachloroethene	164	7.779	7.779	0.000	97	291123	20.0	20.4	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	86	391088	20.0	18.6	
76 2-Hexanone	43	7.873	7.873	0.000	92	209628	40.0	33.2	
78 Chlorodibromomethane	129	8.051	8.039	0.012	89	254442	20.0	18.9	
80 Ethylene Dibromide	107	8.158	8.158	0.000	99	225445	20.0	18.2	
82 Chlorobenzene	112	8.621	8.621	0.000	97	850192	20.0	19.5	
83 1,1,1,2-Tetrachloroethane	131	8.692	8.692	0.000	95	270094	20.0	18.7	
84 Ethylbenzene	106	8.704	8.704	0.000	98	472795	20.0	20.0	
85 m-Xylene & p-Xylene	106	8.822	8.822	0.000	97	584766	20.0	20.1	
86 o-Xylene	106	9.190	9.190	0.000	96	558450	20.0	20.1	
87 Styrene	104	9.213	9.213	0.000	95	822055	20.0	18.0	
88 Bromoform	173	9.391	9.391	0.000	95	152103	20.0	16.5	
89 Isopropylbenzene	105	9.545	9.546	-0.001	95	1477512	20.0	20.8	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	95	252010	20.0	17.6	
93 Bromobenzene	156	9.866	9.866	0.000	87	373167	20.0	20.1	
94 trans-1,4-Dichloro-2-butene	53	9.878	9.878	0.000	87	63878	20.0	15.6	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	81	88267	20.0	17.4	
96 N-Propylbenzene	120	9.949	9.949	0.000	98	440049	20.0	21.0	
97 2-Chlorotoluene	126	10.044	10.044	0.000	97	357487	20.0	20.2	
99 1,3,5-Trimethylbenzene	105	10.127	10.127	0.000	94	1156958	20.0	20.4	
100 4-Chlorotoluene	126	10.162	10.162	0.000	96	378589	20.0	20.7	
102 tert-Butylbenzene	119	10.435	10.435	0.000	91	1089070	20.0	20.9	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	96	1139051	20.0	20.4	
105 sec-Butylbenzene	105	10.660	10.660	0.000	93	1600192	20.0	21.4	
106 1,3-Dichlorobenzene	146	10.791	10.779	0.012	98	699193	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.802	10.803	-0.001	97	1374519	20.0	21.3	
108 1,4-Dichlorobenzene	146	10.885	10.886	-0.001	96	718155	20.0	20.0	
111 n-Butylbenzene	91	11.218	11.218	0.000	97	1134177	20.0	20.7	
112 1,2-Dichlorobenzene	146	11.241	11.241	0.000	99	635829	20.0	19.3	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	89	54897	20.0	16.9	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	93	365981	20.0	19.4	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	96	186880	20.0	19.6	
117 Naphthalene	128	13.139	13.139	0.000	96	805880	20.0	19.1	
118 1,2,3-Trichlorobenzene	180	13.388	13.388	0.000	96	328983	20.0	19.5	
S 134 Trihalomethanes, Total	1				0		80.0	74.6	
S 158 Total BTEX	1				0		100.0	99.4	
S 133 Xylenes, Total	106				0		40.0	40.2	

QC Flag Legend

Processing Flags

Reagents:

vmfaspw_00389	Amount Added:	16.00	Units: uL	
vmfasgw_00399	Amount Added:	16.00	Units: uL	
vmfasaw_00365	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00008	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00188	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00086	Amount Added:	2.49	Units: uL	Run Reagent

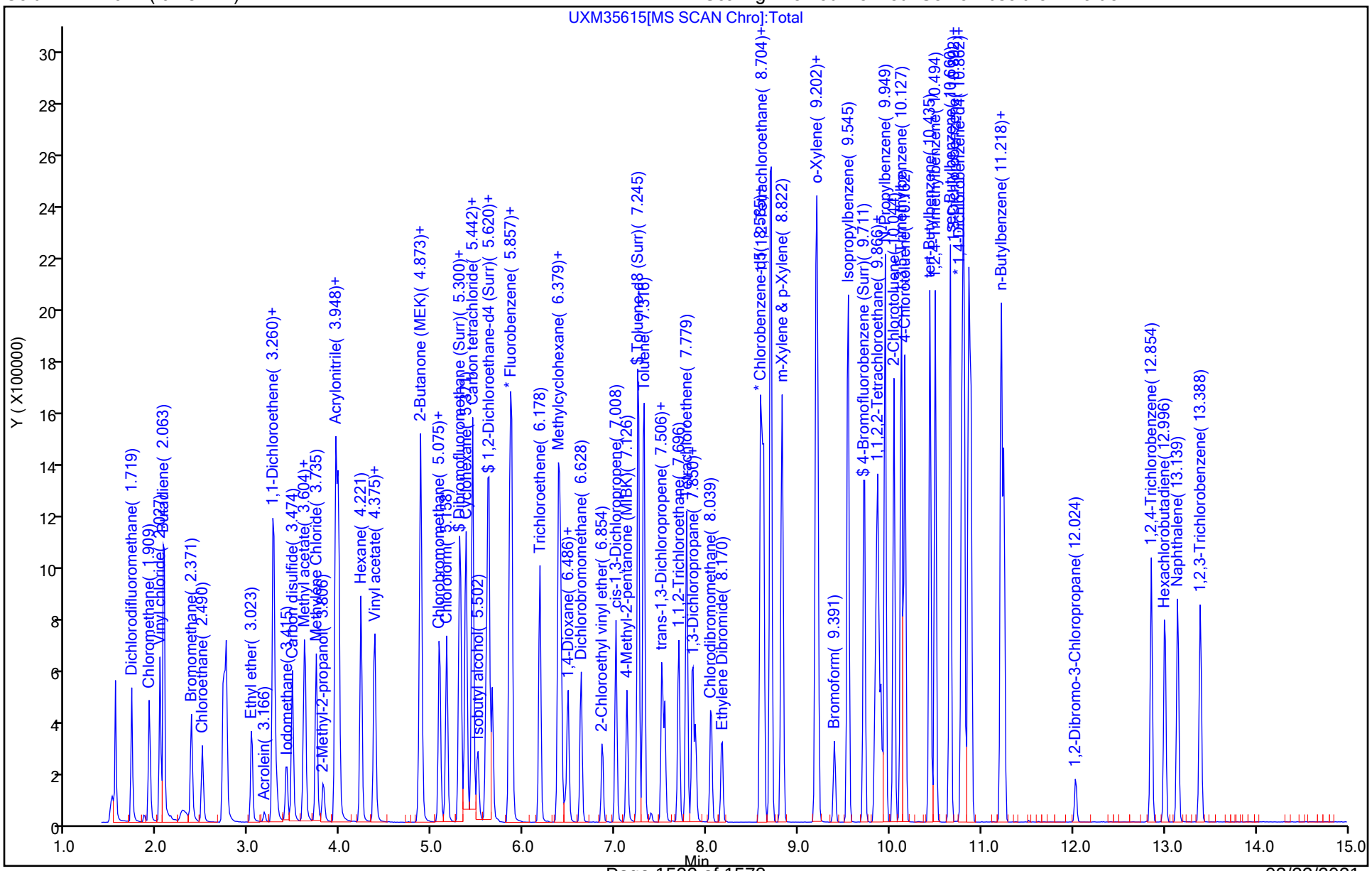
Report Date: 11-Mar-2021 12:29:51 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35615.D

Injection Date:	11-Mar-2021 12:00:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	LCSD			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\UXM35615.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 11-Mar-2021 12:00:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107193-010
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210311-107193.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 11-Mar-2021 10:17:42 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1649

First Level Reviewer: bosworthh Date: 11-Mar-2021 12:29:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	22.3	89.48
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	21.8	87.29
$ 6 Toluene-d8 (Surr)	24.9	22.2	88.93
$ 7 4-Bromofluorobenzene (Surr)	24.9	25.0	100.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCSD 240-476975/10

Matrix: Water Lab File ID: UXM35688.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	38.5		10	5.4
71-43-2	Benzene	20.2		1.0	0.13
108-86-1	Bromobenzene	19.4		1.0	0.12
74-97-5	Bromochloromethane	19.2		1.0	0.14
75-27-4	Bromodichloromethane	20.6		1.0	0.17
75-25-2	Bromoform	17.6		1.0	0.76
74-83-9	Bromomethane	18.9		1.0	0.42
78-93-3	2-Butanone	36.3		10	1.2
75-15-0	Carbon disulfide	19.4		1.0	0.28
56-23-5	Carbon tetrachloride	19.6		1.0	0.26
108-90-7	Chlorobenzene	19.9		1.0	0.14
75-00-3	Chloroethane	20.8		1.0	0.83
110-75-8	2-Chloroethyl vinyl ether	17.4		10	0.26
67-66-3	Chloroform	20.3		1.0	0.13
74-87-3	Chloromethane	21.3		1.0	0.20
95-49-8	2-Chlorotoluene	20.8		1.0	0.15
106-43-4	4-Chlorotoluene	21.4		1.0	0.090
156-59-2	cis-1,2-Dichloroethene	20.2		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	19.8		1.0	0.61
124-48-1	Dibromochloromethane	19.0		1.0	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	18.4		2.0	0.91
106-93-4	1,2-Dibromoethane	19.1		1.0	0.12
74-95-3	Dibromomethane	19.1		1.0	0.090
95-50-1	1,2-Dichlorobenzene	18.8		1.0	0.15
541-73-1	1,3-Dichlorobenzene	19.2		1.0	0.15
106-46-7	1,4-Dichlorobenzene	19.6		1.0	0.16
75-71-8	Dichlorodifluoromethane	19.5		1.0	0.35
75-34-3	1,1-Dichloroethane	21.7		1.0	0.17
107-06-2	1,2-Dichloroethane	20.7		1.0	0.21
75-35-4	1,1-Dichloroethene	20.6		1.0	0.19
78-87-5	1,2-Dichloropropane	22.3		1.0	0.15
142-28-9	1,3-Dichloropropane	21.2		1.0	0.21
594-20-7	2,2-Dichloropropane	21.5		1.0	0.31
563-58-6	1,1-Dichloropropene	20.8		1.0	0.14
100-41-4	Ethylbenzene	20.3		1.0	0.11
87-68-3	Hexachlorobutadiene	20.1		1.0	0.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCSD 240-476975/10

Matrix: Water Lab File ID: UXM35688.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
591-78-6	2-Hexanone	43.1		10	0.54
98-82-8	Isopropylbenzene	21.4		1.0	0.090
75-09-2	Methylene Chloride	19.2		5.0	2.6
108-10-1	4-Methyl-2-pentanone	40.2		10	0.42
1634-04-4	Methyl tert-butyl ether	19.2		1.0	0.070
179601-23-1	m-Xylene & p-Xylene	20.6		2.0	0.080
91-20-3	Naphthalene	20.0		1.0	0.32
104-51-8	n-Butylbenzene	22.3		1.0	0.14
103-65-1	n-Propylbenzene	21.5		1.0	0.15
95-47-6	o-Xylene	20.6		1.0	0.090
99-87-6	p-Isopropyltoluene	21.6		1.0	0.13
135-98-8	sec-Butylbenzene	22.3		1.0	0.13
100-42-5	Styrene	18.7		1.0	0.10
75-65-0	tert-Butyl alcohol	199		40	1.7
98-06-6	tert-Butylbenzene	21.3		1.0	0.14
630-20-6	1,1,1,2-Tetrachloroethane	19.0		1.0	0.14
79-34-5	1,1,2,2-Tetrachloroethane	19.8		1.0	0.13
127-18-4	Tetrachloroethene	19.4		1.0	0.15
108-88-3	Toluene	21.0		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	20.2		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	18.8		1.0	0.67
87-61-6	1,2,3-Trichlorobenzene	19.9		1.0	0.54
120-82-1	1,2,4-Trichlorobenzene	19.7		1.0	0.26
71-55-6	1,1,1-Trichloroethane	20.1		1.0	0.24
79-01-6	Trichloroethene	18.2		1.0	0.10
75-69-4	Trichlorofluoromethane	21.8		1.0	0.45
96-18-4	1,2,3-Trichloropropane	18.7		1.0	0.24
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	22.8		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	21.0		1.0	0.070
108-05-4	Vinyl acetate	20.2		2.0	0.19
75-01-4	Vinyl chloride	23.6		1.0	0.20
1330-20-7	Xylenes, Total	41.2		2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: LCSD 240-476975/10

Matrix: Water Lab File ID: UXM35688.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/16/2021 13:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 476975 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	111		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
2037-26-5	Toluene-d8 (Surr)	97		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35688.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 16-Mar-2021 13:32:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-010
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 12:15:00 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1613

First Level Reviewer: bosworthh Date: 16-Mar-2021 14:18:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.869	5.869	0.000	99	1296000	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.585	8.585	0.000	89	954197	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.862	10.862	0.000	95	520261	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.300	5.300	0.000	94	316303	24.9	22.4	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.585	5.585	0.000	98	350962	24.9	23.0	
$ 6 Toluene-d8 (Surr)	98	7.245	7.245	0.000	93	1234654	24.9	24.1	
$ 7 4-Bromofluorobenzene (Surr)	95	9.711	9.712	-0.001	93	511535	24.9	27.6	
9 Dichlorodifluoromethane	85	1.719	1.719	0.000	99	312433	20.0	19.5	
10 Chloromethane	50	1.908	1.909	-0.001	99	435099	20.0	21.3	
11 Vinyl chloride	62	2.027	2.027	0.000	98	518304	20.0	23.6	
12 Butadiene	54	2.074	2.063	0.011	97	437197	20.0	22.6	
13 Bromomethane	94	2.371	2.383	-0.012	90	265567	20.0	18.9	
14 Chloroethane	64	2.489	2.490	-0.001	99	242365	20.0	20.8	
15 Dichlorofluoromethane	67	2.715	2.715	0.000	97	552037	20.0	22.2	
16 Trichlorofluoromethane	101	2.750	2.751	-0.001	98	478235	20.0	21.8	
17 Ethyl ether	59	3.023	3.023	0.000	90	224396	20.0	21.7	
18 Acrolein	56	3.165	3.166	-0.001	98	36703	100.0	47.5	
19 1,1-Dichloroethene	96	3.260	3.260	0.000	98	273768	20.0	20.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	151	3.272	3.272	0.000	91	238818	20.0	22.8	
21 Acetone	58	3.308	3.308	0.000	100	44561	40.0	38.5	
23 Iodomethane	142	3.414	3.415	-0.001	97	261047	20.0	12.7	
24 Carbon disulfide	76	3.474	3.474	0.000	99	830320	20.0	19.4	
27 Methyl acetate	43	3.592	3.592	0.000	96	321506	40.0	40.1	
26 3-Chloro-1-propene	41	3.616	3.604	0.012	89	402229	20.0	23.1	
28 Methylene Chloride	84	3.735	3.735	0.000	91	302930	20.0	19.2	
29 2-Methyl-2-propanol	59	3.818	3.806	0.012	100	203396	200.0	198.9	
30 Acrylonitrile	53	3.948	3.948	0.000	99	1028163	200.0	216.7	
31 Methyl tert-butyl ether	73	3.972	3.960	0.012	95	704848	20.0	19.2	
32 trans-1,2-Dichloroethene	96	3.984	3.984	0.000	99	317633	20.0	20.2	
33 Hexane	57	4.221	4.221	0.000	90	466560	20.0	27.2	
35 Vinyl acetate	43	4.363	4.363	0.000	97	422682	20.0	20.2	
34 1,1-Dichloroethane	63	4.375	4.375	0.000	96	526604	20.0	21.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	72	4.849	4.849	0.000	98	55498	40.0	36.3	
41 2,2-Dichloropropane	77	4.885	4.873	0.012	88	448577	20.0	21.5	
39 cis-1,2-Dichloroethene	96	4.873	4.873	0.000	82	339499	20.0	20.2	
45 Chlorobromomethane	128	5.075	5.075	0.000	95	151954	20.0	19.2	
46 Tetrahydrofuran	42	5.086	5.087	-0.001	85	129918	40.0	42.6	
47 Chloroform	83	5.158	5.158	0.000	94	509656	20.0	20.3	
48 1,1,1-Trichloroethane	97	5.312	5.312	0.000	98	446366	20.0	20.1	
49 Cyclohexane	56	5.371	5.371	0.000	88	545084	20.0	26.3	
51 Carbon tetrachloride	117	5.442	5.442	0.000	88	385553	20.0	19.6	
50 1,1-Dichloropropene	75	5.442	5.442	0.000	95	408864	20.0	20.8	
52 Isobutyl alcohol	41	5.502	5.502	0.000	94	155827	500.0	494.9	
54 Benzene	78	5.620	5.620	0.000	96	1204844	20.0	20.2	
53 1,2-Dichloroethane	62	5.656	5.656	0.000	97	374001	20.0	20.7	
56 n-Heptane	57	5.845	5.846	-0.001	87	277716	20.0	25.3	
58 Trichloroethene	130	6.177	6.178	-0.001	96	322768	20.0	18.2	
60 Methylcyclohexane	83	6.379	6.379	0.000	90	566799	20.0	23.2	
61 1,2-Dichloropropane	63	6.403	6.403	0.000	96	300881	20.0	22.3	
64 1,4-Dioxane	88	6.450	6.450	0.000	92	59096	400.0	372.1	
63 Dibromomethane	93	6.486	6.486	0.000	94	163180	20.0	19.1	
65 Dichlorobromomethane	83	6.628	6.628	0.000	99	369915	20.0	20.6	
67 2-Chloroethyl vinyl ether	63	6.853	6.854	-0.001	92	145082	20.0	17.4	
68 cis-1,3-Dichloropropene	75	7.008	7.008	0.000	95	436107	20.0	19.8	
69 4-Methyl-2-pentanone (MIBK)	43	7.126	7.126	0.000	95	366135	40.0	40.2	
70 Toluene	91	7.316	7.316	0.000	98	1258537	20.0	21.0	
71 trans-1,3-Dichloropropene	75	7.506	7.506	0.000	94	350571	20.0	18.8	
72 Ethyl methacrylate	69	7.541	7.541	0.000	88	251399	20.0	18.0	
73 1,1,2-Trichloroethane	97	7.695	7.696	-0.001	91	222257	20.0	19.5	
75 Tetrachloroethene	164	7.778	7.779	-0.001	98	260673	20.0	19.4	
74 1,3-Dichloropropane	76	7.850	7.850	0.000	87	419414	20.0	21.2	
76 2-Hexanone	43	7.873	7.873	0.000	95	256523	40.0	43.1	
78 Chlorodibromomethane	129	8.051	8.051	0.000	90	242071	20.0	19.0	
80 Ethylene Dibromide	107	8.170	8.158	0.012	100	223126	20.0	19.1	
82 Chlorobenzene	112	8.620	8.620	0.000	96	817514	20.0	19.9	
83 1,1,1,2-Tetrachloroethane	131	8.691	8.692	-0.001	95	257459	20.0	19.0	
84 Ethylbenzene	106	8.703	8.703	0.000	98	453382	20.0	20.3	
85 m-Xylene & p-Xylene	106	8.822	8.810	0.012	98	565137	20.0	20.6	
86 o-Xylene	106	9.190	9.190	0.000	96	539158	20.0	20.6	
87 Styrene	104	9.213	9.213	0.000	96	804921	20.0	18.7	
88 Bromoform	173	9.391	9.391	0.000	96	152393	20.0	17.6	
89 Isopropylbenzene	105	9.545	9.545	0.000	95	1426526	20.0	21.4	
92 1,1,2,2-Tetrachloroethane	83	9.842	9.842	0.000	94	262756	20.0	19.8	
93 Bromobenzene	156	9.865	9.866	-0.001	93	335111	20.0	19.4	
94 trans-1,4-Dichloro-2-butene	53	9.877	9.877	0.000	88	77733	20.0	20.5	
95 1,2,3-Trichloropropane	110	9.901	9.901	0.000	82	87736	20.0	18.7	
96 N-Propylbenzene	120	9.948	9.949	-0.001	99	417482	20.0	21.5	
97 2-Chlorotoluene	126	10.043	10.043	0.000	97	340398	20.0	20.8	
99 1,3,5-Trimethylbenzene	105	10.126	10.127	0.000	94	1099087	20.0	20.9	
100 4-Chlorotoluene	126	10.162	10.162	0.000	97	362796	20.0	21.4	
102 tert-Butylbenzene	119	10.435	10.435	0.000	93	1027792	20.0	21.3	
104 1,2,4-Trimethylbenzene	105	10.494	10.494	0.000	97	1087439	20.0	21.0	
105 sec-Butylbenzene	105	10.660	10.660	0.000	94	1540797	20.0	22.3	
106 1,3-Dichlorobenzene	146	10.790	10.791	-0.001	98	635696	20.0	19.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 4-Isopropyltoluene	119	10.802	10.802	0.000	97	1288052	20.0	21.6	
108 1,4-Dichlorobenzene	146	10.885	10.885	0.000	96	652584	20.0	19.6	
111 n-Butylbenzene	91	11.217	11.217	0.000	97	1133370	20.0	22.3	
112 1,2-Dichlorobenzene	146	11.241	11.241	0.000	98	572883	20.0	18.8	
113 1,2-Dibromo-3-Chloropropane	157	12.036	12.036	0.000	90	55380	20.0	18.4	
115 1,2,4-Trichlorobenzene	180	12.854	12.854	0.000	93	344160	20.0	19.7	
116 Hexachlorobutadiene	225	13.008	13.008	0.000	96	177947	20.0	20.1	
117 Naphthalene	128	13.138	13.139	-0.001	97	779436	20.0	20.0	
118 1,2,3-Trichlorobenzene	180	13.387	13.388	-0.001	95	311106	20.0	19.9	
S 134 Trihalomethanes, Total	1				0		80.0	77.5	
S 158 Total BTEX	1				0		100.0	102.8	
S 133 Xylenes, Total	106				0		40.0	41.2	

QC Flag Legend

Processing Flags

Reagents:

vmfaspw_00389	Amount Added: 16.00	Units: uL		
vmfasgw_00399	Amount Added: 16.00	Units: uL		
vmfasaw_00366	Amount Added: 16.00	Units: uL		
vm50is_stk_a_00008	Amount Added: 2.00	Units: uL	Run Reagent	
vmDist_H2o_00189	Amount Added: 0.00	Units:	Run Reagent	
vm50ss_stk_00086	Amount Added: 2.49	Units: uL	Run Reagent	

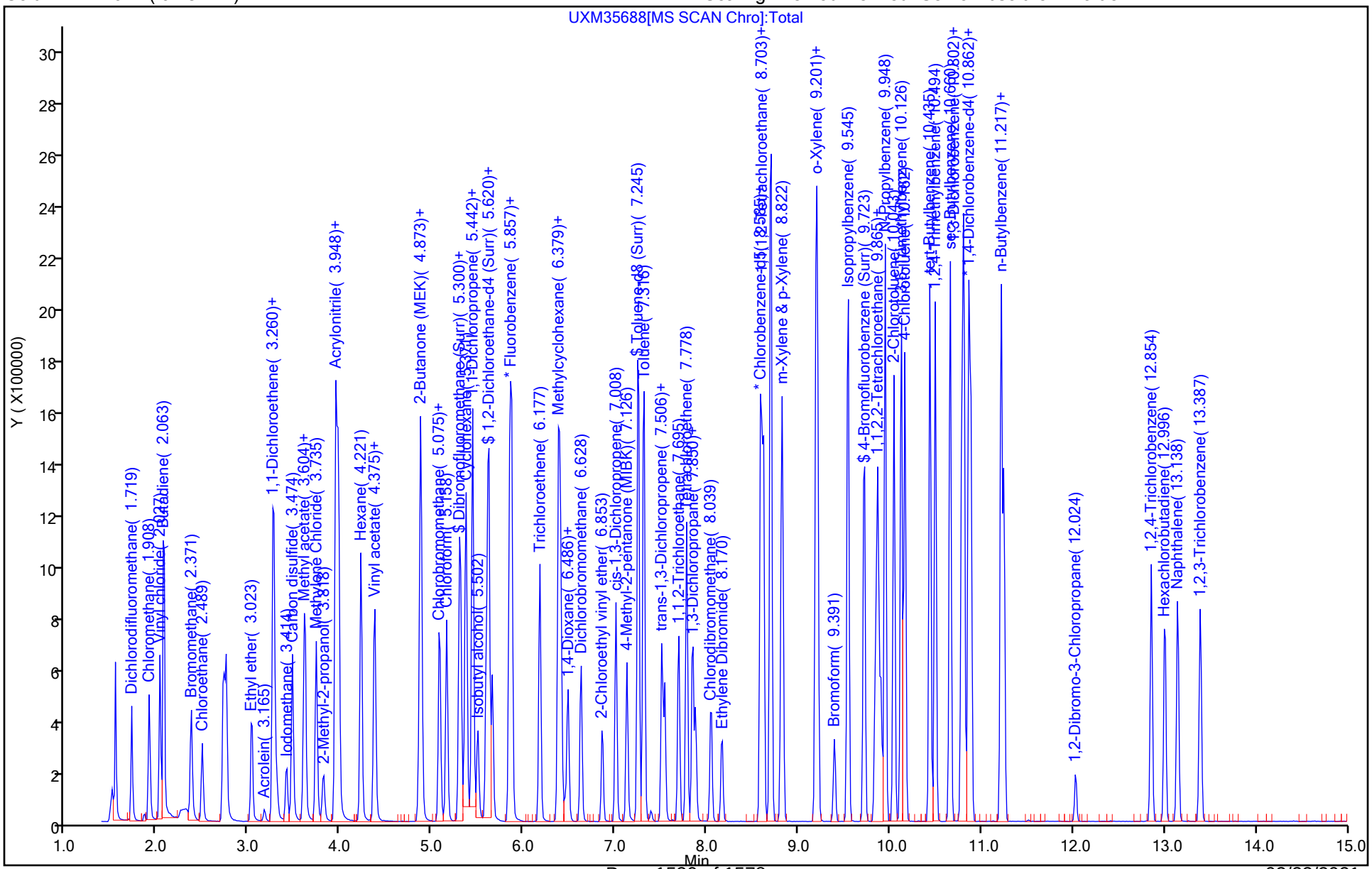
Report Date: 16-Mar-2021 14:18:07 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35688.D

Injection Date:	16-Mar-2021 13:32:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	LCSD			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\UXM35688.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 16-Mar-2021 13:32:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0107315-010
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromfs\Canton\ChromData\A3UX16\20210316-107315.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 16-Mar-2021 12:15:00 Calib Date: 08-Sep-2020 18:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX16\20200908-101704.b\UXM31037.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1613

First Level Reviewer: bosworthh Date: 16-Mar-2021 14:18:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	24.9	22.4	89.85
$ 5 1,2-Dichloroethane-d4 (Surr)	24.9	23.0	92.10
$ 6 Toluene-d8 (Surr)	24.9	24.1	96.57
$ 7 4-Bromofluorobenzene (Surr)	24.9	27.6	110.85

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: 240-145830-A-2 MS

Matrix: Water Lab File ID: UX994019.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 18:02

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	422		100	54
71-43-2	Benzene	185		10	1.3
108-86-1	Bromobenzene	184		10	1.2
75-27-4	Bromodichloromethane	181		10	1.7
75-25-2	Bromoform	180		10	7.6
74-83-9	Bromomethane	171		10	4.2
78-93-3	2-Butanone	445		100	12
75-15-0	Carbon disulfide	181		10	2.8
56-23-5	Carbon tetrachloride	174		10	2.6
108-90-7	Chlorobenzene	172		10	1.4
75-00-3	Chloroethane	176		10	8.3
67-66-3	Chloroform	175		10	1.3
74-87-3	Chloromethane	166		10	2.0
95-49-8	2-Chlorotoluene	172		10	1.5
106-43-4	4-Chlorotoluene	177		10	0.90
156-59-2	cis-1,2-Dichloroethene	181		10	1.6
10061-01-5	cis-1,3-Dichloropropene	188		10	6.1
124-48-1	Dibromochloromethane	170		10	3.9
96-12-8	1,2-Dibromo-3-Chloropropane	168		20	9.1
106-93-4	1,2-Dibromoethane	185		10	1.2
95-50-1	1,2-Dichlorobenzene	165		10	1.5
541-73-1	1,3-Dichlorobenzene	167		10	1.5
106-46-7	1,4-Dichlorobenzene	173		10	1.6
75-71-8	Dichlorodifluoromethane	152		10	3.5
75-34-3	1,1-Dichloroethane	179		10	1.7
107-06-2	1,2-Dichloroethane	174		10	2.1
75-35-4	1,1-Dichloroethene	173		10	1.9
78-87-5	1,2-Dichloropropane	193		10	1.5
100-41-4	Ethylbenzene	178		10	1.1
87-68-3	Hexachlorobutadiene	157		10	8.3
591-78-6	2-Hexanone	410		100	5.4
98-82-8	Isopropylbenzene	170		10	0.90
75-09-2	Methylene Chloride	163		50	26
108-10-1	4-Methyl-2-pentanone	394		100	4.2
1634-04-4	Methyl tert-butyl ether	185		10	0.70
179601-23-1	m-Xylene & p-Xylene	175		20	0.80

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: 240-145830-A-2 MS

Matrix: Water Lab File ID: UX994019.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 18:02

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	166		10	3.2
104-51-8	n-Butylbenzene	161		10	1.4
103-65-1	n-Propylbenzene	175		10	1.5
95-47-6	o-Xylene	173		10	0.90
99-87-6	p-Isopropyltoluene	169		10	1.3
135-98-8	sec-Butylbenzene	171		10	1.3
100-42-5	Styrene	181		10	1.0
98-06-6	tert-Butylbenzene	161		10	1.4
79-34-5	1,1,2,2-Tetrachloroethane	190		10	1.3
127-18-4	Tetrachloroethene	171		10	1.5
108-88-3	Toluene	173		10	1.4
156-60-5	trans-1,2-Dichloroethene	182		10	1.9
10061-02-6	trans-1,3-Dichloropropene	171		10	6.7
87-61-6	1,2,3-Trichlorobenzene	160		10	5.4
120-82-1	1,2,4-Trichlorobenzene	159		10	2.6
71-55-6	1,1,1-Trichloroethane	174		10	2.4
79-01-6	Trichloroethene	545		10	1.0
75-69-4	Trichlorofluoromethane	161		10	4.5
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	185		10	4.1
95-63-6	1,2,4-Trimethylbenzene	173		10	0.70
75-01-4	Vinyl chloride	180		10	2.0
1330-20-7	Xylenes, Total	348		20	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	118		47-134
1868-53-7	Dibromofluoromethane (Surr)	92		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	99		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994019.D
Lims ID: 240-145830-A-2 MS
Client ID:
Sample Type: MS
Inject. Date: 17-Mar-2021 18:02:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 240-0107352-029
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 18-Mar-2021 09:26:36 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: bosworthh Date: 18-Mar-2021 09:31:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.868	5.866	0.002	99	1453142	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.565	8.564	0.001	86	1163386	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.814	10.812	0.002	94	633109	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.274	0.002	93	310574	16.2	15.0	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.572	5.570	0.002	100	382599	16.2	14.8	
$ 6 Toluene-d8 (Surr)	98	7.252	7.250	0.002	92	1240137	16.2	16.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.678	9.676	0.002	89	518554	16.2	19.2	
9 Dichlorodifluoromethane	85	1.762	1.772	-0.010	100	373206	20.0	15.2	
10 Chloromethane	50	1.975	1.985	-0.010	99	398101	20.0	16.6	
11 Vinyl chloride	62	2.093	2.103	-0.010	99	422737	20.0	18.0	
13 Bromomethane	94	2.460	2.470	-0.010	91	338284	20.0	17.1	
15 Chloroethane	64	2.554	2.564	-0.010	99	309006	20.0	17.6	
17 Trichlorofluoromethane	101	2.815	2.825	-0.010	99	617396	20.0	16.1	
24 1,1-Dichloroethene	61	3.300	3.298	0.002	98	501901	20.0	17.3	
23 Acetone	58	3.335	3.333	0.002	99	91492	40.0	42.2	
22 112TCTFE	101	3.324	3.345	-0.021	97	321129	20.0	18.5	
26 Carbon disulfide	76	3.525	3.535	-0.010	99	925338	20.0	18.1	
29 Methyl acetate	43	3.643	3.641	0.002	96	755555	40.0	35.8	
30 Methylene Chloride	49	3.738	3.736	0.002	89	429473	20.0	16.3	
33 Methyl tert-butyl ether	73	3.998	3.996	0.002	94	1234864	20.0	18.5	
34 trans-1,2-Dichloroethene	61	3.998	3.996	0.002	96	501975	20.0	18.2	
36 1,1-Dichloroethane	63	4.365	4.363	0.002	96	628131	20.0	17.9	
43 cis-1,2-Dichloroethene	96	4.874	4.872	0.002	81	441806	20.0	18.1	
41 2-Butanone (MEK)	72	4.874	4.872	0.002	82	149896	40.0	44.5	
49 Chloroform	83	5.134	5.132	0.002	95	662159	20.0	17.5	
50 1,1,1-Trichloroethane	97	5.323	5.321	0.002	98	564768	20.0	17.4	
51 Cyclohexane	84	5.382	5.381	0.001	86	512279	20.0	18.9	
53 Carbon tetrachloride	117	5.465	5.463	0.002	98	468877	20.0	17.4	
56 1,2-Dichloroethane	62	5.643	5.629	0.014	60	545872	20.0	17.4	
55 Benzene	78	5.643	5.641	0.002	95	1514124	20.0	18.5	
60 Trichloroethene	130	6.187	6.185	0.002	97	1254929	20.0	54.5	
62 Methylcyclohexane	83	6.365	6.363	0.002	87	466090	20.0	18.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
63 1,2-Dichloropropane	63	6.376	6.375	0.001	93	339704	20.0	19.3	
67 Dichlorobromomethane	83	6.601	6.599	0.002	100	483205	20.0	18.1	
71 cis-1,3-Dichloropropene	75	6.992	6.990	0.002	96	580439	20.0	18.8	
72 4-Methyl-2-pentanone (MIBK)	43	7.122	7.108	0.014	94	938948	40.0	39.4	
73 Toluene	91	7.311	7.309	0.002	99	1545097	20.0	17.3	
74 trans-1,3-Dichloropropene	75	7.477	7.475	0.002	93	518556	20.0	17.1	
76 1,1,2-Trichloroethane	97	7.654	7.652	0.002	92	339225	20.0	18.1	
78 Tetrachloroethene	166	7.808	7.806	0.002	96	361624	20.0	17.1	
80 2-Hexanone	43	7.855	7.854	0.001	94	679797	40.0	41.0	
82 Chlorodibromomethane	129	8.021	8.019	0.002	90	336523	20.0	17.0	
83 Ethylene Dibromide	107	8.139	8.138	0.001	99	368991	20.0	18.5	
85 Chlorobenzene	112	8.589	8.599	-0.010	96	993524	20.0	17.2	
87 Ethylbenzene	106	8.684	8.682	0.002	98	528844	20.0	17.8	
88 m-Xylene & p-Xylene	106	8.802	8.800	0.002	100	646651	20.0	17.5	
89 o-Xylene	106	9.181	9.179	0.002	95	657686	20.0	17.3	
90 Styrene	104	9.181	9.179	0.002	91	972073	20.0	18.1	
91 Bromoform	173	9.370	9.368	0.002	96	223805	20.0	18.0	
92 Isopropylbenzene	105	9.524	9.522	0.002	95	1570791	20.0	17.0	
94 1,1,2,2-Tetrachloroethane	83	9.796	9.794	0.002	97	531697	20.0	19.0	
95 Bromobenzene	156	9.832	9.842	-0.010	96	422655	20.0	18.4	
98 N-Propylbenzene	120	9.926	9.924	0.002	99	414821	20.0	17.5	
100 2-Chlorotoluene	126	10.021	10.019	0.002	97	384911	20.0	17.2	
101 1,3,5-Trimethylbenzene	105	10.092	10.090	0.002	94	1244937	20.0	17.1	
102 4-Chlorotoluene	126	10.127	10.126	0.001	97	398708	20.0	17.7	
104 tert-Butylbenzene	119	10.411	10.421	-0.010	91	1048524	20.0	16.1	
106 1,2,4-Trimethylbenzene	105	10.459	10.457	0.002	94	1306666	20.0	17.3	
107 sec-Butylbenzene	134	10.636	10.634	0.002	94	299087	20.0	17.1	
108 1,3-Dichlorobenzene	146	10.755	10.753	0.002	98	752113	20.0	16.7	
109 4-Isopropyltoluene	119	10.766	10.764	0.002	97	1225662	20.0	16.9	
110 1,4-Dichlorobenzene	146	10.837	10.835	0.002	95	797747	20.0	17.3	
113 n-Butylbenzene	91	11.180	11.179	0.001	96	943515	20.0	16.1	
114 1,2-Dichlorobenzene	146	11.216	11.214	0.002	98	768739	20.0	16.5	
115 1,2-Dibromo-3-Chloropropane	157	11.973	11.971	0.002	85	137447	20.0	16.8	
117 1,2,4-Trichlorobenzene	180	12.825	12.823	0.002	94	432898	20.0	15.9	
118 Hexachlorobutadiene	225	13.003	13.001	0.002	97	132664	20.0	15.7	
119 Naphthalene	128	13.086	13.084	0.002	97	1638201	20.0	16.6	
120 1,2,3-Trichlorobenzene	180	13.358	13.356	0.002	95	413043	20.0	16.0	
121 2-Methylnaphthalene	142		14.502					ND	
S 131 Xylenes, Total	106				0		40.0	34.8	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00399	Amount Added:	16.00	Units: uL	
vmfasaw_00366	Amount Added:	16.00	Units: uL	
vmfaspw_00390	Amount Added:	16.00	Units: uL	
vm100is_stk_a_00006	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm100ss_stk_00033	Amount Added:	0.81	Units: uL	Run Reagent

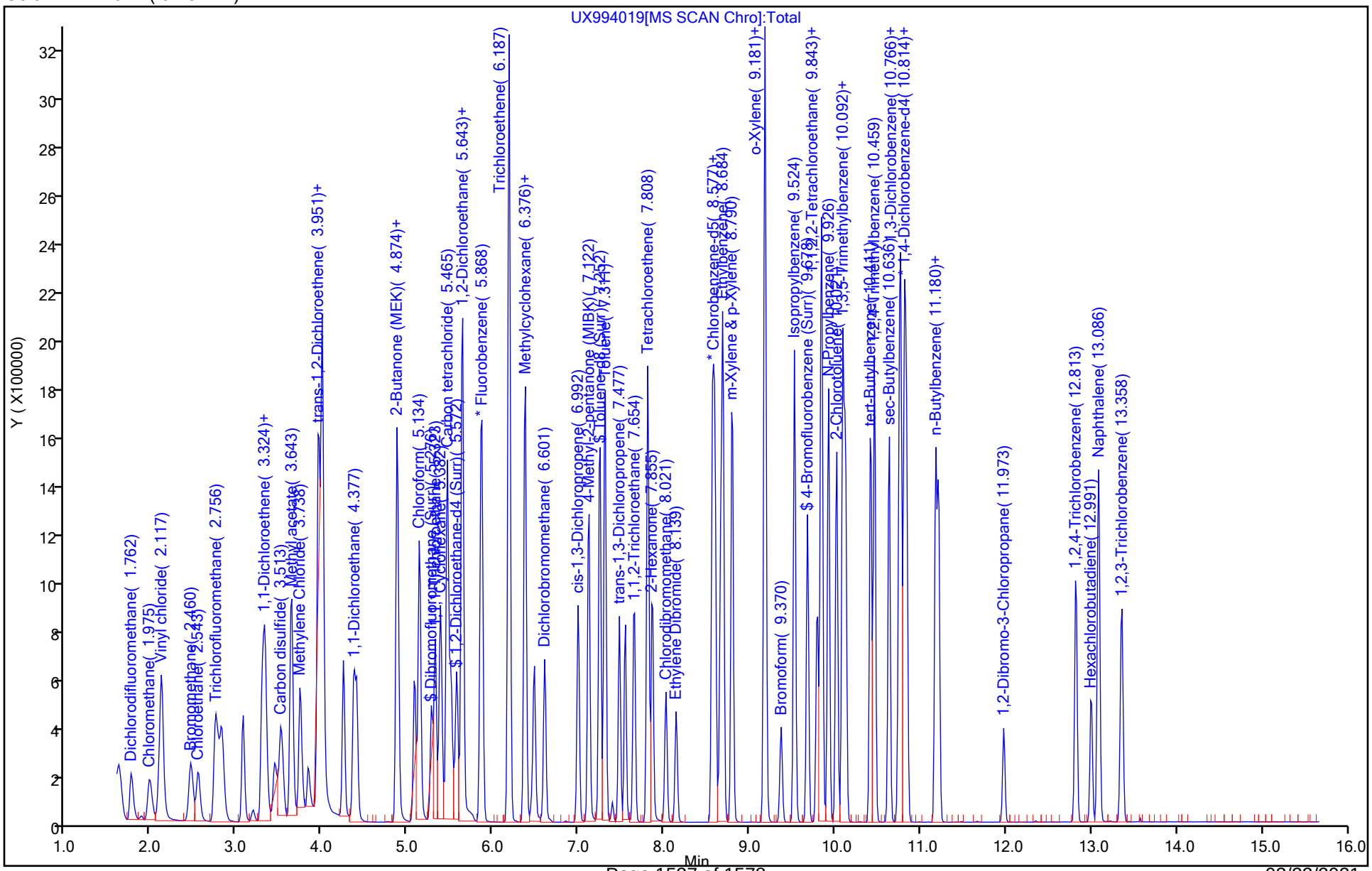
Report Date: 18-Mar-2021 09:31:16 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994019.D

Injection Date:	17-Mar-2021 18:02:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-145830-A-2 MS			Worklist Smp#:	29
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	29
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994019.D
Lims ID: 240-145830-A-2 MS
Client ID:
Sample Type: MS
Inject. Date: 17-Mar-2021 18:02:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 240-0107352-029
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 18-Mar-2021 09:26:36 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: bosworthh Date: 18-Mar-2021 09:31:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	16.2	15.0	92.27
$ 5 1,2-Dichloroethane-d4 (Surr)	16.2	14.8	91.06
$ 6 Toluene-d8 (Surr)	16.2	16.0	98.80
$ 7 4-Bromofluorobenzene (Surr)	16.2	19.2	118.26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: 240-145830-A-2 MSD

Matrix: Water Lab File ID: UX994020.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 18:25

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	458		100	54
71-43-2	Benzene	197		10	1.3
108-86-1	Bromobenzene	198		10	1.2
75-27-4	Bromodichloromethane	197		10	1.7
75-25-2	Bromoform	203		10	7.6
74-83-9	Bromomethane	160		10	4.2
78-93-3	2-Butanone	470		100	12
75-15-0	Carbon disulfide	199		10	2.8
56-23-5	Carbon tetrachloride	187		10	2.6
108-90-7	Chlorobenzene	189		10	1.4
75-00-3	Chloroethane	167		10	8.3
67-66-3	Chloroform	188		10	1.3
74-87-3	Chloromethane	161		10	2.0
95-49-8	2-Chlorotoluene	183		10	1.5
106-43-4	4-Chlorotoluene	189		10	0.90
156-59-2	cis-1,2-Dichloroethene	193		10	1.6
10061-01-5	cis-1,3-Dichloropropene	206		10	6.1
124-48-1	Dibromochloromethane	191		10	3.9
96-12-8	1,2-Dibromo-3-Chloropropane	179		20	9.1
106-93-4	1,2-Dibromoethane	202		10	1.2
95-50-1	1,2-Dichlorobenzene	173		10	1.5
541-73-1	1,3-Dichlorobenzene	179		10	1.5
106-46-7	1,4-Dichlorobenzene	185		10	1.6
75-71-8	Dichlorodifluoromethane	148		10	3.5
75-34-3	1,1-Dichloroethane	193		10	1.7
107-06-2	1,2-Dichloroethane	186		10	2.1
75-35-4	1,1-Dichloroethene	186		10	1.9
78-87-5	1,2-Dichloropropane	208		10	1.5
100-41-4	Ethylbenzene	190		10	1.1
87-68-3	Hexachlorobutadiene	170		10	8.3
591-78-6	2-Hexanone	457		100	5.4
98-82-8	Isopropylbenzene	181		10	0.90
75-09-2	Methylene Chloride	175		50	26
108-10-1	4-Methyl-2-pentanone	425		100	4.2
1634-04-4	Methyl tert-butyl ether	196		10	0.70
179601-23-1	m-Xylene & p-Xylene	192		20	0.80

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Client Sample ID: Lab Sample ID: 240-145830-A-2 MSD

Matrix: Water Lab File ID: UX994020.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/17/2021 18:25

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 477127 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	169		10	3.2
104-51-8	n-Butylbenzene	173		10	1.4
103-65-1	n-Propylbenzene	186		10	1.5
95-47-6	o-Xylene	186		10	0.90
99-87-6	p-Isopropyltoluene	178		10	1.3
135-98-8	sec-Butylbenzene	181		10	1.3
100-42-5	Styrene	199		10	1.0
98-06-6	tert-Butylbenzene	194		10	1.4
79-34-5	1,1,2,2-Tetrachloroethane	202		10	1.3
127-18-4	Tetrachloroethene	185		10	1.5
108-88-3	Toluene	187		10	1.4
156-60-5	trans-1,2-Dichloroethene	192		10	1.9
10061-02-6	trans-1,3-Dichloropropene	189		10	6.7
87-61-6	1,2,3-Trichlorobenzene	162		10	5.4
120-82-1	1,2,4-Trichlorobenzene	164		10	2.6
71-55-6	1,1,1-Trichloroethane	186		10	2.4
79-01-6	Trichloroethene	524		10	1.0
75-69-4	Trichlorofluoromethane	154		10	4.5
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	191		10	4.1
95-63-6	1,2,4-Trimethylbenzene	186		10	0.70
75-01-4	Vinyl chloride	172		10	2.0
1330-20-7	Xylenes, Total	378		20	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	120		47-134
1868-53-7	Dibromofluoromethane (Surr)	90		78-129
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
2037-26-5	Toluene-d8 (Surr)	101		69-122

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994020.D
Lims ID: 240-145830-A-2 MSD
Client ID:
Sample Type: MSD
Inject. Date: 17-Mar-2021 18:25:30 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 240-0107352-030
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 18-Mar-2021 09:26:36 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: bosworthh Date: 18-Mar-2021 09:31:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.868	5.866	0.002	99	1504678	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.566	8.564	0.002	85	1216646	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.814	10.812	0.002	93	670124	20.0	20.0	
$ 4 Dibromofluoromethane (Surr)	113	5.276	5.274	0.002	93	314788	16.2	14.7	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.572	5.570	0.002	100	397230	16.2	14.8	
$ 6 Toluene-d8 (Surr)	98	7.252	7.250	0.002	92	1327279	16.2	16.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.678	9.676	0.002	90	550347	16.2	19.5	
9 Dichlorodifluoromethane	85	1.762	1.772	-0.010	100	376417	20.0	14.8	
10 Chloromethane	50	1.987	1.985	0.002	100	398833	20.0	16.1	
11 Vinyl chloride	62	2.105	2.103	0.002	99	418640	20.0	17.2	
13 Bromomethane	94	2.460	2.470	-0.010	91	328590	20.0	16.0	
15 Chloroethane	64	2.555	2.564	-0.009	99	304198	20.0	16.7	
17 Trichlorofluoromethane	101	2.815	2.825	-0.010	99	611868	20.0	15.4	
24 1,1-Dichloroethene	61	3.300	3.298	0.002	98	561415	20.0	18.6	
23 Acetone	58	3.336	3.333	0.003	77	102634	40.0	45.8	
22 112TCTFE	101	3.336	3.345	-0.009	93	343722	20.0	19.1	
26 Carbon disulfide	76	3.513	3.535	-0.022	99	1056167	20.0	19.9	
29 Methyl acetate	43	3.643	3.641	0.002	96	833607	40.0	38.1	
30 Methylene Chloride	49	3.738	3.736	0.002	88	476563	20.0	17.5	
33 Methyl tert-butyl ether	73	3.998	3.996	0.002	94	1354783	20.0	19.6	
34 trans-1,2-Dichloroethene	61	3.998	3.996	0.002	61	550943	20.0	19.2	
36 1,1-Dichloroethane	63	4.365	4.363	0.002	96	699792	20.0	19.3	
43 cis-1,2-Dichloroethene	96	4.874	4.872	0.002	81	489115	20.0	19.3	
41 2-Butanone (MEK)	72	4.874	4.872	0.002	77	163760	40.0	47.0	
49 Chloroform	83	5.134	5.132	0.002	94	737806	20.0	18.8	
50 1,1,1-Trichloroethane	97	5.324	5.321	0.003	98	623668	20.0	18.6	
51 Cyclohexane	84	5.383	5.381	0.002	85	579535	20.0	20.7	
53 Carbon tetrachloride	117	5.466	5.463	0.003	97	523171	20.0	18.7	
56 1,2-Dichloroethane	62	5.631	5.629	0.002	60	605869	20.0	18.6	
55 Benzene	78	5.643	5.641	0.002	95	1666823	20.0	19.7	
60 Trichloroethene	130	6.187	6.185	0.002	97	1248419	20.0	52.4	
62 Methylcyclohexane	83	6.365	6.363	0.002	87	512912	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
63 1,2-Dichloropropane	63	6.377	6.375	0.002	91	379725	20.0	20.8	
67 Dichlorobromomethane	83	6.602	6.599	0.003	100	546065	20.0	19.7	
71 cis-1,3-Dichloropropene	75	6.992	6.990	0.002	96	658798	20.0	20.6	
72 4-Methyl-2-pentanone (MIBK)	43	7.110	7.108	0.002	94	1049741	40.0	42.5	
73 Toluene	91	7.311	7.309	0.002	99	1742557	20.0	18.7	
74 trans-1,3-Dichloropropene	75	7.477	7.475	0.002	93	598495	20.0	18.9	
76 1,1,2-Trichloroethane	97	7.643	7.652	-0.009	93	390467	20.0	19.9	
78 Tetrachloroethene	166	7.808	7.806	0.002	72	408790	20.0	18.5	
80 2-Hexanone	43	7.856	7.854	0.002	94	793538	40.0	45.7	
82 Chlorodibromomethane	129	8.021	8.019	0.002	90	393850	20.0	19.1	
83 Ethylene Dibromide	107	8.140	8.138	0.002	100	421181	20.0	20.2	
85 Chlorobenzene	112	8.589	8.599	-0.010	95	1140548	20.0	18.9	
87 Ethylbenzene	106	8.684	8.682	0.002	98	589753	20.0	19.0	
88 m-Xylene & p-Xylene	106	8.791	8.800	-0.009	99	743105	20.0	19.2	
89 o-Xylene	106	9.181	9.179	0.002	88	737989	20.0	18.6	
90 Styrene	104	9.181	9.179	0.002	88	1120256	20.0	19.9	
91 Bromoform	173	9.370	9.368	0.002	97	264396	20.0	20.3	
92 Isopropylbenzene	105	9.524	9.522	0.002	95	1755914	20.0	18.1	
94 1,1,2,2-Tetrachloroethane	83	9.785	9.794	-0.009	97	597873	20.0	20.2	
95 Bromobenzene	156	9.832	9.842	-0.010	95	481725	20.0	19.8	
98 N-Propylbenzene	120	9.927	9.924	0.003	99	466266	20.0	18.6	
100 2-Chlorotoluene	126	10.021	10.019	0.002	97	433219	20.0	18.3	
101 1,3,5-Trimethylbenzene	105	10.092	10.090	0.002	94	1409518	20.0	18.3	
102 4-Chlorotoluene	126	10.128	10.126	0.002	97	450781	20.0	18.9	
104 tert-Butylbenzene	119	10.412	10.421	-0.009	92	1330836	20.0	19.4	
106 1,2,4-Trimethylbenzene	105	10.459	10.457	0.002	97	1486096	20.0	18.6	
107 sec-Butylbenzene	134	10.637	10.634	0.002	94	333467	20.0	18.1	
108 1,3-Dichlorobenzene	146	10.755	10.753	0.002	98	850951	20.0	17.9	
109 4-Isopropyltoluene	119	10.767	10.764	0.003	97	1371336	20.0	17.8	
110 1,4-Dichlorobenzene	146	10.838	10.835	0.003	95	901140	20.0	18.5	
113 n-Butylbenzene	91	11.181	11.179	0.002	96	1077240	20.0	17.3	
114 1,2-Dichlorobenzene	146	11.216	11.214	0.002	98	851525	20.0	17.3	
115 1,2-Dibromo-3-Chloropropane	157	11.974	11.971	0.003	87	154773	20.0	17.9	
117 1,2,4-Trichlorobenzene	180	12.814	12.823	-0.009	94	471786	20.0	16.4	
118 Hexachlorobutadiene	225	13.003	13.001	0.002	97	151944	20.0	17.0	
119 Naphthalene	128	13.086	13.084	0.002	97	1766728	20.0	16.9	
120 1,2,3-Trichlorobenzene	180	13.358	13.356	0.002	96	443435	20.0	16.2	
121 2-Methylnaphthalene	142		14.502					ND	
S 131 Xylenes, Total	106				0		40.0	37.8	

QC Flag Legend

Processing Flags

Reagents:

vmfasgw_00399	Amount Added:	16.00	Units: uL	
vmfasaw_00366	Amount Added:	16.00	Units: uL	
vmfaspw_00390	Amount Added:	16.00	Units: uL	
vm100is_stk_a_00006	Amount Added:	1.00	Units: uL	Run Reagent
vmDist_H2o_00189	Amount Added:	0.00	Units:	Run Reagent
vm40ml_vials_00015	Amount Added:	0.00	Units:	Run Reagent
vm100ss_stk_00033	Amount Added:	0.81	Units: uL	Run Reagent

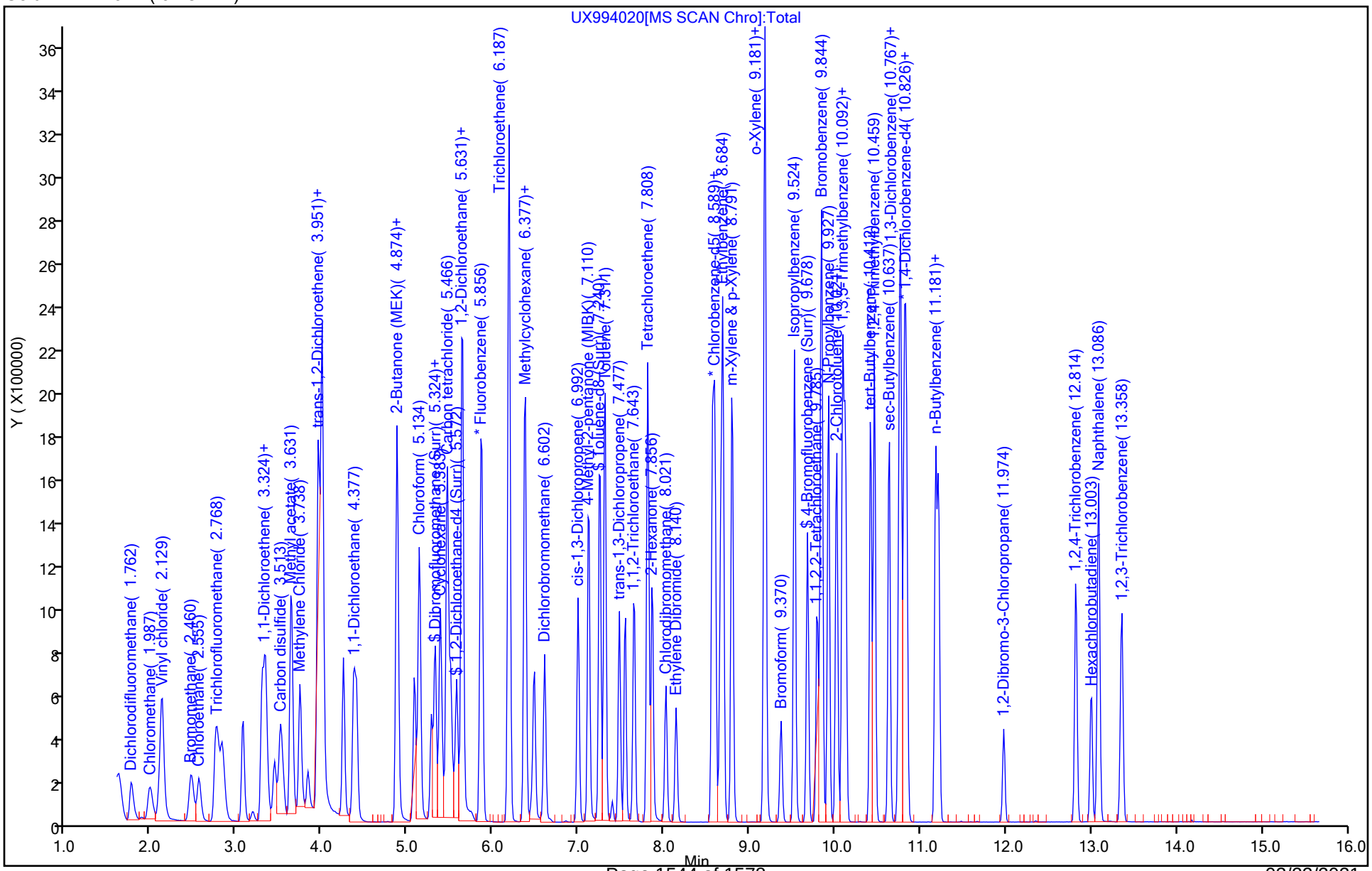
Report Date: 18-Mar-2021 09:31:58 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins TestAmerica, Canton

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994020.D

Injection Date:	17-Mar-2021 18:25:30	Instrument ID:	A3UX9	Operator ID:	001765
Lims ID:	240-145830-A-2 MSD			Worklist Smp#:	30
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	30
Method:	8260_9	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm)



Eurofins TestAmerica, Canton
Recovery Report

Data File: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\UX994020.D
Lims ID: 240-145830-A-2 MSD
Client ID:
Sample Type: MSD
Inject. Date: 17-Mar-2021 18:25:30 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 240-0107352-030
Operator ID: 001765 Instrument ID: A3UX9

Method: \\chromfs\Canton\ChromData\A3UX9\20210317-107352.b\8260_9.m
Limit Group: MSV 8260C ICAL
Last Update: 18-Mar-2021 09:26:36 Calib Date: 07-Jan-2021 18:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Canton\ChromData\A3UX9\20210107-105494.b\UX992614.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1644

First Level Reviewer: bosworthh Date: 18-Mar-2021 09:31:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	16.2	14.7	90.31
$ 5 1,2-Dichloroethane-d4 (Surr)	16.2	14.8	91.30
$ 6 Toluene-d8 (Surr)	16.2	16.4	101.11
$ 7 4-Bromofluorobenzene (Surr)	16.2	19.5	120.01

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 Start Date: 07/25/2018 11:28

Analysis Batch Number: 337917 End Date: 07/25/2018 19:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-337917/1		07/25/2018 11:28	1	bfb037.d	DB-624 0.18(mm)
CCVIS 240-337917/3		07/25/2018 12:17	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 12:39	1		DB-624 0.18(mm)
STDA9 240-337917/8 IC		07/25/2018 13:24	1	U1900802.d	DB-624 0.18(mm)
STDA9 240-337917/9 IC		07/25/2018 13:46	1	U1900803.d	DB-624 0.18(mm)
STDA9 240-337917/10 IC		07/25/2018 14:08	1	U1900804.d	DB-624 0.18(mm)
STDA9 240-337917/11 IC		07/25/2018 14:30	1	U1900805.d	DB-624 0.18(mm)
STDA9 240-337917/12 IC		07/25/2018 14:52	1	U1900806.d	DB-624 0.18(mm)
STDA9 240-337917/13 IC		07/25/2018 15:15	1	U1900807.d	DB-624 0.18(mm)
ICV 240-337917/14		07/25/2018 15:37	1		DB-624 0.18(mm)
MRL 240-337917/15 MDLV		07/25/2018 15:59	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 16:21	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 16:44	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 17:06	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 17:29	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 17:51	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 18:13	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 18:35	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 18:57	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 19:20	1		DB-624 0.18(mm)
ZZZZZ		07/25/2018 19:42	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 Start Date: 08/27/2018 16:23

Analysis Batch Number: 342719 End Date: 08/27/2018 20:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-342719/1		08/27/2018 16:23	1	bfb058.d	DB-624 0.18(mm)
CCV 240-342719/2		08/27/2018 16:46	1		DB-624 0.18(mm)
STD8260 240-342719/7 IC		08/27/2018 17:09	1	U1901323.d	DB-624 0.18(mm)
STD8260 240-342719/8 IC		08/27/2018 17:31	1	U1901324.d	DB-624 0.18(mm)
STD8260 240-342719/9 IC		08/27/2018 17:53	1	U1901325.d	DB-624 0.18(mm)
ICIS 240-342719/10		08/27/2018 18:16	1	U1901326.d	DB-624 0.18(mm)
STD8260 240-342719/11 IC		08/27/2018 18:38	1	U1901327.d	DB-624 0.18(mm)
STD8260 240-342719/12 IC		08/27/2018 19:01	1	U1901328.d	DB-624 0.18(mm)
STD8260 240-342719/13 IC		08/27/2018 19:23	1	U1901329.d	DB-624 0.18(mm)
ICV 240-342719/14		08/27/2018 19:45	1	U1901330.d	DB-624 0.18(mm)
MRL 240-342719/15 MDLV		08/27/2018 20:07	1		DB-624 0.18(mm)
MDLV 240-342719/16		08/27/2018 20:30	1		DB-624 0.18(mm)
ZZZZZ		08/27/2018 20:52	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 Start Date: 09/08/2020 11:23

Analysis Batch Number: 450378 End Date: 09/08/2020 18:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-450378/1		09/08/2020 11:23	1	BFB6489.D	DB-624 0.18(mm)
STD8260 240-450378/9 IC		09/08/2020 12:22	1	UXM31022.D	DB-624 0.18(mm)
STD8260 240-450378/10 IC		09/08/2020 12:47	1	UXM31023.D	DB-624 0.18(mm)
STD8260 240-450378/11 IC		09/08/2020 13:12	1	UXM31024.D	DB-624 0.18(mm)
ICIS 240-450378/12		09/08/2020 13:36	1	UXM31025.D	DB-624 0.18(mm)
STD8260 240-450378/13 IC		09/08/2020 14:01	1	UXM31026.D	DB-624 0.18(mm)
STD8260 240-450378/14 IC		09/08/2020 14:26	1	UXM31027.D	DB-624 0.18(mm)
STD8260 240-450378/15 IC		09/08/2020 14:50	1	UXM31028.D	DB-624 0.18(mm)
ICV 240-450378/16		09/08/2020 15:15	1	UXM31029.D	DB-624 0.18(mm)
STDA9 240-450378/19 IC		09/08/2020 16:30	1	UXM31032.D	DB-624 0.18(mm)
STDA9 240-450378/20 IC		09/08/2020 16:55	1	UXM31033.D	DB-624 0.18(mm)
STDA9 240-450378/21 IC		09/08/2020 17:19	1	UXM31034.D	DB-624 0.18(mm)
STDA9 240-450378/22 IC		09/08/2020 17:44	1	UXM31035.D	DB-624 0.18(mm)
STDA9 240-450378/23 IC		09/08/2020 18:09	1	UXM31036.D	DB-624 0.18(mm)
STDA9 240-450378/24 IC		09/08/2020 18:33	1	UXM31037.D	DB-624 0.18(mm)
ICV 240-450378/25		09/08/2020 18:58	1	UXM31038.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 Start Date: 01/07/2021 11:58

Analysis Batch Number: 468309 End Date: 01/07/2021 18:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-468309/2		01/07/2021 11:58	1	BFB1164.D	DB-624 0.18(mm)
STD8260 240-468309/8 IC		01/07/2021 12:44	1	UX992599.D	DB-624 0.18(mm)
STD8260 240-468309/9 IC		01/07/2021 13:07	1	UX992600.D	DB-624 0.18(mm)
STD8260 240-468309/10 IC		01/07/2021 13:29	1	UX992601.D	DB-624 0.18(mm)
ICIS 240-468309/11		01/07/2021 13:52	1	UX992602.D	DB-624 0.18(mm)
STD8260 240-468309/12 IC		01/07/2021 14:14	1	UX992603.D	DB-624 0.18(mm)
STD8260 240-468309/13 IC		01/07/2021 14:37	1	UX992604.D	DB-624 0.18(mm)
STD8260 240-468309/14 IC		01/07/2021 14:59	1	UX992605.D	DB-624 0.18(mm)
ICV 240-468309/15		01/07/2021 15:22	1	UX992606.D	DB-624 0.18(mm)
STDA9 240-468309/18 IC		01/07/2021 16:28	1	UX992609.D	DB-624 0.18(mm)
STDA9 240-468309/19 IC		01/07/2021 16:51	1	UX992610.D	DB-624 0.18(mm)
STDA9 240-468309/20 IC		01/07/2021 17:13	1	UX992611.D	DB-624 0.18(mm)
STDA9 240-468309/21 IC		01/07/2021 17:36	1	UX992612.D	DB-624 0.18(mm)
STDA9 240-468309/22 IC		01/07/2021 17:58	1	UX992613.D	DB-624 0.18(mm)
STDA9 240-468309/23 IC		01/07/2021 18:20	1	UX992614.D	DB-624 0.18(mm)
ICV 240-468309/24		01/07/2021 18:43	1	UX992615.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 Start Date: 03/11/2021 08:44

Analysis Batch Number: 476369 End Date: 03/11/2021 18:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-476369/1		03/11/2021 08:44	1	BFB6644.D	DB-624 0.18(mm)
CCVIS 240-476369/3		03/11/2021 09:08	1	UXM35608.D	DB-624 0.18(mm)
CCV 240-476369/4		03/11/2021 09:32	1	UXM35609.D	DB-624 0.18(mm)
LCS 240-476369/5		03/11/2021 09:57	1	UXM35610.D	DB-624 0.18(mm)
MRL 240-476369/6 MDLV		03/11/2021 10:22	1		DB-624 0.18(mm)
MRL 240-476369/7 MDLV		03/11/2021 10:46	1		DB-624 0.18(mm)
MB 240-476369/8		03/11/2021 11:11	1	UXM35613.D	DB-624 0.18(mm)
MRL 240-476369/9 MDLV		03/11/2021 11:36	1		DB-624 0.18(mm)
LCSD 240-476369/10		03/11/2021 12:00	1	UXM35615.D	DB-624 0.18(mm)
240-145599-1	MSA-SW37A-030821	03/11/2021 12:25	1	UXM35616.D	DB-624 0.18(mm)
240-145599-2	MSA-SW37B-030821	03/11/2021 12:49	1	UXM35617.D	DB-624 0.18(mm)
240-145599-3	MSA-SW37C-030821	03/11/2021 13:24	1	UXM35618.D	DB-624 0.18(mm)
240-145599-4	MSA-SW37D-030821	03/11/2021 13:48	1	UXM35619.D	DB-624 0.18(mm)
240-145599-5	MSA-SW38A-030821	03/11/2021 14:13	1	UXM35620.D	DB-624 0.18(mm)
240-145599-6	MSA-SW38B-030821	03/11/2021 14:37	1	UXM35621.D	DB-624 0.18(mm)
240-145599-7	MSA-SW38C-030821	03/11/2021 15:02	1	UXM35622.D	DB-624 0.18(mm)
240-145599-8	MSA-SW38D-030821	03/11/2021 15:27	1	UXM35623.D	DB-624 0.18(mm)
240-145599-9	MSA-SW40A-030821	03/11/2021 15:51	1	UXM35624.D	DB-624 0.18(mm)
240-145599-10	MSA-SW40B-030821	03/11/2021 16:16	1	UXM35625.D	DB-624 0.18(mm)
240-145599-11	MSA-SW40C-030821	03/11/2021 16:41	1	UXM35626.D	DB-624 0.18(mm)
240-145599-12	MSA-SW40D-030821	03/11/2021 17:05	1	UXM35627.D	DB-624 0.18(mm)
240-145599-13	MSA-SW41A-030821	03/11/2021 17:30	1	UXM35628.D	DB-624 0.18(mm)
240-145599-14	MSA-SW41B-030821	03/11/2021 17:54	1	UXM35629.D	DB-624 0.18(mm)
240-145599-15	MSA-SW41C-030821	03/11/2021 18:19	1	UXM35630.D	DB-624 0.18(mm)
240-145599-16	MSA-SW41D-030821	03/11/2021 18:43	1	UXM35631.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX19 Start Date: 03/15/2021 18:13

Analysis Batch Number: 476858 End Date: 03/16/2021 05:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-476858/43		03/15/2021 18:13	1	bfb766.d	DB-624 0.18(mm)
CCV 240-476858/3		03/15/2021 18:42	1	U1920959.d	DB-624 0.18(mm)
CCVIS 240-476858/4		03/15/2021 19:04	1	U1920960.d	DB-624 0.18(mm)
LCS 240-476858/5		03/15/2021 19:29	1	U1920961.d	DB-624 0.18(mm)
MRL 240-476858/6 MDLV		03/15/2021 19:57	1		DB-624 0.18(mm)
MRL 240-476858/7 MDLV		03/15/2021 20:24	1		DB-624 0.18(mm)
MB 240-476858/8		03/15/2021 20:55	1	U1920964.d	DB-624 0.18(mm)
ZZZZZ		03/15/2021 21:24	1		DB-624 0.18(mm)
ZZZZZ		03/15/2021 21:52	1		DB-624 0.18(mm)
ZZZZZ		03/15/2021 22:24	1		DB-624 0.18(mm)
ZZZZZ		03/15/2021 22:50	1		DB-624 0.18(mm)
ZZZZZ		03/15/2021 23:18	1		DB-624 0.18(mm)
ZZZZZ		03/15/2021 23:46	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 00:11	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 00:38	1		DB-624 0.18(mm)
240-145599-20	MSA-SW42D-030821	03/16/2021 01:05	1	U1920973.d	DB-624 0.18(mm)
240-145599-21	MSA-SW43A-030821	03/16/2021 01:34	1	U1920974.d	DB-624 0.18(mm)
240-145599-22	MSA-SW43B-030821	03/16/2021 02:09	1	U1920975.d	DB-624 0.18(mm)
240-145599-23	MSA-SW43C-030821	03/16/2021 02:36	1	U1920976.d	DB-624 0.18(mm)
240-145599-24	MSA-SW43D-030821	03/16/2021 03:06	1	U1920977.d	DB-624 0.18(mm)
240-145599-25	MSA-SW44A-030821	03/16/2021 03:36	1	U1920978.d	DB-624 0.18(mm)
240-145599-26	MSA-SW44B-030821	03/16/2021 04:06	1	U1920979.d	DB-624 0.18(mm)
240-145599-27	MSA-SW44C-030821	03/16/2021 04:37	1	U1920980.d	DB-624 0.18(mm)
240-145599-28	MSA-SW44D-030821	03/16/2021 05:17	1	U1920981.d	DB-624 0.18(mm)
240-145599-29	TB-030821	03/16/2021 05:48	1	U1920982.d	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX16 Start Date: 03/16/2021 10:14

Analysis Batch Number: 476975 End Date: 03/16/2021 20:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-476975/1		03/16/2021 10:14	1	BFB6646.D	DB-624 0.18(mm)
CCVIS 240-476975/3		03/16/2021 10:39	1	UXM35681.D	DB-624 0.18(mm)
CCV 240-476975/4		03/16/2021 11:04	1	UXM35682.D	DB-624 0.18(mm)
LCS 240-476975/5		03/16/2021 11:28	1	UXM35683.D	DB-624 0.18(mm)
MRL 240-476975/6 MDLV		03/16/2021 11:53	1		DB-624 0.18(mm)
MRL 240-476975/7 MDLV		03/16/2021 12:18	1		DB-624 0.18(mm)
MB 240-476975/8		03/16/2021 12:42	1	UXM35686.D	DB-624 0.18(mm)
MRL 240-476975/9 MDLV		03/16/2021 13:07	1		DB-624 0.18(mm)
LCSD 240-476975/10		03/16/2021 13:32	1	UXM35688.D	DB-624 0.18(mm)
240-145599-17	MSA-SW42A-030821	03/16/2021 13:57	1	UXM35689.D	DB-624 0.18(mm)
240-145599-18	MSA-SW42B-030821	03/16/2021 14:21	1	UXM35690.D	DB-624 0.18(mm)
240-145599-19	MSA-SW42C-030821	03/16/2021 14:46	1	UXM35691.D	DB-624 0.18(mm)
240-145599-30	MSA-SW46A-030821	03/16/2021 15:10	1	UXM35692.D	DB-624 0.18(mm)
240-145599-31	MSA-SW47A-030821	03/16/2021 15:35	1	UXM35693.D	DB-624 0.18(mm)
240-145599-32	MSA-SW48A-030821	03/16/2021 15:59	1	UXM35694.D	DB-624 0.18(mm)
240-145599-33	MSA-SW49A-030821	03/16/2021 16:24	1	UXM35695.D	DB-624 0.18(mm)
ZZZZZ		03/16/2021 16:49	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 17:13	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 17:38	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 18:03	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 18:27	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 18:52	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 19:16	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 19:41	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 20:30	1		DB-624 0.18(mm)
ZZZZZ		03/16/2021 20:55	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Instrument ID: A3UX9 Start Date: 03/17/2021 07:33

Analysis Batch Number: 477127 End Date: 03/17/2021 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-477127/1		03/17/2021 07:33	1	BFB1220.D	DB-624 0.18(mm)
CCVIS 240-477127/3		03/17/2021 07:58	1	UX993993.D	DB-624 0.18(mm)
CCV 240-477127/4		03/17/2021 08:21	1	UX993994.D	DB-624 0.18(mm)
MRL 240-477127/6 MDLV		03/17/2021 09:06	1		DB-624 0.18(mm)
MRL 240-477127/7 MDLV		03/17/2021 09:28	1		DB-624 0.18(mm)
MB 240-477127/8		03/17/2021 09:50	1	UX993998.D	DB-624 0.18(mm)
ZZZZZ		03/17/2021 10:13	1		DB-624 0.18(mm)
LCS 240-477127/10		03/17/2021 10:36	1	UX994000.D	DB-624 0.18(mm)
ZZZZZ		03/17/2021 11:16	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 11:38	1		DB-624 0.18(mm)
240-145599-17	MSA-SW42A-030821	03/17/2021 12:01	1	UX994003.D	DB-624 0.18(mm)
240-145599-18	MSA-SW42B-030821	03/17/2021 12:23	1	UX994004.D	DB-624 0.18(mm)
240-145599-19	MSA-SW42C-030821	03/17/2021 12:46	1	UX994005.D	DB-624 0.18(mm)
240-145599-30	MSA-SW46A-030821	03/17/2021 13:08	1	UX994006.D	DB-624 0.18(mm)
ZZZZZ		03/17/2021 13:31	10		DB-624 0.18(mm)
ZZZZZ		03/17/2021 13:54	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 14:16	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 14:39	5		DB-624 0.18(mm)
ZZZZZ		03/17/2021 15:02	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 15:24	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 15:47	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 16:10	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 16:32	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 16:55	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 17:17	1		DB-624 0.18(mm)
ZZZZZ		03/17/2021 17:40	1		DB-624 0.18(mm)
240-145830-A-2 MS		03/17/2021 18:02	10	UX994019.D	DB-624 0.18(mm)
240-145830-A-2 MSD		03/17/2021 18:25	10	UX994020.D	DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 342719 Batch Start Date: 08/27/18 16:23 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_A 00001	vm50ss 00333	vm50ss_stk 00077	vmarolistdw 00260
BFB 240-342719/1		8260C		5 mL	5 mL				
STD8260 240-342719/7 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
STD8260 240-342719/8 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-342719/9 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
ICIS 240-342719/10		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-342719/11 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
STD8260 240-342719/12 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-342719/13 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
ICV 240-342719/14		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00020	vmfasaw 00246	vmfasgw 00271	vmfaspw 00264	vmrgas 00259	vmrprimw 00297
BFB 240-342719/1		8260C		1 uL					
STD8260 240-342719/7 IC		8260C						64 uL	64 uL
STD8260 240-342719/8 IC		8260C						48 uL	48 uL
STD8260 240-342719/9 IC		8260C						32 uL	32 uL
ICIS 240-342719/10		8260C						16 uL	16 uL
STD8260 240-342719/11 IC		8260C						8 uL	8 uL
STD8260 240-342719/12 IC		8260C						0.8 uL	0.8 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 342719 Batch Start Date: 08/27/18 16:23 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00020	vmfasaw 00246	vmfasgw 00271	vmfaspw 00264	vmrgas 00259	vmrprimw 00297
STD8260 240-342719/13 IC		8260C						0.4 uL	0.4 uL
ICV 240-342719/14		8260C			16 uL	16 uL	16 uL		

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_a 00007	vm50ss 00417	vm50ss_stk 00085	vmarolistdw 00359
BFB 240-450378/1		8260C		5 mL	5 mL				
STD8260 240-450378/9 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
STD8260 240-450378/10 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-450378/11 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
ICIS 240-450378/12		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-450378/13 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
STD8260 240-450378/14 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-450378/15 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
ICV 240-450378/16		8260C		5 mL	5 mL	2 uL		2 uL	
STDA9 240-450378/19 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/20 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/21 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/22 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/23 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-450378/24 IC		8260C		5 mL	5 mL	2 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm50is_stk_a 00007	vm50ss 00417	vm50ss_stk 00085	vmarolistdw 00359
ICV 240-450378/25		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	VMFASA9W 00290	vmfasaw 00342	vmfasgw 00375	vmfaspw 00365	vmra9w 00359
BFB 240-450378/1		8260C		1 uL					
STD8260 240-450378/9 IC		8260C							
STD8260 240-450378/10 IC		8260C							
STD8260 240-450378/11 IC		8260C							
ICIS 240-450378/12		8260C							
STD8260 240-450378/13 IC		8260C							
STD8260 240-450378/14 IC		8260C							
STD8260 240-450378/15 IC		8260C							
ICV 240-450378/16		8260C				16 uL	16 uL	16 uL	
STDA9 240-450378/19 IC		8260C							64 uL
STDA9 240-450378/20 IC		8260C							32 uL
STDA9 240-450378/21 IC		8260C							16 uL
STDA9 240-450378/22 IC		8260C							8 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00025	VMFASA9W 00290	vmfasaw 00342	vmfasgw 00375	vmfaspw 00365	vmra9w 00359
STDA9 240-450378/23 IC		8260C							0.8 uL
STDA9 240-450378/24 IC		8260C							0.4 uL
ICV 240-450378/25		8260C			16 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00353	vmrprimw 00402				
BFB 240-450378/1		8260C							
STD8260 240-450378/9 IC		8260C		64 uL	64 uL				
STD8260 240-450378/10 IC		8260C		48 uL	48 uL				
STD8260 240-450378/11 IC		8260C		32 uL	32 uL				
ICIS 240-450378/12		8260C		16 uL	16 uL				
STD8260 240-450378/13 IC		8260C		8 uL	8 uL				
STD8260 240-450378/14 IC		8260C		0.8 uL	0.8 uL				
STD8260 240-450378/15 IC		8260C		0.4 uL	0.4 uL				
ICV 240-450378/16		8260C							
STDA9 240-450378/19 IC		8260C							
STDA9 240-450378/20 IC		8260C							
STDA9 240-450378/21 IC		8260C							

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 450378 Batch Start Date: 09/08/20 11:23 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00353	vmrprimw 00402				
STDA9 240-450378/22 IC		8260C							
STDA9 240-450378/23 IC		8260C							
STDA9 240-450378/24 IC		8260C							
ICV 240-450378/25		8260C							

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 468309 Batch Start Date: 01/07/21 11:58 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	vm100is_stk_a 00006	vm50ss 00431	vmarolistdw 00375	vmbfb 00026
BFB 240-468309/2		8260C		5 mL	5 mL				1 uL
STD8260 240-468309/8 IC		8260C		5 mL	5 mL	1 uL	0.4 uL	0.4 uL	
STD8260 240-468309/9 IC		8260C		5 mL	5 mL	1 uL	0.8 uL	0.8 uL	
STD8260 240-468309/10 IC		8260C		5 mL	5 mL	1 uL	8 uL	8 uL	
ICIS 240-468309/11		8260C		5 mL	5 mL	1 uL	16 uL	16 uL	
STD8260 240-468309/12 IC		8260C		5 mL	5 mL	1 uL	24 uL	24 uL	
STD8260 240-468309/13 IC		8260C		5 mL	5 mL	1 uL	32 uL	32 uL	
STD8260 240-468309/14 IC		8260C		5 mL	5 mL	1 uL	48 uL	48 uL	
ICV 240-468309/15		8260C		5 mL	5 mL	1 uL	16 uL		
STDA9 240-468309/18 IC		8260C		5 mL	5 mL	1 uL			
STDA9 240-468309/19 IC		8260C		5 mL	5 mL	1 uL			
STDA9 240-468309/20 IC		8260C		5 mL	5 mL	1 uL			
STDA9 240-468309/21 IC		8260C		5 mL	5 mL	1 uL			
STDA9 240-468309/22 IC		8260C		5 mL	5 mL	1 uL			
STDA9 240-468309/23 IC		8260C		5 mL	5 mL	1 uL			
ICV 240-468309/24		8260C		5 mL	5 mL	1 uL	16 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 468309 Batch Start Date: 01/07/21 11:58 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VMFASA9W 00304	vmfasaw 00358	vmfasgw 00390	vmfaspw 00381	vmra9w 00374	vmrgas 00368
BFB 240-468309/2		8260C							
STD8260 240-468309/8 IC		8260C							0.4 uL
STD8260 240-468309/9 IC		8260C							0.8 uL
STD8260 240-468309/10 IC		8260C							8 uL
ICIS 240-468309/11		8260C							16 uL
STD8260 240-468309/12 IC		8260C							24 uL
STD8260 240-468309/13 IC		8260C							32 uL
STD8260 240-468309/14 IC		8260C							48 uL
ICV 240-468309/15		8260C			16 uL	16 uL	16 uL		
STDA9 240-468309/18 IC		8260C						0.4 uL	
STDA9 240-468309/19 IC		8260C						0.8 uL	
STDA9 240-468309/20 IC		8260C						8 uL	
STDA9 240-468309/21 IC		8260C						16 uL	
STDA9 240-468309/22 IC		8260C						32 uL	
STDA9 240-468309/23 IC		8260C						48 uL	
ICV 240-468309/24		8260C		16 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 468309 Batch Start Date: 01/07/21 11:58 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00418					
BFB 240-468309/2		8260C							
STD8260 240-468309/8 IC		8260C		0.4 uL					
STD8260 240-468309/9 IC		8260C		0.8 uL					
STD8260 240-468309/10 IC		8260C		8 uL					
ICIS 240-468309/11		8260C		16 uL					
STD8260 240-468309/12 IC		8260C		24 uL					
STD8260 240-468309/13 IC		8260C		32 uL					
STD8260 240-468309/14 IC		8260C		48 uL					
ICV 240-468309/15		8260C							
STDA9 240-468309/18 IC		8260C							
STDA9 240-468309/19 IC		8260C							
STDA9 240-468309/20 IC		8260C							
STDA9 240-468309/21 IC		8260C							
STDA9 240-468309/22 IC		8260C							
STDA9 240-468309/23 IC		8260C							
ICV 240-468309/24		8260C							

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 468309 Batch Start Date: 01/07/21 11:58 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C 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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476369 Batch Start Date: 03/11/21 08:44 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_a 00008	vm50ss_stk 00086	vmarolistdw 00383
BFB 240-476369/1		8260C		5 mL	5 mL				
CCVIS 240-476369/3		8260C		5 mL	5 mL		2 uL	2.492 uL	16 uL
CCV 240-476369/4		8260C		5 mL	5 mL		2 uL		
LCS 240-476369/5		8260C		5 mL	5 mL		2 uL	2.492 uL	
MB 240-476369/8		8260C		5 mL	5 mL		2 uL	2.492 uL	
LCSD 240-476369/10		8260C		5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-A-1	MSA-SW37A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-2	MSA-SW37B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-3	MSA-SW37C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-4	MSA-SW37D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-5	MSA-SW38A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-6	MSA-SW38B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-7	MSA-SW38C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-8	MSA-SW38D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-9	MSA-SW40A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-10	MSA-SW40B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-11	MSA-SW40C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-C-12	MSA-SW40D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-A-13	MSA-SW41A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-14	MSA-SW41B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-15	MSA-SW41C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-16	MSA-SW41D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00365	vmfasgw 00399	vmfaspw 00389	vmra9w 00382	vmrgas 00376
BFB 240-476369/1		8260C		1 uL					
CCVIS 240-476369/3		8260C							16 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476369 Batch Start Date: 03/11/21 08:44 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00365	vmfasgw 00399	vmfaspw 00389	vmra9w 00382	vmrgas 00376
CCV 240-476369/4		8260C						16 uL	
LCS 240-476369/5		8260C			16 uL	16 uL	16 uL		
MB 240-476369/8		8260C							
LCSD 240-476369/10		8260C			16 uL	16 uL	16 uL		
240-145599-A-1	MSA-SW37A-030821	8260C	T						
240-145599-B-2	MSA-SW37B-030821	8260C	T						
240-145599-B-3	MSA-SW37C-030821	8260C	T						
240-145599-B-4	MSA-SW37D-030821	8260C	T						
240-145599-B-5	MSA-SW38A-030821	8260C	T						
240-145599-B-6	MSA-SW38B-030821	8260C	T						
240-145599-B-7	MSA-SW38C-030821	8260C	T						
240-145599-B-8	MSA-SW38D-030821	8260C	T						
240-145599-B-9	MSA-SW40A-030821	8260C	T						
240-145599-B-10	MSA-SW40B-030821	8260C	T						
240-145599-B-11	MSA-SW40C-030821	8260C	T						
240-145599-C-12	MSA-SW40D-030821	8260C	T						
240-145599-A-13	MSA-SW41A-030821	8260C	T						
240-145599-B-14	MSA-SW41B-030821	8260C	T						
240-145599-B-15	MSA-SW41C-030821	8260C	T						
240-145599-B-16	MSA-SW41D-030821	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00426					
BFB 240-476369/1		8260C							
CCVIS 240-476369/3		8260C		16 uL					
CCV 240-476369/4		8260C							
LCS 240-476369/5		8260C							
MB 240-476369/8		8260C							

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476369 Batch Start Date: 03/11/21 08:44 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00426					
LCSD 240-476369/10		8260C							
240-145599-A-1	MSA-SW37A-030821	8260C	T						
240-145599-B-2	MSA-SW37B-030821	8260C	T						
240-145599-B-3	MSA-SW37C-030821	8260C	T						
240-145599-B-4	MSA-SW37D-030821	8260C	T						
240-145599-B-5	MSA-SW38A-030821	8260C	T						
240-145599-B-6	MSA-SW38B-030821	8260C	T						
240-145599-B-7	MSA-SW38C-030821	8260C	T						
240-145599-B-8	MSA-SW38D-030821	8260C	T						
240-145599-B-9	MSA-SW40A-030821	8260C	T						
240-145599-B-10	MSA-SW40B-030821	8260C	T						
240-145599-B-11	MSA-SW40C-030821	8260C	T						
240-145599-C-12	MSA-SW40D-030821	8260C	T						
240-145599-A-13	MSA-SW41A-030821	8260C	T						
240-145599-B-14	MSA-SW41B-030821	8260C	T						
240-145599-B-15	MSA-SW41C-030821	8260C	T						
240-145599-B-16	MSA-SW41D-030821	8260C	T						

Batch Notes	
pH Indicator ID	HC907861

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476858 Batch Start Date: 03/15/21 18:13 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_A 00008	vm50ss_stk 00087	vmarolistdw 00383
CCV 240-476858/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-476858/4		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-476858/5		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-476858/8		8260C		5 mL	5 mL		2 uL	2 uL	
240-145599-B-20	MSA-SW42D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-21	MSA-SW43A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-22	MSA-SW43B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-23	MSA-SW43C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-24	MSA-SW43D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-A-25	MSA-SW44A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-26	MSA-SW44B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-27	MSA-SW44C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-B-28	MSA-SW44D-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-145599-A-29	TB-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
BFB 240-476858/43		8260C		5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00366	vmfasgw 00399	vmfaspw 00389	vmra9w 00383	vmrgas 00377
CCV 240-476858/3		8260C						16 uL	
CCVIS 240-476858/4		8260C							16 uL
LCS 240-476858/5		8260C			16 uL	16 uL	16 uL		
MB 240-476858/8		8260C							
240-145599-B-20	MSA-SW42D-030821	8260C	T						
240-145599-B-21	MSA-SW43A-030821	8260C	T						
240-145599-B-22	MSA-SW43B-030821	8260C	T						
240-145599-B-23	MSA-SW43C-030821	8260C	T						
240-145599-B-24	MSA-SW43D-030821	8260C	T						
240-145599-A-25	MSA-SW44A-030821	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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476858 Batch Start Date: 03/15/21 18:13 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00366	vmfasgw 00399	vmfaspw 00389	vmra9w 00383	vmrgas 00377
240-145599-B-26	MSA-SW44B-030821	8260C	T						
240-145599-B-27	MSA-SW44C-030821	8260C	T						
240-145599-B-28	MSA-SW44D-030821	8260C	T						
240-145599-A-29	TB-030821	8260C	T						
BFB 240-476858/43		8260C		1 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00426					
CCV 240-476858/3		8260C							
CCVIS 240-476858/4		8260C		16 uL					
LCS 240-476858/5		8260C							
MB 240-476858/8		8260C							
240-145599-B-20	MSA-SW42D-030821	8260C	T						
240-145599-B-21	MSA-SW43A-030821	8260C	T						
240-145599-B-22	MSA-SW43B-030821	8260C	T						
240-145599-B-23	MSA-SW43C-030821	8260C	T						
240-145599-B-24	MSA-SW43D-030821	8260C	T						
240-145599-A-25	MSA-SW44A-030821	8260C	T						
240-145599-B-26	MSA-SW44B-030821	8260C	T						
240-145599-B-27	MSA-SW44C-030821	8260C	T						
240-145599-B-28	MSA-SW44D-030821	8260C	T						
240-145599-A-29	TB-030821	8260C	T						
BFB 240-476858/43		8260C							

Batch Notes	
pH Indicator ID	HC907861

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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476858 Batch Start Date: 03/15/21 18:13 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476975 Batch Start Date: 03/16/21 10:14 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm50is_stk_a 00008	vm50ss_stk 00086	vmarolistdw 00383
BFB 240-476975/1		8260C		5 mL	5 mL				
CCVIS 240-476975/3		8260C		5 mL	5 mL		2 uL	2.492 uL	16 uL
CCV 240-476975/4		8260C		5 mL	5 mL		2 uL		
LCS 240-476975/5		8260C		5 mL	5 mL		2 uL	2.492 uL	
MB 240-476975/8		8260C		5 mL	5 mL		2 uL	2.492 uL	
LCSD 240-476975/10		8260C		5 mL	5 mL		2 uL	2.492 uL	
240-145599-B-17	MSA-SW42A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-18	MSA-SW42B-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-19	MSA-SW42C-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-30	MSA-SW46A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-31	MSA-SW47A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-B-32	MSA-SW48A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	
240-145599-A-33	MSA-SW49A-030821	8260C	T	5 mL	5 mL	<2 SU	2 uL	2.492 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00366	vmfasgw 00399	vmfaspw 00389	vmra9w 00383	vmrgas 00377
BFB 240-476975/1		8260C		1 uL					
CCVIS 240-476975/3		8260C							16 uL
CCV 240-476975/4		8260C						16 uL	
LCS 240-476975/5		8260C			16 uL	16 uL	16 uL		
MB 240-476975/8		8260C							
LCSD 240-476975/10		8260C			16 uL	16 uL	16 uL		
240-145599-B-17	MSA-SW42A-030821	8260C	T						
240-145599-B-18	MSA-SW42B-030821	8260C	T						
240-145599-B-19	MSA-SW42C-030821	8260C	T						
240-145599-B-30	MSA-SW46A-030821	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: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 476975 Batch Start Date: 03/16/21 10:14 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00366	vmfasgw 00399	vmfaspw 00389	vmra9w 00383	vmrgas 00377
240-145599-B-31	MSA-SW47A-030821	8260C	T						
240-145599-B-32	MSA-SW48A-030821	8260C	T						
240-145599-A-33	MSA-SW49A-030821	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00426					
BFB 240-476975/1		8260C							
CCVIS 240-476975/3		8260C		16 uL					
CCV 240-476975/4		8260C							
LCS 240-476975/5		8260C							
MB 240-476975/8		8260C							
LCSD 240-476975/10		8260C							
240-145599-B-17	MSA-SW42A-030821	8260C	T						
240-145599-B-18	MSA-SW42B-030821	8260C	T						
240-145599-B-19	MSA-SW42C-030821	8260C	T						
240-145599-B-30	MSA-SW46A-030821	8260C	T						
240-145599-B-31	MSA-SW47A-030821	8260C	T						
240-145599-B-32	MSA-SW48A-030821	8260C	T						
240-145599-A-33	MSA-SW49A-030821	8260C	T						

Batch Notes	
pH Indicator ID	HC907861

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 477127 Batch Start Date: 03/17/21 07:33 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	vm100is_stk_a 00006	vm100ss_stk 00033	vmarolistdw 00384
BFB 240-477127/1		8260C		5 mL	5 mL				
CCVIS 240-477127/3		8260C		5 mL	5 mL		1 uL	0.8111 uL	16 uL
CCV 240-477127/4		8260C		5 mL	5 mL		1 uL		
MB 240-477127/8		8260C		5 mL	5 mL		1 uL	0.8111 uL	
LCS 240-477127/10		8260C		5 mL	5 mL		1 uL	0.8111 uL	
240-145599-A-17	MSA-SW42A-030821	8260C	T	5 mL	5 mL	<2 SU	1 uL	0.8111 uL	
240-145599-A-18	MSA-SW42B-030821	8260C	T	5 mL	5 mL	<2 SU	1 uL	0.8111 uL	
240-145599-A-19	MSA-SW42C-030821	8260C	T	5 mL	5 mL	<2 SU	1 uL	0.8111 uL	
240-145599-A-30	MSA-SW46A-030821	8260C	T	5 mL	5 mL	<2 SU	1 uL	0.8111 uL	
240-145830-A-2 MS		8260C	T	5 mL	5 mL	<2 SU	1 uL	0.8111 uL	
240-145830-A-2 MSD		8260C	T	5 mL	5 mL	<2 SU	1 uL	0.8111 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00026	vmfasaw 00366	vmfasgw 00399	vmfaspw 00390	vmra9w 00383	vmrgas 00377
BFB 240-477127/1		8260C		1 uL					
CCVIS 240-477127/3		8260C							16 uL
CCV 240-477127/4		8260C						16 uL	
MB 240-477127/8		8260C							
LCS 240-477127/10		8260C			16 uL	16 uL	16 uL		
240-145599-A-17	MSA-SW42A-030821	8260C	T						
240-145599-A-18	MSA-SW42B-030821	8260C	T						
240-145599-A-19	MSA-SW42C-030821	8260C	T						
240-145599-A-30	MSA-SW46A-030821	8260C	T						
240-145830-A-2 MS		8260C	T		16 uL	16 uL	16 uL		
240-145830-A-2 MSD		8260C	T		16 uL	16 uL	16 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 VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-145599-1

SDG No.: Frog Mortar Creek

Batch Number: 477127 Batch Start Date: 03/17/21 07:33 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00427					
BFB 240-477127/1		8260C							
CCVIS 240-477127/3		8260C		16 uL					
CCV 240-477127/4		8260C							
MB 240-477127/8		8260C							
LCS 240-477127/10		8260C							
240-145599-A-17	MSA-SW42A-030821	8260C	T						
240-145599-A-18	MSA-SW42B-030821	8260C	T						
240-145599-A-19	MSA-SW42C-030821	8260C	T						
240-145599-A-30	MSA-SW46A-030821	8260C	T						
240-145830-A-2 MS		8260C	T						
240-145830-A-2 MSD		8260C	T						

Batch Notes	
pH Indicator ID	HC907861

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

Baltimore
#201

0.8

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

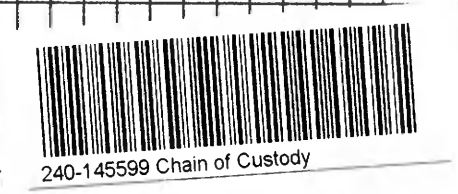
Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 3/8/2021	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne C.	Carrier: Fedex	1 of 3 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W)			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler: J Mullis
Site: MSA Frog Mortar Creek	☐ 2 days			
Project # 112IC09343	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW37A-030821	3/8/2021	1054	SW	Water	3		x	
MSA-SW37B-030821	3/8/2021	1100	SW	Water	3		x	
MSA-SW37C-030821	3/8/2021	1123	SW	Water	3		x	
MSA-SW37D-030821	3/8/2021	1126	SW	Water	3		x	
MSA-SW38A-030821	3/8/2021	0951	SW	Water	3		x	
MSA-SW38B-030821	3/8/2021	0956	SW	Water	3		x	
MSA-SW38C-030821	3/8/2021	0959	SW	Water	3		x	
MSA-SW38D-030821	3/8/2021	1002	SW	Water	3		x	
MSA-SW40A-030821	3/8/2021	1013	SW	Water	3		x	
MSA-SW40B-030821	3/8/2021	1017	SW	Water	3		x	
MSA-SW40C-030821	3/8/2021	1019	SW	Water	3		x	
MSA-SW40D-030821	3/8/2021	1023	SW	Water	3		x	
							2	



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech Inc	3/5/21 1500		BEA	3/8/21 1500
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BEA	3/8/21 1700		ETA	3-9-21 1015
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

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03/22/2021

Baltimore
#201

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 8/12/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne C.	Carrier: Fedex	2 of 3 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MSA Surface Water Sampling	☐ 1 week			Sampler: J Mullis
Site: MSA Frog Mortar Creek	☐ 2 days			
Project # 112IC09343	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW41A-030821	3/8/2021	0434	SW	Water	3		x	
MSA-SW41B-030821	3/8/2021	0436	SW	Water	3		x	
MSA-SW41C-030821	3/8/2021	0439	SW	Water	3		x	
MSA-SW41D-030821	3/8/2021	0441	SW	Water	3		x	
MSA-SW42A-030821	3/8/2021	1039	SW	Water	3		x	
MSA-SW42B-030821	3/8/2021	1042	SW	Water	3		x	
MSA-SW42C-030821	3/8/2021	1045	SW	Water	3		x	
MSA-SW42D-030821	3/8/2021	1049	SW	Water	3		x	
MSA-SW43A-030821	3/8/2021	0914	SW	Water	3		x	
MSA-SW43B-030821	3/8/2021	0916	SW	Water	3		x	
MSA-SW43C-030821	3/8/2021	0919	SW	Water	3		x	
MSA-SW43D-030821	3/8/2021	0923	SW	Water	3		x	
							2	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☑ *Disposal By Lab* ☐ *Archive For _____ Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech Inc	3/8/21 1500		BTA Baltimore	3/8/21 1500
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BTA Baltimore	3/8/21 1200		EDA	3-9-21 1015
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Baltimore
#201

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 8/12/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: Roxanne C.	Carrier: Fedex	3 of 3 COCs
20251 Century Blvd, Suite 200	**Analysis Turnaround Time**			Job No.
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below: STANDARD			
(301) 528-3000 FAX	☐ 2 weeks			SDG No.
Project Name: MSA Surface Water Sampling	☐ 1 week			
Site: MSA Frog Mortar Creek	☐ 2 days			
Project # 112IC09343	☐ 1 day			Sampler: J Mullis

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs + Freon 113/22 + TIC (8260C)	Sample Specific Notes:
MSA-SW44A-030821	3/8/2021	0858	SW	Water	3		x	
MSA-SW44B-030821	3/8/2021	0903	SW	Water	3		x	
MSA-SW44C-030821	3/8/2021	0906	SW	Water	3		x	
MSA-SW44D-030821	3/8/2021	0909	SW	Water	3		x	
TB-030821	3/8/2021	0000	SW	Water	3		x	
MSA-SW46A-030821	3/8/2021	1031	SW	Water	3		x	
MSA-SW47A-030821	3/8/2021	1006	SW	Water	3		x	
MSA-SW48A-030821	3/8/2021	0945	SW	Water	3		x	
MSA-SW49A-030821	3/8/2021	~~0948~~ 0928 JAM	SW	Water	3		x	Time = 0928

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____ | 2

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech Inc	3/8/21 1500		Pace Balt	3/8/21 1500
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Pace Balt	3/8/21 1700		CNS	3-9-21
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

03/22/2021

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # : 145599**
Canton Facility

Client TetraTech Site Name _____ Cooler unpacked by: Adam Jeanott

Cooler Received on 3-9-21 Opened on 3-9-21

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # T1 Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: ~~Wet Ice~~ Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 0.8 °C Corrected Cooler Temp. 0.9 °C
   IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were the seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
-Were tamper/custody seals intact and uncompromised?	(Yes)	No NA
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes)	No
7. Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	(Yes)	No
9. For each sample, does the COC specify preservatives (Y(N), # of containers (Y/N), and sample type of grab/comp(Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
11. Sufficient quantity received to perform indicated analyses?	(Yes)	No
12. Are these work share samples and all listed on the COC?	Yes	(No)
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No (NA) pH Strip Lot# **HC022887**
14. Were VOAs on the COC?	(Yes)	No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	(Yes)	No
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

_____

_____

_____

_____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

APPENDIX C—CHEMICAL-RESULTS DATA TABLE

LOCATION	MSA-SW37A	MSA-SW37B
SAMPLE ID	MSA-SW37A-030821	MSA-SW37B-030821
SAMPLE DATE	20210308	20210308
VOLATILES (UG/L)		
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 UJ	0.41 UJ
1,1-DICHLOROETHANE	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U
2-HEXANONE	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U
ACETONE	5.4 U	5.4 U
BENZENE	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U
BROMOMETHANE	0.42 UJ	0.42 UJ
CARBON DISULFIDE	0.28 U	0.28 U
CARBON TETRACHLORIDE	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 UJ	1 UJ
CHLOROETHANE	0.83 U	0.83 U
CHLOROFORM	0.13 U	0.13 U
CHLOROMETHANE	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 U	0.35 U
DIISOPROPYL ETHER	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U

M+P-XYLENES	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 UJ	1.7 UJ
TETRACHLOROETHENE	0.15 U	0.15 U
TOLUENE	0.14 J	0.19 J
TOTAL XYLENES	0.15 U	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U
VINYL ACETATE	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U

J - estimated concentration
U - not detected
R - rejected data (unusable because lab criteria not met)

MSA-SW37C MSA-SW37C-030821 20210308	MSA-SW37D MSA-SW37D-030821 20210308	MSA-SW38A MSA-SW38A-030821 20210308	MSA-SW38B MSA-SW38B-030821 20210308	MSA-SW38C MSA-SW38C-030821 20210308
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.07 U	0.07 U	0.07 U	0.11 J	0.07 U
0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ
0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
0.19 J	0.16 U	0.23 J	0.23 J	0.17 J
0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

0.08 U	0.08 U	0.08 U	0.08 U	0.25 J
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.09 U	0.09 U	0.09 U	0.09 U	0.12 J
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.19 J	0.21 J	0.16 J	0.21 J	0.33 J
0.15 U	0.15 U	0.15 U	0.15 U	0.37 J
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.28 J	0.21 J	0.54 J	0.59 J	0.45 J

MSA-SW38D MSA-SW38D-030821 20210308	MSA-SW40A MSA-SW40A-030821 20210308	MSA-SW40B MSA-SW40B-030821 20210308	MSA-SW40C MSA-SW40C-030821 20210308	MSA-SW40D MSA-SW40D-030821 20210308
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.07 U	0.07 U	0.16 J	0.16 J	0.11 J
0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ
0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
0.18 J	2.1	0.26 J	0.16 U	0.16 U
0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

0.19 J	0.13 J	0.38 J	0.32 J	0.27 J
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.09 U	0.09 U	0.16 J	0.11 J	0.11 J
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 J	0.19 J	0.47 J	0.38 J	0.3 J
0.19 J	0.15 U	0.54 J	0.43 J	0.38 J
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.45 J	4.5	0.62 J	0.21 J	0.2 U

MSA-SW41A MSA-SW41A-030821 20210308	MSA-SW41B MSA-SW41B-030821 20210308	MSA-SW41C MSA-SW41C-030821 20210308	MSA-SW41D MSA-SW41D-030821 20210308	MSA-SW42A MSA-SW42A-030821 20210308
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.07 U	0.07 U	0.07 U	0.07 U	0.14 J
0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U
0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ
0.27 J	0.16 U	0.16 U	0.16 U	1.4
0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.35 U	0.35 U	0.35 U	0.35 U	0.35 UJ
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

0.15 J	0.22 J	0.18 J	0.08 U	0.29 J
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.09 U	0.12 J	0.1 J	0.09 U	0.15 J
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.18 J	0.3 J	0.26 J	0.25 J	0.36 J
0.15 J	0.34 J	0.28 J	0.15 U	0.44 J
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.36 J	0.24 J	0.2 U	0.2 U	2.1

MSA-SW42B MSA-SW42B-030821 20210308	MSA-SW42C MSA-SW42C-030821 20210308	MSA-SW42D MSA-SW42D-030821 20210308	MSA-SW43A MSA-SW43A-030821 20210308	MSA-SW43B MSA-SW43B-030821 20210308
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.13 U	0.13 U	0.13 UJ	0.13 UJ	0.13 UJ
0.41 UJ	0.41 UJ	0.41 U	0.41 U	0.41 U
0.17 U	0.17 U	0.17 UJ	0.17 UJ	0.17 UJ
0.19 U	0.19 U	0.19 UJ	0.19 UJ	0.19 UJ
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.19 J	0.16 J	0.13 J	0.07 U	0.1 J
0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.15 U	0.15 U	0.15 UJ	0.15 UJ	0.15 UJ
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.14 U	0.14 U	0.14 UJ	0.14 UJ	0.14 UJ
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
0.83 U	0.83 U	0.83 UJ	0.83 UJ	0.83 UJ
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
0.55 J	0.55 J	0.31 J	0.16 U	0.16 J
0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
0.09 U	0.09 U	0.09 UJ	0.09 UJ	0.09 UJ
0.35 UJ	0.35 UJ	0.35 U	0.35 U	0.35 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

0.41 J	0.3 J	0.28 J	0.08 U	0.24 J
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.16 J	0.13 J	0.12 J	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.44 J	0.35 J	0.33 J	0.16 J	0.28 J
0.57 J	0.43 J	0.4 J	0.15 U	0.24 J
0.19 U	0.19 U	0.19 UJ	0.19 UJ	0.19 UJ
0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.88 J	0.86 J	0.78 J	0.2 UJ	0.2 UJ

MSA-SW43C MSA-SW43C-030821 20210308	MSA-SW43D MSA-SW43D-030821 20210308	MSA-SW44A MSA-SW44A-030821 20210308	MSA-SW44B MSA-SW44B-030821 20210308	MSA-SW44C MSA-SW44C-030821 20210308
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ
0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
0.17 UJ	0.17 UJ	0.17 UJ	0.17 UJ	0.17 UJ
0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.07 U	0.11 J	0.07 U	0.07 U	0.12 J
0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.15 UJ	0.15 UJ	0.15 UJ	0.15 UJ	0.15 UJ
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
0.09 UJ	0.09 UJ	0.09 UJ	0.09 UJ	0.09 UJ
0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

0.16 J	0.17 J	0.17 J	0.2 J	0.23 J
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.09 U	0.09 U	0.09 U	0.1 J	0.11 J
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.23 J	0.24 J	0.21 J	0.26 J	0.3 J
0.16 J	0.17 J	0.17 J	0.3 J	0.34 J
0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ
0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ

MSA-SW44D MSA-SW44D-030821 20210308	MSA-SW46A MSA-SW46A-030821 20210308	MSA-SW47A MSA-SW47A-030821 20210308	MSA-SW48A MSA-SW48A-030821 20210308	MSA-SW49A MSA-SW49A-030821 20210308
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U
0.41 U	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
0.17 UJ	0.17 U	0.17 U	0.17 U	0.17 U
0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.07 U	0.1 J	0.07 U	0.12 J	0.07 U
0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.15 UJ	0.15 U	0.15 U	0.15 U	0.15 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
0.14 UJ	0.14 U	0.14 U	0.14 U	0.14 U
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
0.83 UJ	0.83 U	0.83 U	0.83 U	0.83 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
0.16 U	2.1	0.33 J	0.16 U	2.2
0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
0.09 UJ	0.09 U	0.09 U	0.09 U	0.09 U
0.35 U	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ
0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

0.2 J	0.23 J	0.08 U	0.3 J	0.08 U
0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.09 U	0.12 J	0.09 U	0.12 J	0.09 U
0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
0.25 J	0.3 J	0.17 J	0.34 J	0.25 J
0.2 J	0.35 J	0.15 U	0.42 J	0.15 U
0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 U
0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
0.1 U	0.1 U	0.1 U	0.1 U	0.71 J
0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
0.2 UJ	2.9	0.83 J	0.21 J	0.83 J