Lockheed Martin
Corporation 6801
Rockledge Drive
MP CCT 246
Bethesda, MD 20817
Telephone (301) 548-2223

LOCKHEED MARTIN

July 28, 2020

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 the Technical Memorandum: March 2020 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 with CDs of the above-referenced document. This technical memorandum presents results for surface water monitoring completed in March 2020 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)
Anuradha Mohanty, MDE
Christine Kline, Lockheed Martin
Norm Varney, Lockheed Martin
Michael Martin, Tetra Tech
Peter Shilland, CDM Smith

cc: (via mail with CD enclosure)
Pete Lekas, EA Environmental

cc: (via shipping courier; with enclosures)
Mark Williams, MAA
Al Pollard, Martin State Airport

Exchange)
Jann Richardson, Lockheed Martin

cc: (via Secure Information

TECHNICAL MEMORANDUM: MARCH 2020 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.

July 2020

Approved by:

Revision: 0



Michael Martin, P.G.
Regional Manager



Josh Mullis
Project Scientist

TABLE OF CONTENTS

Section	Page
Table of Contents	**i**
List of FIGURES	**ii**
List of TABLES	**ii**
Appendices	**ii**
Acronyms and Abbreviations	**iii**
Section 1 Introduction	**1-1**
Section 2 Site Background and Previous Investigations	**2-1**
Section 3 Investigation Approach and Methodology	**3-1**
3.1 Surface Water Sampling	3-1
3.1.1 Surface Water Sampling and Chemical Analyses	3-1
3.1.2 Documentation	3-3
3.1.3 Sample Nomenclature and Handling	3-4
3.1.4 Equipment Decontamination	3-4
3.1.5 Waste Management	3-5
3.2 Data Management	3-5
3.2.1 Data Tracking and Control	3-5
3.2.2 Sample Information	3-6
3.2.3 Project Data Compilation	3-6
3.2.4 Geographic Information System	3-6
3.3 Data Review	3-6
Section 4 Results	**4-1**
4.1 Surface Water Data and Screening Criteria	4-1
4.2 Volatile Organic Compound Surface Water Sampling Results	4-2
4.2.1 Trichloroethene Results	4-2
4.2.2 *cis*-1,2-Dichloroethene Results	4-3
4.2.3 Vinyl Chloride Results	4-3
4.2.4 Additional VOC and Tentatively Identified Compound Results	4-4
Section 5 Summary	**5-1**

TABLE OF CONTENTS (CONTINUED)

Section 6 References 6-1

LIST OF 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 2020 Surface Water Sampling Locations, Frog Mortar Creek
Figure 4-1 Concentrations of *cis*-1,2-Dichloroethene in Surface Water Samples, March 2020
Figure 4-2 Concentrations of Vinyl Chloride in Surface Water Samples, March 2020
Figure 4-3 Concentrations of Trichloroethene, *cis*-1,2-Dichloroethene, and Vinyl Chloride along Surface Water Sampling Transects for March 2019, December 2019, and March 2020, Frog Mortar Creek

LIST OF TABLES

Table 3-1 List of Samples and Chemical Analyses for Surface Water—March 2020
Table 4-1 Statistical Summary of Analytes Detected in Surface Water Samples—March 2020
Table 4-2 Detected Analytes and Screening-Level Exceedances in Surface Water Samples—March 2020
Table 4-3 Comparison of Primary Volatile Organic Compound Results Detected in Surface Water for the March 2019, December 2019, and March 2020 Sampling Rounds

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

ACRONYMS AND ABBREVIATIONS

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
GIS	geographic information system
IDW	investigation derived waste
Lockheed Martin	Lockheed Martin Corporation
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.
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 *2020 Surface Water Sampling Work Plan* (Tetra Tech, 2020a). This technical memorandum presents the analytical results for surface water samples collected from Frog Mortar Creek on March 3, 2020.

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 Dump Road Area of Martin State Airport, or possibly originate from upgradient sources. Results herein are compared to screening levels intended to protect human health and the environment. These data will provide information to:

- provide surface water quality data to determine the concentrations and spatial distributions of volatile organic compounds in Frog Mortar Creek
- provide data to 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 at the Dump Road Area
- 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) is located at 701 Wilson Point Road in Middle River, Maryland, 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) currently operates MSA on behalf of the Maryland Department of Transportation. The current 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 currently 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 treat groundwater containing volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals detected at

concentrations above Maryland Department of the Environment (MDE) groundwater standards. 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 an 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 1997–2019, 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 *2019 Surface Water Sampling Report for Frog Mortar Creek* (Tetra Tech, 2020b), 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 discharged from the Dump Road Area (DRA). The March 2020 data will support 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). The March 2020 sampling is the first of six surface-water sampling rounds planned for 2020. The March sampling round assessed water quality during the end of the winter season, when very minimal surface water recreational use would be expected in Frog Mortar Creek.

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 3, 2020. 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 (the northernmost transect) and SW45 (the southernmost transect) were also included in the sampling program, but these two transects were removed from the sampling program in 2020 as the remaining seven transects fully cover the extent of the targeted area west 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. The Edwards Lane transect (EL-01A through D) was also not sampled during the March 2020 round, but will be sampled during one surface water sampling event this year, in June 2020.

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 2020 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 utilizing 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 the following constituents:

- VOCs, by 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, however, these analytes were removed from the 2020 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 [1.97 feet] at 0757 hours) and after sampling (0.75 meters [2.46 feet] at 1010 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 2020 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 3, 2020 from MSA-SW37A would be labeled "MSA-SW37A-030320." The trip blank was labeled with a "TB" prefix followed by the sample's six-digit submittal date (e.g., TB-030320).

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 was 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 consists of a relational database and geographic information system (GIS) to manage environmental information pertaining to MSA housed in the energy, environment, safety and health (EESH) 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 EESH 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 both inorganic and organic data review (USEPA, 2017a, b) 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 2020 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), except for data qualified as unreliable (UR or *R* flags). 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 is not detected; however, the quantitation or detection limit may be inaccurate or imprecise.

UR The analyte was not detected, but the result is unreliable due to deficiencies in satisfying quality control criteria.

NJ The analyte was tentatively identified as present, and the reported value is the estimated concentration 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 2020 were used to generate a statistical summary table (Table 4-1) and a table summarizing positive detections of chemical analytes (Table 4-2). Samples collected from transects, including 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). 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 trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC)

TCE, *cis*-1,2-DCE, and VC results are also compared to site-specific screening levels developed by Lockheed Martin Corporation (Lockheed Martin) at the request of 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.

Gray shading in Table 4-2 indicates a result that exceeds one or more of the constituent's surface-water screening criteria. A table summarizing analytical data, including nondetect results and detection limits, is attached as Appendix C.

4.2 VOLATILE ORGANIC COMPOUND SURFACE WATER SAMPLING RESULTS

Three VOCs, including vinyl chloride (VC), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and toluene, were detected in the March 2020 surface water samples; their analytical results are summarized below and in Tables 4-1 and 4-2, as well as Figures 4-1 and 4-2. Table 4-3 and Figure 4-3 compare March 2020 results for TCE, *cis*-1,2-DCE, and VC to results detected during the previous sampling round (December 2019) and the sampling round from one year ago (March 2019). Since most 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. In addition, many of the lower VOC detections are estimated (i.e., *J*-qualified); these qualifiers (flags) are also dropped in the following discussion, to improve readability (see Table 4-2 for these details).

The most frequently detected VOC in March 2020 was VC, which was detected in seven of 32 samples. *cis*-1,2-DCE was detected in three of 32 samples, and toluene was detected in two of 32 samples. TCE was not detected in March 2020.

4.2.1 Trichloroethene Results

TCE was not detected during the current sampling round (March 2020) and therefore did not exceed any screening level criterion. The nondetect results are consistent with the decreasing trend of TCE in Frog Mortar Creek since March 2019. TCE was detected at five locations (SW43A-C, SW46A, and SW49A) during the March 2019 sampling round, but was nondetect during the remaining five sampling events in 2019 (June, July, August, September, and December).

4.2.2 *cis*-1,2-Dichloroethene Results

cis-1,2-DCE was detected at three of 32 locations in March 2020, with concentrations ranging from 0.22 micrograms per liter (µg/L) to 0.38 µg/L, and with all detections occurring in transect SW42 (see Figure 4-1). *cis*-1,2-DCE did not exceed its lowest screening level (i.e., respective swimming criteria of 300 µg/L) in any sample in which it was detected.

cis-1,2-DCE was not detected during the previous sampling round but was detected in 30 of 44 samples with a maximum of 2.1 µg/L in March 2019. Similar to TCE, the only *cis*-1,2-DCE detections in 2019 occurred during the March 2019 sampling round, with nondetect results occurring in the remaining five 2019 sampling rounds (June, July, August, September, and December). The average concentration of *cis*-1,2-DCE in this round (0.1 µg/L) is higher than that for the previous round in December 2019 (all samples nondetect for *cis*-1,2-DCE), but lower than the average calculated one year ago (0.29 µg/L in March 2019).

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 2020, as *cis*-1,2-DCE concentrations at transect SW42 decreased with increasing distance from the shore, with concentrations of 0.38 µg/L (SW42A), 0.28 µg/L (SW42B), 0.22 µg/L (SW42C), and non-detect (SW42D).

4.2.3 Vinyl Chloride Results

VC was detected at seven of 32 sampling locations in March 2020, with concentrations ranging from 0.21 µg/L to 1.0 µg/L (Figure 4-2). VC exceeded its lowest site-specific (swimming) screening criterion (0.7 µg/L) at only one location (SW42A) in March 2020, with a concentration of 1 µg/L.

Vinyl chloride was detected during the March and June 2019 sampling rounds, and exceeded its site-specific screening level at three near-shore locations. The highest detection of VC in 2019 (3.3 µg/L) did not exceed its BTAG benchmark of 930 µg/L. VC was not detected during the remaining sampling rounds in 2019 (i.e., in July, August, September, or December 2019); as such, the average VC concentration for this round (0.17 µg/L) is higher than the average for the last round

(nondetect in December 2019), but is slightly lower than the average concentration calculated one year ago (0.279 µg/L in March 2019).

When detected in previous rounds, the distributions of VC in the higher concentration transects tended to decrease with increasing distance from the shore. This trend was observed in March 2020, as VC concentrations at transect SW42 decreased with increasing distance from the shore, with concentrations of 1.0 µg/L (SW42A), 0.64 µg/L (SW42B), 0.50 µg/L (SW42C), and 0.26 µg/L (SW42D).

4.2.4 Additional VOC and Tentatively Identified Compound ("TIC") Results

Toluene was the only other VOC detected during the March 2020 sampling round. Detected concentrations of toluene (0.14 µg/L at SW43D and 0.18 µg/L at SW40B) were below its lowest (ecological surface water) screening level of 2 µg/L. One TIC was detected and identified as isopropyl alcohol.

SECTION 5
SUMMARY

The Lockheed Martin Corporation March 2020 Frog Mortar Creek surface-water investigation results are summarized below:

- Thirty-two surface water samples were collected on March 3, 2020, 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).

- Samples collected in March 2020 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, 2017a, 2017b), 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).

- Volatile organic compounds (vinyl chloride, *cis*-1,2-dichloroethene, and toluene) were detected in the March 2020 surface water samples. Vinyl chloride exceeded its site-specific swimming criteria at one sampling location (SW42A). With that single exception, detected concentrations of all volatile organic compounds were less than human health consumption-of-organism, ecological screening levels, and site-specific swimming screening levels.

- Trichloroethene was not detected during the March 2020 sampling round.

- The next surface water sampling event will occur in June 2020.

SECTION 6
REFERENCES

Code of Maryland Regulations (COMAR), 2016. "Numerical Criteria for Toxic Substances in Surface Waters." COMAR Title 26, Subtitle 08, Chapter 02, Regulation 03. http://www.dsd.state.md.us/comar/comarhtml/26/26.08.02.03-2.htm.

Maryland Aviation Administration (MAA), 2018. Martin State Airport Website: http://www.martinstateairport.com/index.php.

National Oceanic and Atmospheric Administration (NOAA), 2015. *Exceedance Probability Level and Tide Datums, 8574680, Baltimore, Maryland.* Mean-high high-water (MHHW) and mean-low low-water (MLLW) measurements near Baltimore, Maryland, 1983–2001: http://tidesandcurrents.noaa.gov/est/stickdiagram.shtml?stnid=8574680.

National Oceanic and Atmospheric Administration (NOAA), 2016. National Centers for Environmental Information, Washington, D.C., *State of the Climate Reports:* https://www.ncdc.noaa.gov/sotc/drought/201608 or https://www.ncdc.noaa.gov/sotc/drought/201609.

Tetra Tech, Inc. (Tetra Tech), 2009. *Frog Mortar Creek Surface Water and Sediment Investigation Report Phases I, II, and III, Lockheed Martin, Martin State Airport, Middle River, Maryland.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. May.

Tetra Tech, Inc. (Tetra Tech), 2012. *2011 Surface Water Sampling Report, Frog Mortar Creek, Martin State Airport, 701 Wilson Point Road, Middle River, Maryland.* Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. March.

Tetra Tech, Inc. (Tetra Tech), 2018. *2017 Surface Water Sampling Report for Frog Mortar Creek, Martin State Airport, 701 Wilson Point Road, Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. March.

Tetra Tech, Inc. (Tetra Tech), 2020a. *2020 Surface Water Sampling Work Plan, Martin State Airport, 701 Wilson Point Road, Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. January.

Tetra Tech, Inc. (Tetra Tech), 2020b. *2019 Surface Water Sampling Report for Frog Mortar Creek, Martin State Airport, 701 Wilson Point Road, Middle River, Maryland*. Report prepared by Tetra Tech, Inc., Germantown, Maryland for Lockheed Martin Corporation, Bethesda, Maryland. April.

United States Environmental Protection Agency (USEPA) 2006. *Region III Biological Technical Advisory Group Freshwater Screening Benchmarks*. August.

United States Environmental Protection Agency (USEPA), 2017a. *National Functional Guidelines for Inorganic Superfund Methods Data Review,* EPA-540-R-2017-001. 138 pp.

United States Environmental Protection Agency (USEPA), 2017b. *National Functional Guidelines for Organic Superfund Methods Data Review,* EPA-540-R-2017-002. 250 pp.

United States Environmental Protection Agency (USEPA), 2019. *National Recommended Water Quality Criteria: 2019*. U.S. Environmental Protection Agency, Office of Water, Office of Science and Technology. October.

FIGURES

Figure 1-1 Martin State Airport Location Map

Figure 2-1 Martin State Airport and Surrounding Features

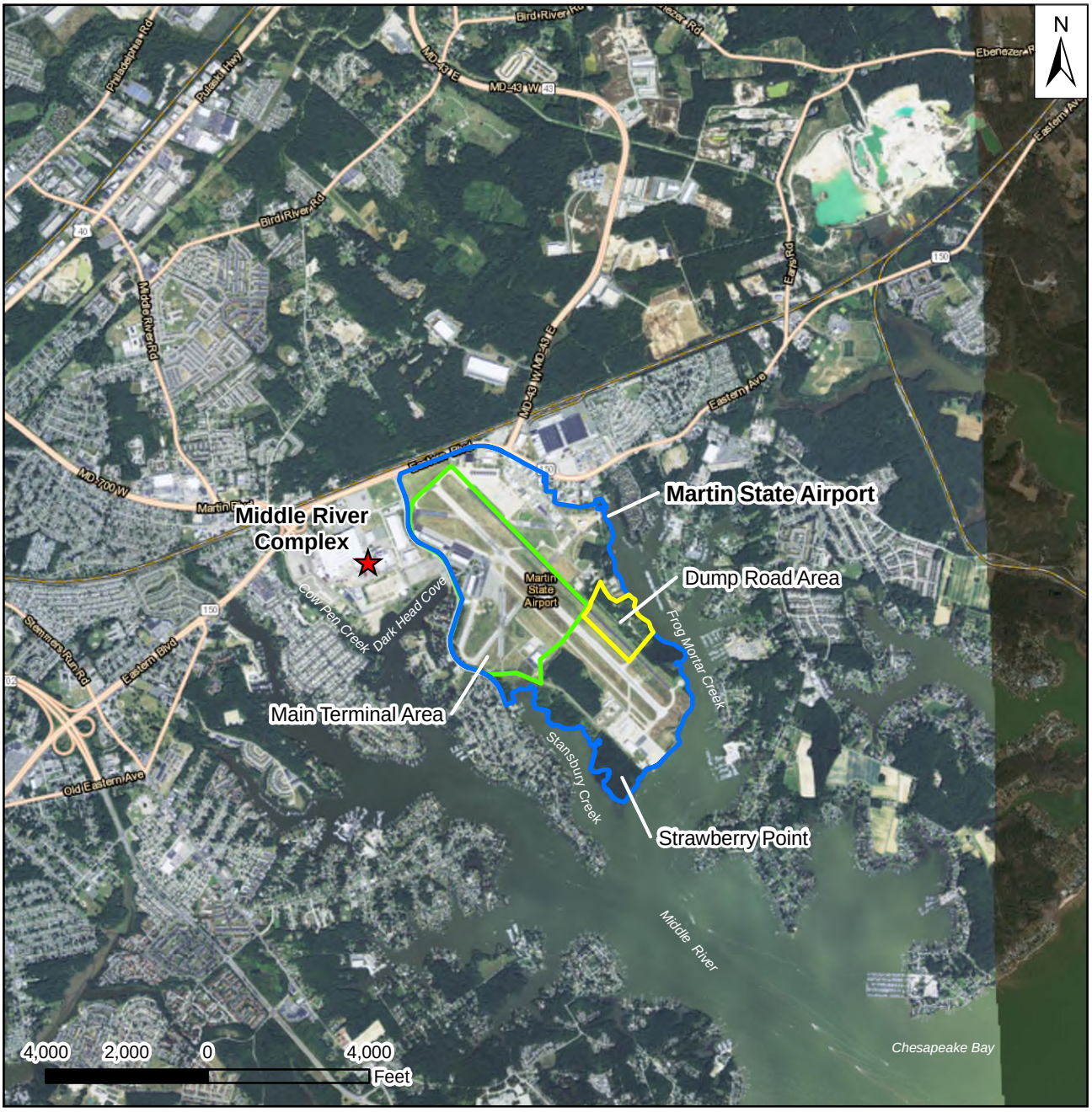
Figure 2-2 Site Features and Areas of Concern, Dump Road Area

Figure 3-1 March 2020 Surface Water Sampling Locations, Frog Mortar Creek

Figure 4-1 Concentrations of *cis*-1,2-Dichloroethene in Surface Water Samples, March 2020

Figure 4-2 Concentrations of Vinyl Chloride in Surface Water Samples, March 2020

Figure 4-3 Concentrations of Trichloroethene, *cis*-1,2-Dichloroethene, and Vinyl Chloride along Surface Water Sampling Transects for March 2019, December 2019, and March 2020, Frog Mortar Creek



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

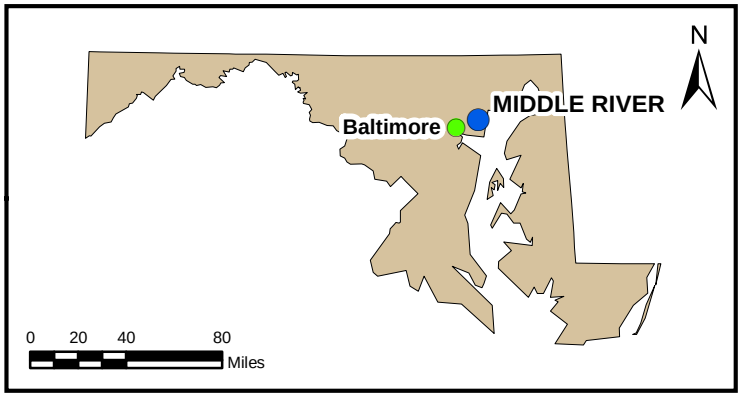


FIGURE 1-1

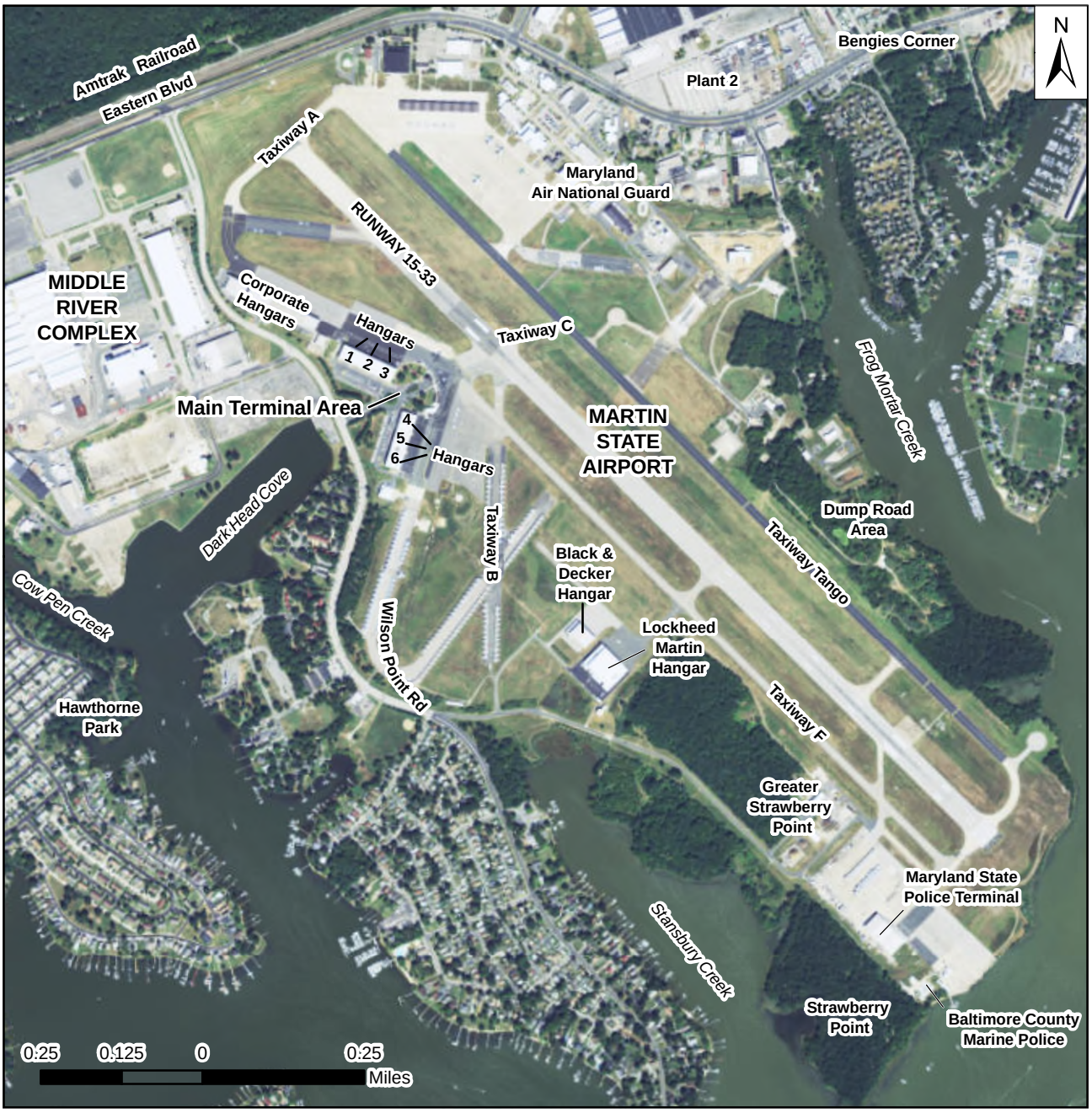
MARTIN STATE AIRPORT
SITE LOCATION MAP

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).

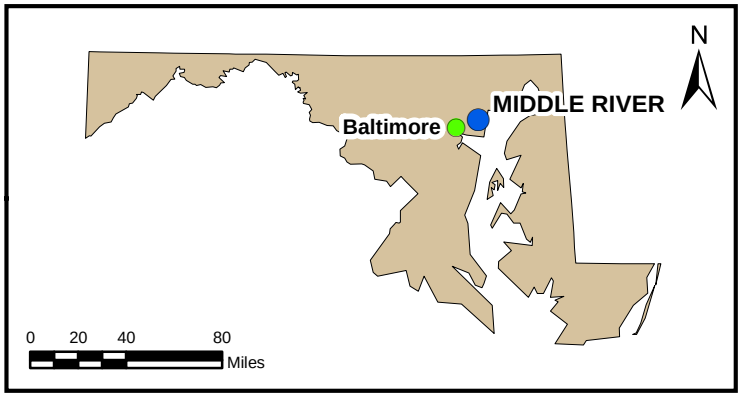


FIGURE 2-1

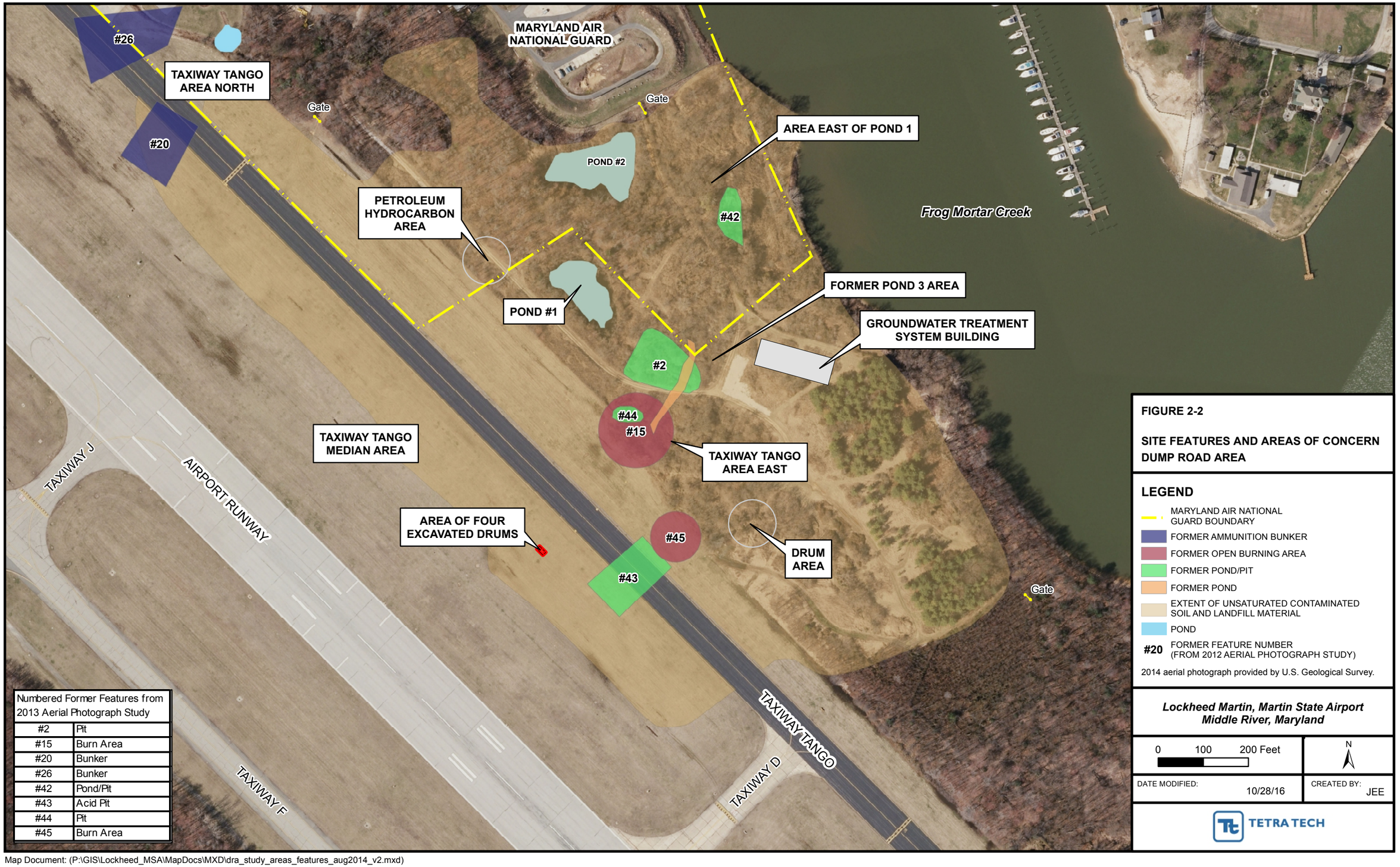
MARTIN STATE AIRPORT AND SURROUNDING FEATURES

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 2020 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

2017 aerial photograph provided by the State of Maryland.

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 150 300 Feet

N

DATE MODIFIED: 04/29/20

CREATED BY: PFO

TETRA TECH

Map Document: GER (K:\Patrick\GIS\Lockheed_MSA\MapDocs\MXDs\fmc_sw_samplocs_mar2020.mxd)
04/29/20 -- PFO



FIGURE 4-1

CONCENTRATIONS OF CIS-1,2-DCE IN SURFACE WATER SAMPLES, MARCH 2020 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

(0.38) = cis-1,2-dichloroethene concentration
J = Estimated Value
Concentration in micrograms per liter (µg/L)

Screening Levels for cis-1,2-Dichloroethene
Ecological Surface Water: 590 µg/L
Human Health (Consumption of Organism): None
Site Specific Swimming: 300 µg/L

Samples collected March 3, 2020.
2017 aerial photograph provided by the State of Maryland.

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 150 300 Feet

N

DATE MODIFIED: 04/29/20

CREATED BY: PFO

TETRA TECH

Map Document: GER (K:\Patrick\GIS\Lockheed_MSA\MapDocs\MXDs\fmc_sw_cis12dce_results_mar2020.mxd)
04/29/20 -- PFO



FIGURE 4-2

CONCENTRATIONS OF VINYL CHLORIDE IN SURFACE WATER SAMPLES, MARCH 2020 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

(0.64) = Vinyl chloride concentration
J = Estimated Value
Concentration in micrograms per liter (µg/L)

Screening Levels for Vinyl Chloride
Ecological Surface Water: 930 µg/L
Human Health (Consumption of Organism): 16 µg/L
Site Specific Swimming: 0.75 µg/L

Samples collected March 3, 2020.
2017 aerial photograph provided by the State of Maryland.

Lockheed Martin, Martin State Airport
Middle River, Maryland

0 150 300 Feet

N

DATE MODIFIED: 06/17/20

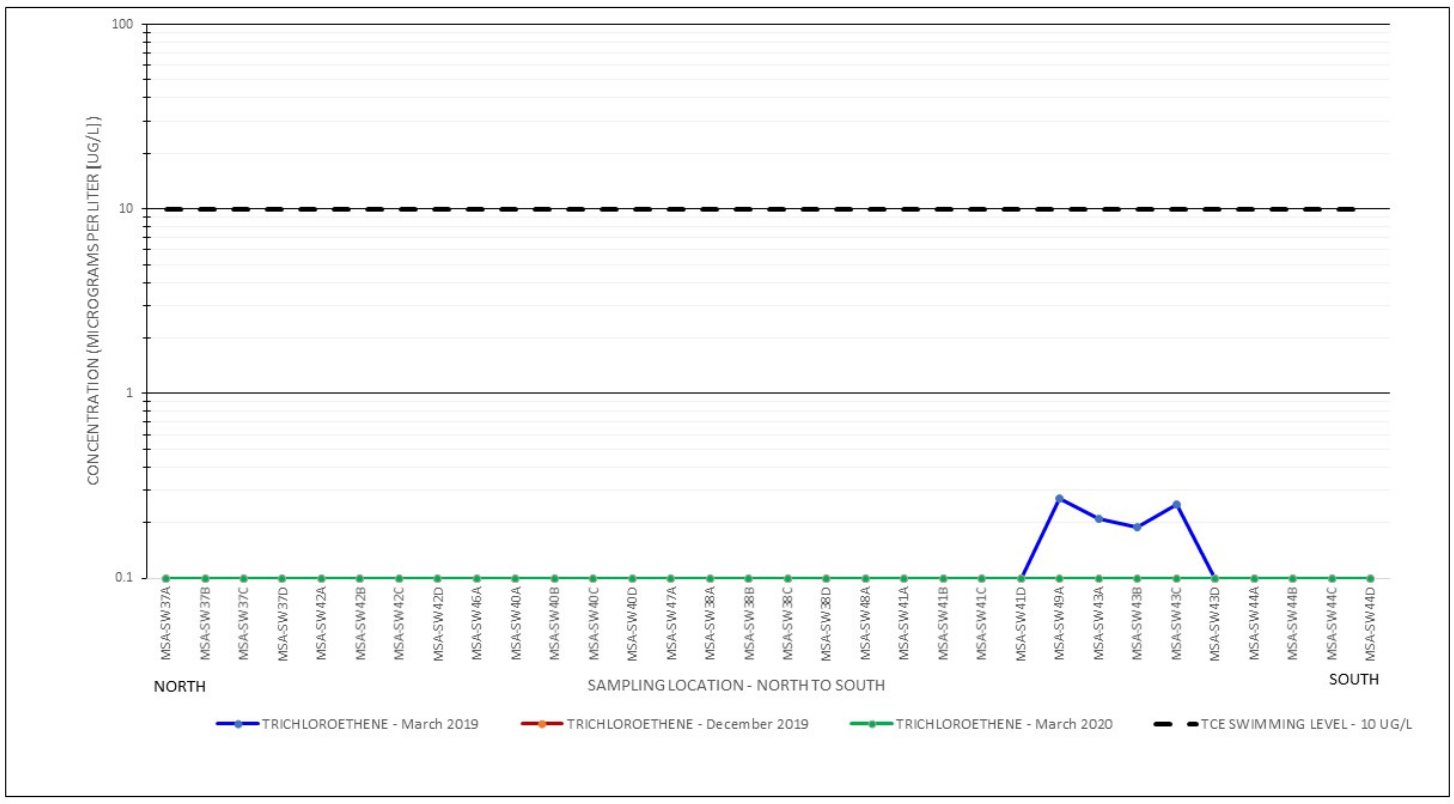
CREATED BY: PFO

TETRA TECH

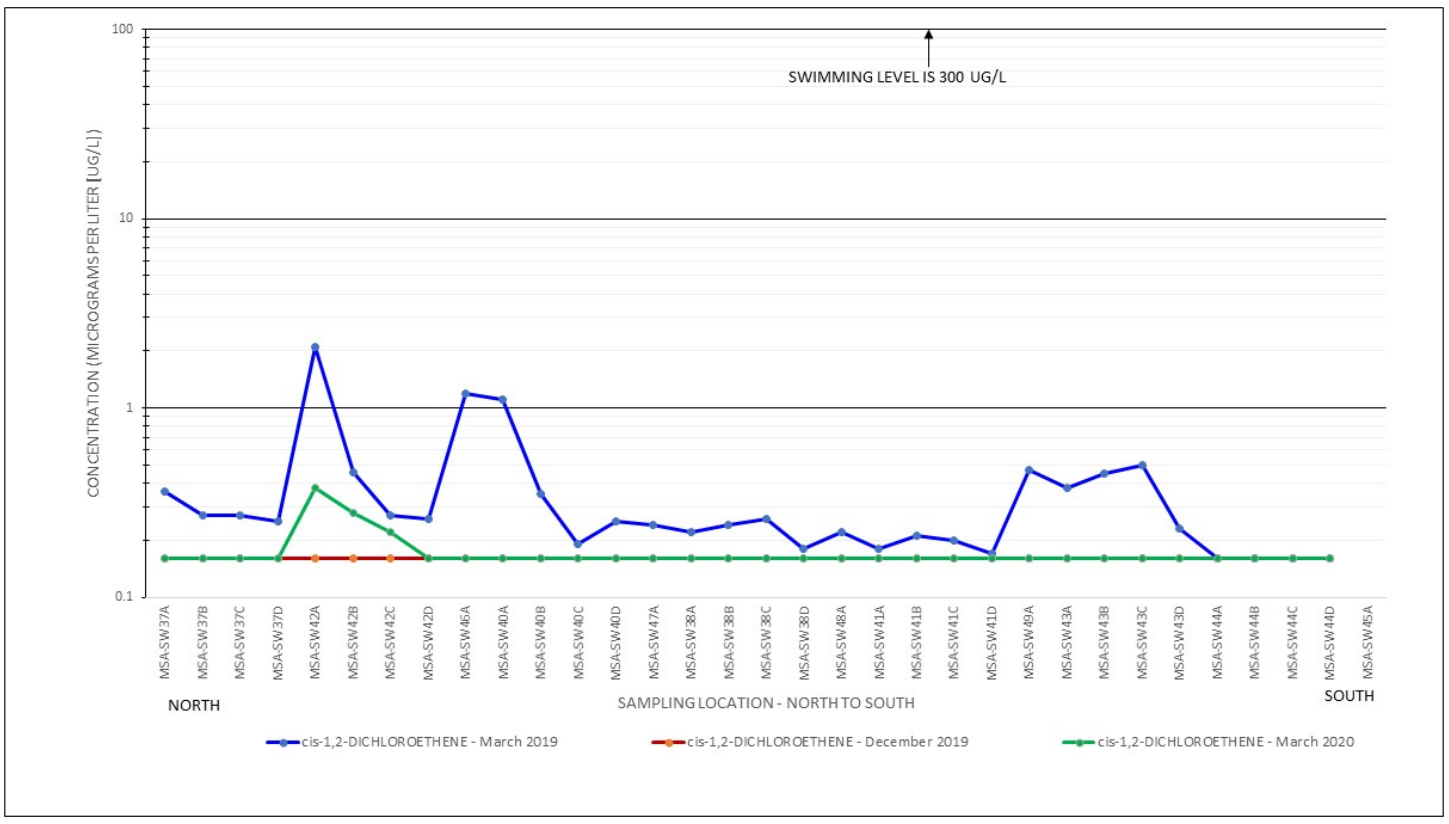
Map Document: GER (K:\Patrick\GIS\Lockheed_MSA\MapDocs\MXDs\fmc_sw_VC_results_mar2020.mxd)
06/17/20 -- PFO

C:\Users\josh.mullis\Desktop\MSA SW 2020 reports\March 2020 report

TRICHLOROETHENE



CIS-1,2-DICHLOROETHENE



VINYL CHLORIDE

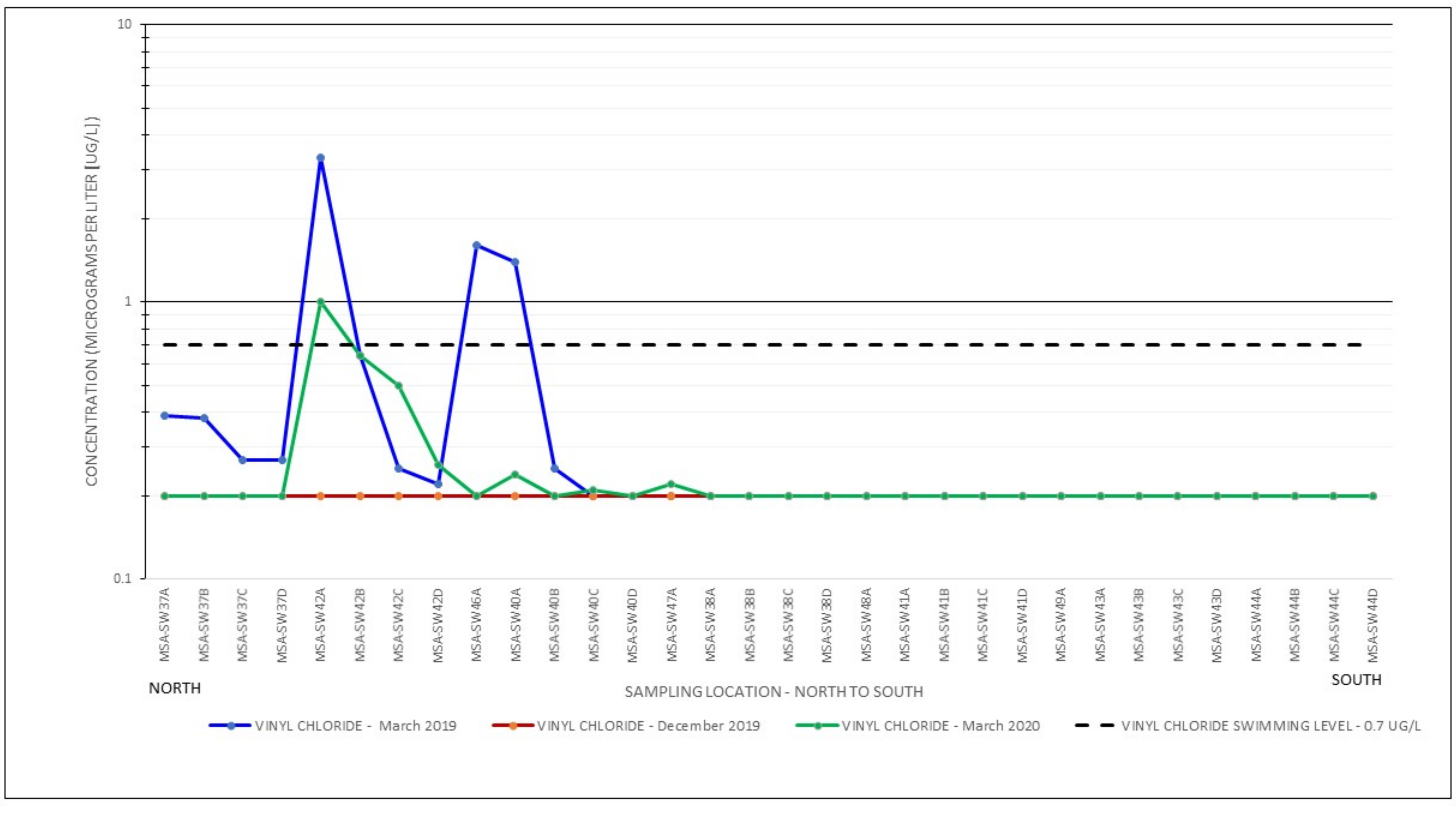


FIGURE 4-3

CONCENTRATIONS OF TRICHLOROETHENE, cis-1,2-DICHLOROETHENE AND VINYL CHLORIDE ALONG SURFACE WATER SAMPLING TRANSECTS FOR MARCH 2019, DECEMBER 2019, AND MARCH 2020
FROG MORTAR CREEK

Lockheed Martin, Martin State Airport
Middle River, Maryland

DATE MODIFIED:	CREATED BY:
4/29/20	JAM

TETRA TECH

TABLES

Table 3-1 List of Samples and Chemical Analyses for Surface Water—March 2020

Table 4-1 Summary of Analytes Detected in Surface Water Samples—March 2020

Table 4-2 Detected Analytes and Screening-Level Exceedances in Surface Water Samples—March 2020

Table 4-3 Comparison of Primary Volatile Organic Compound Results Detected in Surface Water for the March 2019, December 2019, and March 2020 Sampling Rounds

Table 3-1
List of Samples and Chemical Analyses for Surface Water—March 2020
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

Surface water sampling location/ Transect No.[1]	Analytical Requirements Volatile organic compounds (USEPA SW846 8260C) 3x40 mL vials with hydrochloric acid
MSA-SW37	X
MSA-SW38	X
MSA-SW40	X
MSA-SW41	X
MSA-SW42	X
MSA-SW43	X
MSA-SW44	X
MSA-SW46	X
MSA-SW47	X
MSA-SW48	X
MSA-SW49	X
EL-SW01[2]	X[2]

1. Four samples, at locations -A, -B, -C, and -D, will be collected from each transect, except for sampling locations SW46, SW47, SW48, and SW49, where only western shore "A" samples will be collected. See Section 3.1.3 for sample nomenclature/sample ID.

2. The Edwards Lane (EL) transect will only be sampled in June 2020.

mL – milliliter

USEPA – United States Environmental Protection Agency

Table 4-1
Statistical Summary of Analytes Detected in Surface Water Samples--March 2020
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

Parameter	March 2020 Frog Mortar Creek Surface Water Samples										
	Frequency of Detection		Minimum concentration (detects)	Maximum concentration (detects)	Sample with maximum detected concentration	Location of maximum detected concentration	Average of detected results	Average of all results	Minimum concentration (nondetects)	Maximum concentration (nondetects)	Standard deviation
	Number	Percent									
Volatile organic compounds (µg/L)											
CIS-1,2-DICHLOROETHENE	3/32	9	0.22 J	0.38 J	MSA-SW42A-030320	MSA-SW42A	0.293333	0.1	0.16	0.16	0.066429686
VINYL CHLORIDE	7/32	22	0.21 J	1	MSA-SW42A-030320	MSA-SW42A	0.438571	0.174062	0.2	0.2	0.193254961
TOLUENE	2/32	6	0.14 J	0.18 J	MSA-SW40B-030320	MSA-SW40B	0.16	0.075625	0.14	0.14	0.022709597
Volatile organic TIC compounds (µg/L)											
ISOPROPYL ALCOHOL	1/1	100	7.8 NJ	7.8 NJ	MSA-SW44B-030320	MSA-SW44B	7.8	7.8	NULL	NULL	NULL

All samples were collected on March 3, 2020
For non-detects, 1/2 sample quantitation limit was used as a proxy concentration when perfoming calculations.
1/2 the detection limit was used for B qualified data.
J - estimated value
µg/L - micrograms per liter
NJ - analyte was tentatively identified; concentration is estimated

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—March 2020
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

LOCATION SAMPLE ID	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only	Swimming Screening Levels[4]	MSA-SW37A MSA-SW37A-030320	MSA-SW37B MSA-SW37B-030320	MSA-SW37C MSA-SW37C-030320	MSA-SW37D MSA-SW37D-030320	MSA-SW38A MSA-SW38A-030320	MSA-SW38B MSA-SW38B-030320
	Acute	Chronic									
Volatile organic compounds (µg/L)											
CIS-1,2-DICHLOROETHENE	NA	NA	590[4]	NA[1]	300	--	--	--	--	--	--
TOLUENE	NA	NA	2	520[3]	NA	--	--	--	--	--	--
VINYL CHLORIDE	NA	NA	930	24[3]	0.75	--	--	--	--	--	--
Tentatively identified compounds-volatiles (µg/L)											
ISOPROPYL ALCOHOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

All samples were collected on March 3, 2020.
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 $1x10^{-5}$. Values are from 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
4 Site-specific swimming screening levels were developed in 2018 for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride 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
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NJ - tentatively identified at estimated concentration
SW - surface water
µg/L - micrograms per liter
USEPA - United States Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—March 2020
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

LOCATION / SAMPLE ID	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only	Swimming Screening Levels[4]	MSA-SW38C / MSA-SW38C-030320	MSA-SW38D / MSA-SW38D-030320	MSA-SW40A / MSA-SW40A-030320	MSA-SW40B / MSA-SW40B-030320	MSA-SW40C / MSA-SW40C-030320	MSA-SW40D / MSA-SW40D-030320
	Acute	Chronic									
Volatile organic compounds (µg/L)											
CIS-1,2-DICHLOROETHENE	NA	NA	590[4]	NA[1]	300	--	--	--	--	--	--
TOLUENE	NA	NA	2	520[3]	NA	--	--	--	0.18 J	--	--
VINYL CHLORIDE	NA	NA	930	24[3]	0.75	--	--	0.24 J	--	0.21 J	--
Tentatively identified compounds-volatiles (µg/L)											
ISOPROPYL ALCOHOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

All samples were collected on March 3, 2020.
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 $1x10^{-5}$. Values are from 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
4 Site-specific swimming screening levels were developed in 2018 for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride 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
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NJ - tentatively identified at estimated concentration
SW - surface water
µg/L - micrograms per liter
USEPA - United States Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—March 2020
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

LOCATION / SAMPLE ID	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only	Swimming Screening Levels[4]	MSA-SW41A / MSA-SW41A-030320	MSA-SW41B / MSA-SW41B-030320	MSA-SW41C / MSA-SW41C-030320	MSA-SW41D / MSA-SW41D-030320	MSA-SW42A / MSA-SW42A-030320	MSA-SW42B / MSA-SW42B-030320
	Acute	Chronic									
Volatile organic compounds (µg/L)											
CIS-1,2-DICHLOROETHENE	NA	NA	590[4]	NA[1]	300	--	--	--	--	0.38 J	0.28 J
TOLUENE	NA	NA	2	520[3]	NA	--	--	--	--	--	--
VINYL CHLORIDE	NA	NA	930	24[3]	0.75	--	--	--	--	1	0.64
Tentatively identified compounds-volatiles (µg/L)											
ISOPROPYL ALCOHOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

All samples were collected on March 3, 2020.
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 $1x10^{-5}$. Values are from 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
4 Site-specific swimming screening levels were developed in 2018 for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride 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
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NJ - tentatively identified at estimated concentration
SW - surface water
µg/L - micrograms per liter
USEPA - United States Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—March 2020
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

LOCATION / SAMPLE ID	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only	Swimming Screening Levels[4]	MSA-SW42C / MSA-SW42C-030320	MSA-SW42D / MSA-SW42D-030320	MSA-SW43A / MSA-SW43A-030320	MSA-SW43B / MSA-SW43B-030320	MSA-SW43C / MSA-SW43C-030320	MSA-SW43D / MSA-SW43D-030320
	Acute	Chronic									
Volatile organic compounds (µg/L)											
CIS-1,2-DICHLOROETHENE	NA	NA	590[4]	NA[1]	300	0.22 J	--	--	--	--	--
TOLUENE	NA	NA	2	520[3]	NA	--	--	--	--	--	0.14 J
VINYL CHLORIDE	NA	NA	930	24[3]	0.75	0.5	0.26 J	--	--	--	--
Tentatively identified compounds-volatiles (µg/L)											
ISOPROPYL ALCOHOL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

All samples were collected on March 3, 2020.
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 $1x10^{-5}$. Values are from 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
4 Site-specific swimming screening levels were developed in 2018 for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride 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
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NJ - tentatively identified at estimated concentration
SW - surface water
µg/L - micrograms per liter
USEPA - United States Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—March 2020
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

LOCATION / SAMPLE ID	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only	Swimming Screening Levels[4]	MSA-SW44A / MSA-SW44A-030320	MSA-SW44B / MSA-SW44B-030320	MSA-SW44C / MSA-SW44C-030320	MSA-SW44D / MSA-SW44D-030320	MSA-SW46A / MSA-SW46A-030320	MSA-SW47A / MSA-SW47A-030320	MSA-SW48A / MSA-SW48A-030320
	Acute	Chronic										
Volatile organic compounds (µg/L)												
CIS-1,2-DICHLOROETHENE	NA	NA	590[4]	NA[1]	300	--	--	--	--	--	--	--
TOLUENE	NA	NA	2	520[3]	NA	--	--	--	--	--	--	--
VINYL CHLORIDE	NA	NA	930	24[3]	0.75	--	--	--	--	--	0.22 J	--
Tentatively identified compounds-volatiles (µg/L)												
ISOPROPYL ALCOHOL	NA	NA	NA	NA	NA	NA	7.8 NJ	NA	NA	NA	NA	NA

All samples were collected on March 3, 2020.
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 $1x10^{-5}$. Values are from 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
4 Site-specific swimming screening levels were developed in 2018 for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride 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
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NJ - tentatively identified at estimated concentration
SW - surface water
µg/L - micrograms per liter
USEPA - United States Environmental Protection Agency

Table 4-2
Detected Analytes and Screening-Level Exceedances in Surface Water Samples—March 2020
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

LOCATION SAMPLE ID	National Recommended Water Quality Criteria[1]		Ecological Surface Water Screening Level[2]	Human Health Consumption of Organism Only	Swimming Screening Levels[4]	MSA-SW49A MSA-SW49A-030320	Quality control TB-030320-2
	Acute	Chronic					
Volatile organic compounds (µg/L)							
CIS-1,2-DICHLOROETHENE	NA	NA	590[4]	NA[1]	300	--	--
TOLUENE	NA	NA	2	520[3]	NA	--	--
VINYL CHLORIDE	NA	NA	930	24[3]	0.75	--	--
Tentatively identified compounds-volatiles (µg/L)							
ISOPROPYL ALCOHOL	NA	NA	NA	NA	NA	NA	NA

All samples were collected on March 3, 2020.
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 $1x10^{-5}$. Values are from 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
4 Site-specific swimming screening levels were developed in 2018 for trichloroethene, cis-1,2-dichloroethene, and vinyl chloride 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
BTAG - Biological Technical Assistance Group
COMAR- Code of Maryland Regulations
J - estimated concentration
NA - not available
NJ - tentatively identified at estimated concentration
SW - surface water
µg/L - micrograms per liter
USEPA - United States Environmental Protection Agency

Table 4-3
Comparison of Primary Volatile Organic Compound Results Detected in Surface Water for the March 2019, December 2019, and March 2020 Sampling Rounds
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

Location ID	Trichloroethene (µg/L)			cis-1,2-Dichloroethene (µg/L)			Vinyl chloride (µg/L)		
	5-Mar-19	10-Dec-19	3-Mar-20	5-Mar-19	10-Dec-19	3-Mar-20	5-Mar-19	10-Dec-19	3-Mar-20
Average-detections only	**0.204**	--	--	**0.393**	--	**0.293**	**0.815**	--	**0.439**
Average-all samples[(1)]	**0.068**	--	--	**0.294**	--	**0.100**	**0.279**	--	**0.174**
Maximum concentration	**0.27 J**	--	--	**2.1**	--	**0.38 J**	**3.3**	--	**1**
Number of detections/samples	**5/44**	--	--	**30/44**	--	**3/32**	**11/44**	--	**7/32**
MSA-SW37A	0.1 U	0.1 U	0.1 U	**0.36 J**	0.16 U	0.16 U	0.39 J	0.2 U	0.2 U
MSA-SW37B	0.1 U	0.1 U	0.1 U	**0.27 J**	0.16 U	0.16 U	0.38 J	0.2 U	0.2 U
MSA-SW37C	0.1 U	0.1 U	0.1 U	**0.27 J**	0.16 U	0.16 U	0.27 J	0.2 U	0.2 U
MSA-SW37D	0.1 U	0.1 U	0.1 U	**0.25 J**	0.16 U	0.16 U	0.27 J	0.2 U	0.2 U
MSA-SW38A	0.1 U	0.1 U	0.1 U	**0.22 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW38B	0.1 U	0.1 U	0.1 U	**0.24 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW38C	0.1 U	0.1 U	0.1 U	**0.26 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW38D	0.1 U	0.1 U	0.1 U	**0.18 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW40A	0.1 U	0.1 U	0.1 U	**1.1**	0.16 U	0.16 U	1.4	0.2 U	0.24 J
MSA-SW40B	0.1 U	0.1 U	0.1 U	**0.35 J**	0.16 U	0.16 U	0.25 J	0.2 U	0.2 U
MSA-SW40C	0.1 U	0.1 U	0.1 U	**0.19 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.21 J
MSA-SW40D	0.1 U	0.1 U	0.1 U	**0.25 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW41A	0.1 U	0.1 U	0.1 U	**0.18 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW41B	0.1 U	0.1 U	0.1 U	**0.21 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW41C	0.1 U	0.1 U	0.1 U	**0.2 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW41D	0.1 U	0.1 U	0.1 U	**0.17 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW42A	0.1 U	0.1 U	0.1 U	**2.1**	0.16 U	**0.38 J**	3.3	0.2 U	1
MSA-SW42B	0.1 U	0.1 U	0.1 U	**0.46 J**	0.16 U	**0.28 J**	0.64	0.2 U	0.64
MSA-SW42C	0.1 U	0.1 U	0.1 U	**0.27 J**	0.16 U	**0.22 J**	0.25 J	0.2 U	0.5
MSA-SW42D	0.1 U	0.1 U	0.1 U	**0.26 J**	0.16 U	0.16 U	0.22 J	0.2 U	0.26 J
MSA-SW43A	**0.21 J**	0.1 U	0.1 U	**0.38 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW43B	**0.19 J**	0.1 U	0.1 U	**0.45 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW43C	**0.25 J**	0.1 U	0.1 U	**0.5 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW43D	0.1 U	0.1 U	0.1 U	**0.23 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW44A	0.1 U	0.1 U	0.1 U	0.16 U	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW44B	0.1 U	0.1 U	0.1 U	0.16 U	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW44C	0.1 U	0.1 U	0.1 U	0.16 U	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW44D	0.1 U	0.1 U	0.1 U	0.16 U	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U

Table 4-3
Comparison of Primary Volatile Organic Compound Results Detected in Surface Water for the March 2019, December 2019, and March 2020 Sampling Rounds
Frog Mortar Creek, Martin State Airport
Middle River, Maryland

	Trichloroethene (µg/L)			cis-1,2-Dichloroethene (µg/L)			Vinyl chloride (µg/L)		
Location ID	**5-Mar-19**	**10-Dec-19**	**3-Mar-20**	**5-Mar-19**	**10-Dec-19**	**3-Mar-20**	**5-Mar-19**	**10-Dec-19**	**3-Mar-20**
Average-detections only	**0.204**	--	--	**0.393**	--	**0.293**	**0.815**	--	**0.439**
Average-all samples[(1)]	**0.068**	--	--	**0.294**	--	**0.100**	**0.279**	--	**0.174**
Maximum concentration	**0.27 J**	--	--	**2.1**	--	**0.38 J**	**3.3**	--	**1**
Number of detections/samples	**5/44**	--	--	**30/44**	--	**3/32**	**11/44**	--	**7/32**
MSA-SW46A	**0.1 J**	0.1 U	0.1 U	**1.2**	0.16 U	0.16 U	**1.6**	0.2 U	0.2 U
MSA-SW47A	0.1 U	0.1 U	0.1 U	**0.24 J**	0.16 U	0.16 U	0.2 U	0.2 U	**0.22 J**
MSA-SW48A	0.1 U	0.1 U	0.1 U	**0.22 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U
MSA-SW49A	**0.27 J**	0.1 U	0.1 U	**0.47 J**	0.16 U	0.16 U	0.2 U	0.2 U	0.2 U

[1] When calculating averages for all samples, 1/2 sample quantitation limit (for non-detects) or 1/2 detection limit (for B-qualified data) are used as proxy concentrations.
Bold font indicates the analyte was detected in the sample
-- - no average can be calculated (all samples are nondetect)
J - estimated value
µg/L - micrograms per liter

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

Water Quality Field Parameters-March 2020
Frog Mortar Creek
Lockheed Martin, Martin State Airport, Middle River Maryland

Sample ID		Date	Time	pH	Specific conductance (S.C.)	Temperature (Temp.)	Turbidity	Dissolved oxygen (DO)	Salinity	Oxidation-reduction potential (ORP)	Water Depth
Location	Date ID	mo/day/year	24-hour units	Standard unit (S.U.)	MilliSiemens per centimeter (mS/cm)	Degrees Celsius (°C)	Nephelometric turbidity unit (NTU)	Milligrams per liter (mg/L)	Parts per thousand (ppt)	MilliVolts (mV)	Meters
MSA-SW37A	-030320	3/3/2020	0952	8.17	4.33	6.4	13.50	8.24	2.4	248	0.45
MSA-SW37B	-030320	3/3/2020	0955	8.29	4.76	6.8	6.84	8.65	2.5	245	0.90
MSA-SW37C	-030320	3/3/2020	0957	8.33	5.26	6.8	6.34	8.52	2.8	244	>1.6
MSA-SW37D	-030320	3/3/2020	1000	8.51	5.41	6.7	5.79	8.91	2.8	243	>1.6
MSA-SW38A	-030320	3/3/2020	0903	8.42	5.40	6.12	5.79	8.55	2.8	259	0.50
MSA-SW38B	-030320	3/3/2020	0905	8.43	5.42	6.11	6.31	7.50	2.8	259	1.20
MSA-SW38C	-030320	3/3/2020	0909	8.45	5.43	6.19	6.71	8.22	2.8	259	1.30
MSA-SW38D	-030320	3/3/2020	0912	8.46	5.43	6.10	5.93	8.12	2.8	259	1.50
MSA-SW40A	-030320	3/3/2020	0921	8.07	4.28	6.00	9.04	8.02	2.30	264	0.40
MSA-SW40B	-030320	3/3/2020	0924	8.23	4.93	6.21	8.23	8.47	2.70	261	0.60
MSA-SW40C	-030320	3/3/2020	0926	8.36	4.74	5.65	6.47	8.32	2.50	260	1.20
MSA-SW40D	-030320	3/3/2020	0929	8.33	5.00	5.87	5.27	8.28	2.60	260	>1.6
MSA-SW41A	-030320	3/3/2020	0844	8.35	5.45	6.08	5.46	8.21	2.90	259	0.40
MSA-SW41B	-030320	3/3/2020	0849	8.38	5.40	6.06	6.94	8.45	2.80	259	0.70
MSA-SW41C	-030320	3/3/2020	0851	8.40	5.43	6.10	6.57	8.43	2.80	259	1.05
MSA-SW41D	-030320	3/3/2020	0855	8.43	5.44	6.02	4.81	8.60	2.80	259	>1.6
MSA-SW42A	-030320	3/3/2020	0940	8.04	3.67	5.48	6.17	8.34	1.80	260	0.45
MSA-SW42B	-030320	3/3/2020	0943	8.14	4.54	6.16	7.25	7.54	2.40	247	1.10
MSA-SW42C	-030320	3/3/2020	0945	8.19	4.54	6.02	5.65	7.98	2.40	246	1.50
MSA-SW42D	-030320	3/3/2020	0948	8.31	5.36	6.50	5.34	8.33	2.80	244	>1.6
MSA-SW43A	-030320	3/3/2020	0826	8.19	5.44	6.04	5.64	8.76	2.80	258	0.40
MSA-SW43B	-030320	3/3/2020	0830	8.24	5.44	6.07	5.67	8.68	2.80	258	1.20
MSA-SW43C	-030320	3/3/2020	0834	8.30	5.45	6.05	5.02	8.56	2.90	258	1.50
MSA-SW43D	-030320	3/3/2020	0837	8.34	5.46	6.00	5.14	8.75	2.90	258	>1.6
MSA-SW44A	-030320	3/3/2020	0806	6.54	5.36	6.68	5.23	8.21	2.80	280	0.25
MSA-SW44B	-030320	3/3/2020	0813	7.39	5.49	5.94	5.53	8.45	2.90	268	0.90
MSA-SW44C	-030320	3/3/2020	0816	7.83	5.44	5.97	5.92	8.43	2.80	260	1.60
MSA-SW44D	-030320	3/3/2020	0819	8.03	5.42	5.90	5.05	8.60	2.90	259	>1.60
MSA-SW46A	-030320	3/3/2020	0937	8.15	4.38	6.03	7.01	8.34	2.30	261	0.60
MSA-SW47A	-030320	3/3/2020	0916	8.43	5.28	6.14	12.60	8.12	2.80	259	0.40
MSA-SW48A	-030320	3/3/2020	0859	8.41	5.38	6.22	6.31	8.60	2.80	259	0.40
MSA-SW49A	-030320	3/3/2020	0841	8.33	5.44	6.11	4.35	8.75	2.80	259	0.40

Tetra Tech

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC09023

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

Sample ID No.: MSA-SW37A -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0952								
Depth:	1 ft below water	**clear**	**8.17**	**4.33**	**6.36**	**13.5**	**8.24**	**2.4**	**248**
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 0.45 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.: 112IC09023

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

Sample ID No.: MSA-SW37B -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0955								
Depth:	1 ft below water	**clear**	**8.29**	**4.76**	**6.76**	**6.84**	**8.65**	**2.5**	**245**
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.: 112IC09023

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

Sample ID No.: MSA-SW37C -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0957								
Depth:	1 ft below water	**clear**	**8.33**	**5.26**	**6.84**	**6.34**	**8.52**	**2.8**	**244**
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 >1.6 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.: 112IC09023

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

Sample ID No.: MSA-SW37D -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	1000								
Depth:	1 ft below water	**clear**	**8.51**	**5.41**	**6.72**	**5.79**	**8.91**	**2.8**	**243**
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 >1.6 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.: 112IC09023

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

Sample ID No.: MSA-SW38A -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0903								
Depth:	1 ft below water	**clear**	**8.42**	**5.4**	**6.12**	**5.79**	**8.55**	**2.8**	**259**
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 0.5 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.: 112IC09023

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

Sample ID No.: MSA-SW38B -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0905								
Depth:	1 ft below water	**clear**	**8.43**	**5.42**	**6.11**	**6.31**	**7.5**	**2.8**	**259**
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.: 112IC09023

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

Sample ID No.: MSA-SW38C -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0909								
Depth:	1 ft below water	**clear**	**8.45**	**5.43**	**6.19**	**6.71**	**8.22**	**2.8**	**259**
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 1.3 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.: 112IC09023

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

Sample ID No.: MSA-SW38D -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0912								
Depth:	1 ft below water	**clear**	**8.46**	**5.43**	**6.1**	**5.93**	**8.12**	**2.8**	**259**
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.: 112IC09023

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

Sample ID No.: MSA-SW40A -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0921								
Depth:	1 ft below water	**clear**	**8.07**	**4.28**	**6.00**	**9.04**	**8.02**	**2.3**	**264**
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 0.4 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.: 112IC09023

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

Sample ID No.: MSA-SW40B -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0924								
Depth:	1 ft below water	**clear**	**8.23**	**4.93**	**6.21**	**8.23**	**8.47**	**2.7**	**261**
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 0.6 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.: 112IC09023

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

Sample ID No.: MSA-SW40C -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0926								
Depth:	1 ft below water	**clear**	**8.36**	**4.74**	**5.65**	**6.47**	**8.32**	**2.5**	**260**
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.: 112IC09023

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

Sample ID No.: MSA-SW40D -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0929								
Depth:	1 ft below water	**clear**	**8.33**	**5.00**	**5.87**	**5.27**	**8.28**	**2.6**	**260**
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 >1.6 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.: 112IC09023

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

Sample ID No.: MSA-SW41A -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0844								
Depth:	1 ft below water	**clear**	**8.35**	**5.45**	**6.08**	**5.46**	**8.21**	**2.9**	**259**
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 0.4 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.: 112IC09023

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

Sample ID No.: MSA-SW41B -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0849								
Depth:	1 ft below water	**clear**	**8.38**	**5.40**	**6.06**	**6.94**	**8.45**	**2.8**	**259**
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 0.7 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.: 112IC09023

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

Sample ID No.: MSA-SW41C -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0851								
Depth:	1 ft below water	**clear**	**8.40**	**5.43**	**6.10**	**6.57**	**8.43**	**2.8**	**259**
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 1.05 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.: 112IC09023

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

Sample ID No.: MSA-SW41D -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0855								
Depth:	1 ft below water	**clear**	**8.43**	**5.44**	**6.02**	**4.81**	**8.60**	**2.8**	**259**
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 >1.6 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.: 112IC09023

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

Sample ID No.: MSA-SW42A -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0940								
Depth:	1 ft below water	**clear**	**8.04**	**3.67**	**5.48**	**6.17**	**8.34**	**1.8**	**260**
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 0.45 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.: 112IC09023

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

Sample ID No.: MSA-SW42B -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0943								
Depth:	1 ft below water	**clear**	**8.14**	**4.54**	**6.16**	**7.25**	**7.54**	**2.4**	**247**
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 1.1 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.: 112IC09023

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

Sample ID No.: MSA-SW42C -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0945								
Depth:	1 ft below water	**clear**	**8.19**	**4.54**	**6.02**	**5.65**	**7.98**	**2.4**	**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 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.: 112IC09023

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

Sample ID No.: MSA-SW42D -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0948								
Depth:	1 ft below water	**clear**	**8.31**	**5.36**	**6.50**	**5.34**	**8.33**	**2.8**	**244**
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 >1.6 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.: 112IC09023

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

Sample ID No.: MSA-SW43A -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0826								
Depth:	1 ft below water	**clear**	**8.19**	**5.44**	**6.04**	**5.64**	**8.76**	**2.8**	**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 0.4 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.: 112IC09023

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

Sample ID No.: MSA-SW43B -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0830								
Depth:	1 ft below water	**clear**	**8.24**	**5.44**	**6.07**	**5.67**	**8.68**	**2.8**	**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 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.: 112IC09023

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

Sample ID No.: MSA-SW43C -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0834								
Depth:	1 ft below water	**clear**	**8.30**	**5.45**	**6.05**	**5.02**	**8.56**	**2.9**	**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 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.: 112IC09023

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

Sample ID No.: MSA-SW43D -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0837								
Depth:	1 ft below water	**clear**	**8.34**	**5.46**	**6.00**	**5.14**	**8.75**	**2.9**	**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 >1.6 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.: 112IC09023

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

Sample ID No.: MSA-SW44A -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0806								
Depth:	1 ft below water	**clear**	**6.54**	**5.36**	**6.68**	**5.23**	**8.21**	**2.8**	**280**
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 0.25 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.: 112IC09023

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

Sample ID No.: MSA-SW44B -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0813								
Depth:	1 ft below water	**clear**	**7.39**	**5.49**	**5.94**	**5.53**	**8.45**	**2.9**	**268**
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.: 112IC09023

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

Sample ID No.: MSA-SW44C -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0816								
Depth:	1 ft below water	**clear**	**7.83**	**5.44**	**5.97**	**5.92**	**8.43**	**2.8**	**260**
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 1.6 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.: 112IC09023

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

Sample ID No.: MSA-SW44D -030320
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:	3/3/2020	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Time:	0819								
Depth:	1 ft below water	**clear**	**8.03**	**5.42**	**5.90**	**5.05**	**8.60**	**2.9**	**259**
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 >1.60 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.: 112IC09023

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

Sample ID No.: MSA-SW46A -030320
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:	0937	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**8.15**	**4.38**	**6.03**	**7.01**	**8.34**	**2.3**	**261**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 0.6 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.: 112IC09023

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

Sample ID No.: MSA-SW47A -030320
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:	0916	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**8.43**	**5.28**	**6.14**	**12.60**	**8.12**	**2.8**	**259**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 0.4 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.: 112IC09023

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

Sample ID No.: MSA-SW48A -030320
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:	0859	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**8.41**	**5.38**	**6.22**	**6.31**	**8.60**	**2.8**	**259**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 0.4 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.: 112IC09023

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

Sample ID No.: MSA-SW49A -030320
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:	0841	(Visual)	(S.U.)	(mS/cm)	(^{0}C)	(NTU)	(mg/L)	(ppt)	mV
Depth:	1 ft below water	**clear**	**8.33**	**5.44**	**6.11**	**4.35**	**8.75**	**2.8**	**259**
Method:	Grab								

SAMPLE COLLECTION INFORMATION:

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

OBSERVATIONS / NOTES:

Water depth 0.4 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:** **MARCH 24, 2020**

FROM: **J. KALINYAK** **COPIES:** **DV FILE**

SUBJECT: **DATA VALIDATION – VOC**
MSA SURFACE WATER SAMPLING
SAMPLE DELIVERY GROUP (SDG) 240-127107-1

SAMPLES: 33 / Aqueous – Select VOC

MSA-SW37A-030320	MSA-SW37B-030320	MSA-SW37C-030320
MSA-SW37D-030320	MSA-SW38A-030320	MSA-SW38B-030320
MSA-SW38C-030320	MSA-SW38D-030320	MSA-SW40A-030320
MSA-SW40B-030320	MSA-SW40C-030320	MSA-SW40D-030320
MSA-SW41A-030320	MSA-SW41B-030320	MSA-SW41C-030320
MSA-SW41D-030320	MSA-SW42A-030320	MSA-SW42B-030320
MSA-SW42C-030320	MSA-SW42D-030320	MSA-SW43A-030320
MSA-SW43B-030320	MSA-SW43C-030320	MSA-SW43D-030320
MSA-SW44A-030320	MSA-SW44B-030320	MSA-SW44C-030320
MSA-SW44D-030320	MSA-SW46A-030320	MSA-SW47A-030320
MSA-SW48A-030320	MSA-SW49A-030320	TB-030320

Overview

The sample set for the MSA Surface Water Sampling, SDG 240-127107-1, consisted of thirty-two (32) aqueous samples and one (1) aqueous trip blank sample. The aqueous samples and the one (1) aqueous trip blank sample were analyzed for select Volatile Organic Compounds (VOCs) as listed above. No field duplicate sample pairs were included in the sample delivery group (SDG).

The samples were collected by Tetra Tech on March 3, 2020 and analyzed by Eurofins TestAmerica Laboratories, Inc., North Canton, for all analyses. All analyses were conducted in accordance with EPA SW846 Method 8260C for VOCs, 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, blank results, laboratory control sample (LCS) results, surrogate spike recoveries, internal standard recoveries, chromatographic resolution, analyte identification, analyte quantitation, and detection limits. Areas of concern are listed below.

Major Problems

- All samples were acid preserved per the Chain of Custody (COC). Acid preservation results in degradation of the analyte 2-chloroethyl vinyl ether. All samples had non-detected 2-chloroethyl vinyl ether results that were qualified as rejected, (UR), due to the acid preservation.

Minor Problems

- Detected results reported below the limit of quantitation (LOQ) but above the method detection limit (MDL) were qualified as estimated, (J).

- Sample MSA-SW44B-030320 had a tentatively identified compound reported, isopropyl alcohol, by the laboratory. The sample result was qualified tentatively identified, (NJ), with an estimated concentration.

- The initial calibration verification (ICV) percent difference (%D) was greater than the 20% quality control (QC) limit for dichlorodifluoromethane for instrument A3UX16 on 02/10/2020 @ 20:07 affecting SDG samples MSA-SW41D-030320, MSA-SW42A-030320, MSA-SW42B-030320, SA-SW42C-030320, MSA-SW42D-030320, MSA-SW43A-030320, MSA-SW43B-030320, MSA-SW43C-030320, MSA-SW43D-030320, MSA-SW44A-030320, MSA-SW44B-030320, MSA-SW44C-030320, MSA-SW44D-030320, MSA-SW46A-030320, MSA-SW47A-030320, MSA-SW48A-030320, MSA-SW49A-030320, and TB-030320 analyzed for VOCs. All aforementioned SDG samples had non-detected results for dichlorodifluoromethane which were qualified estimated, (UJ).

- The continuing calibration verification (CCV) %Ds were greater than the 20% QC limits for bromomethane, 1,1,2-trichlorotrifluoromethane, and tert butyl alcohol for instrument A3UX16 on 03/06/2020 @ 10:15 affecting SDG samples MSA-SW41D-030320, MSA-SW42A-030320, MSA-SW42B-030320, MSA-SW42C-030320, MSA-SW42D-030320, MSA-SW43A-030320, MSA-SW43B-030320, MSA-SW43C-030320, MSA-SW43D-030320, MSA-SW44A-030320, MSA-SW44B-030320, MSA-SW44C-030320, MSA-SW44D-030320, MSA-SW46A-030320, MSA-SW47A-030320, MSA-SW48A-030320, MSA-SW49A-030320, and TB-030320 analyzed for VOCs. All aforementioned samples had non-detected results for bromomethane, 1,1,2-trichlorotrifluoromethane, and tert butyl alcohol which were qualified estimated, (UJ).

- The ICV %D was greater than the 20% QC limit for dichlorodifluoromethane for instrument A3UX19 on 08/27/2018 @ 19:45 affecting SDG samples MSA-SW37A-030320, MSA-SW37B-030320, MSA-SW37C-030320, MSA-SW37D-030320, MSA-SW38A-030320, MSA-SW38B-030320, MSA-SW38C-030320, MSA-SW38D-030320, MSA-SW40A-030320, MSA-SW40B-030320, MSA-SW40C-030320, MSA-SW40D-030320, MSA-SW41A-030320, MSA-SW41B-030320, and MSA-SW41C-030320 analyzed for VOCs. All aforementioned SDG samples had non-detected results for dichlorodifluoromethane which were qualified estimated, (UJ).

- The CCV %Ds were greater than the 20% QC limits for ethyl tert butyl ether, tert amyl methyl ether, 4-methyl-2-pentanone, 2-hexanone, bromoform, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, naphthalene, and hexachlorobutadiene for instrument A3UX19 on 03/05/2020 @ 18:31 and @ 18:53 affecting SDG samples MSA-SW37A-030320, MSA-SW37B-030320, MSA-SW37C-030320, MSA-SW37D-030320, MSA-SW38A-030320, MSA-SW38B-030320, MSA-SW38C-030320, MSA-SW38D-030320, MSA-SW40A-030320, MSA-SW40B-030320, MSA-SW40C-030320, MSA-SW40D-030320, MSA-SW41A-030320, MSA-SW41B-030320, and MSA-SW41C-030320 analyzed for VOCs. All aforementioned SDG samples had non-detected results for ethyl tert butyl ether, tert amyl methy ether, 4-methyl-2-pentanone, 2-hexanone, bromoform, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, naphthalene, and hexachlorobutadiene which were qualified estimated, (UJ).

Notes

Non-detected sample analyte results were reported to the MDL.

Sample MSA-SW44B-030320 had an unknown peak noted at ~2.25 minutes into the analytical run. The unknown peak was not significant and was not reported. This is noted for completeness.

EXECUTIVE SUMMARY

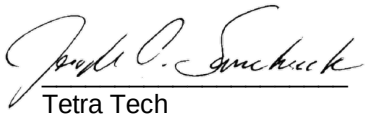
Laboratory Performance Issues: Sample VOC non-detected results were qualified for ICV and CCV %Ds greater than the QC limit.

Other Factors Affecting Data Quality: Detected results reported below the LOQ but above the MDL were qualified as estimated, (J). Sample 2-chloroethyl vinyl ether VOC non-detected results were qualified rejected for a sample preservation issue.

The data for these analyses were reviewed with reference to the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (January 2017), and USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017).



Tetra Tech
Joseph Kalinyak
Data Validator/Environmental Scientist



Tetra Tech
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: 09023	NSAMPLE	MSA-SW37A-030320			MSA-SW37B-030320			MSA-SW37C-030320			MSA-SW37D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-1			240-127107-2			240-127107-3			240-127107-4		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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	U		0.41	U		0.41	U		0.41	U	
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	UJ	C	0.54	UJ	C	0.54	UJ	C	0.54	UJ	C
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	UJ	C	0.26	UJ	C	0.26	UJ	C	0.26	UJ	C
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	UJ	C	0.54	UJ	C	0.54	UJ	C	0.54	UJ	C
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	UJ	C	0.42	UJ	C	0.42	UJ	C	0.42	UJ	C
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	UJ	C	0.76	UJ	C	0.76	UJ	C	0.76	UJ	C
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW38A-030320			MSA-SW38B-030320			MSA-SW38C-030320			MSA-SW38D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-5			240-127107-6			240-127107-7			240-127107-8		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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	U		0.41	U		0.41	U		0.41	U	
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	UJ	C	0.54	UJ	C	0.54	UJ	C	0.54	UJ	C
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	UJ	C	0.26	UJ	C	0.26	UJ	C	0.26	UJ	C
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	UJ	C	0.54	UJ	C	0.54	UJ	C	0.54	UJ	C
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	UJ	C	0.42	UJ	C	0.42	UJ	C	0.42	UJ	C
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	UJ	C	0.76	UJ	C	0.76	UJ	C	0.76	UJ	C
BROMOMETHANE	0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW40A-030320			MSA-SW40B-030320			MSA-SW40C-030320			MSA-SW40D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-9			240-127107-10			240-127107-11			240-127107-12		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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	U		0.41	U		0.41	U		0.41	U	
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	UJ	C	0.54	UJ	C	0.54	UJ	C	0.54	UJ	C
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	UJ	C	0.26	UJ	C	0.26	UJ	C	0.26	UJ	C
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	UJ	C	0.54	UJ	C	0.54	UJ	C	0.54	UJ	C
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	UJ	C	0.42	UJ	C	0.42	UJ	C	0.42	UJ	C
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	UJ	C	0.76	UJ	C	0.76	UJ	C	0.76	UJ	C
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW41A-030320			MSA-SW41B-030320			MSA-SW41C-030320			MSA-SW41D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-13			240-127107-14			240-127107-15			240-127107-16		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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	U		0.41	U		0.41	U		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	UJ	C	0.54	UJ	C	0.54	UJ	C	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	UJ	C	0.26	UJ	C	0.26	UJ	C	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	UJ	C	0.54	UJ	C	0.54	UJ	C	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	UJ	C	0.42	UJ	C	0.42	UJ	C	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	UJ	C	0.76	UJ	C	0.76	UJ	C	0.76	U	
BROMOMETHANE		0.42	U		0.42	U		0.42	U		0.42	UJ	C

PROJ_NO: 09023	NSAMPLE	MSA-SW42A-030320			MSA-SW42B-030320			MSA-SW42C-030320			MSA-SW42D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-17			240-127107-18			240-127107-19			240-127107-20		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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: 09023	NSAMPLE	MSA-SW43A-030320			MSA-SW43B-030320			MSA-SW43C-030320			MSA-SW43D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-21			240-127107-22			240-127107-23			240-127107-24		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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: 09023	NSAMPLE	MSA-SW44A-030320			MSA-SW44B-030320			MSA-SW44C-030320			MSA-SW44D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-25			240-127107-26			240-127107-27			240-127107-28		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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: 09023	NSAMPLE	MSA-SW46A-030320			MSA-SW47A-030320			MSA-SW48A-030320			MSA-SW49A-030320		
SDG: 240-127107-1	LAB_ID	240-127107-30			240-127107-31			240-127107-32			240-127107-33		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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: 09023	NSAMPLE	TB-030320		
SDG: 240-127107-1	LAB_ID	240-127107-29		
FRACTION: OV	SAMP_DATE	3/3/2020		
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	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.41	UJ	C
1,1-DICHLOROETHANE		0.17	U	
1,1-DICHLOROETHENE		0.19	U	
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	U	
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	U	
BROMODICHLOROMETHANE		0.17	U	
BROMOFORM		0.76	U	
BROMOMETHANE		0.42	UJ	C

PROJ_NO: 09023	NSAMPLE	MSA-SW37A-030320			MSA-SW37B-030320			MSA-SW37C-030320			MSA-SW37D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-1			240-127107-2			240-127107-3			240-127107-4		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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	U		1	U		1	U		1	U	
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		0.16	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	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	UJ	C	0.15	UJ	C	0.15	UJ	C	0.15	UJ	C
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	UJ	C	0.83	UJ	C	0.83	UJ	C	0.83	UJ	C
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	UJ	C	0.07	UJ	C	0.07	UJ	C	0.07	UJ	C
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	UJ	C	0.32	UJ	C	0.32	UJ	C	0.32	UJ	C
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		0.14	U		0.14	U		0.14	U		0.14	U	
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: 09023	NSAMPLE	MSA-SW38A-030320			MSA-SW38B-030320			MSA-SW38C-030320			MSA-SW38D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-5			240-127107-6			240-127107-7			240-127107-8		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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	U		1	U		1	U		1	U	
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		0.16	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	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	UJ	C	0.15	UJ	C	0.15	UJ	C	0.15	UJ	C
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	UJ	C	0.83	UJ	C	0.83	UJ	C	0.83	UJ	C
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	UJ	C	0.07	UJ	C	0.07	UJ	C	0.07	UJ	C
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	UJ	C	0.32	UJ	C	0.32	UJ	C	0.32	UJ	C
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		0.14	U		0.14	U		0.14	U		0.14	U	
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: 09023	NSAMPLE	MSA-SW40A-030320			MSA-SW40B-030320			MSA-SW40C-030320			MSA-SW40D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-9			240-127107-10			240-127107-11			240-127107-12		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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	U		1	U		1	U		1	U	
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		0.16	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	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	UJ	C	0.15	UJ	C	0.15	UJ	C	0.15	UJ	C
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	UJ	C	0.83	UJ	C	0.83	UJ	C	0.83	UJ	C
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	UJ	C	0.07	UJ	C	0.07	UJ	C	0.07	UJ	C
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	UJ	C	0.32	UJ	C	0.32	UJ	C	0.32	UJ	C
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		0.14	U		0.18	J	P	0.14	U		0.14	U	
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: 09023	NSAMPLE	MSA-SW41A-030320			MSA-SW41B-030320			MSA-SW41C-030320			MSA-SW41D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-13			240-127107-14			240-127107-15			240-127107-16		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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	U		1	U		1	U		1	U	
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		0.16	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	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	UJ	C	0.15	UJ	C	0.15	UJ	C	0.15	U	
ETHYLBENZENE		0.11	U		0.11	U		0.11	U		0.11	U	
HEXACHLOROBUTADIENE		0.83	UJ	C	0.83	UJ	C	0.83	UJ	C	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	UJ	C	0.07	UJ	C	0.07	UJ	C	0.07	U	
METHYLENE CHLORIDE		2.6	U		2.6	U		2.6	U		2.6	U	
NAPHTHALENE		0.32	UJ	C	0.32	UJ	C	0.32	UJ	C	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	UJ	C
TETRACHLOROETHENE		0.15	U		0.15	U		0.15	U		0.15	U	
TOLUENE		0.14	U		0.14	U		0.14	U		0.14	U	
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: 09023	NSAMPLE	MSA-SW42A-030320			MSA-SW42B-030320			MSA-SW42C-030320			MSA-SW42D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-17			240-127107-18			240-127107-19			240-127107-20		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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	U		1	U		1	U		1	U	
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		0.38	J	P	0.28	J	P	0.22	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	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		0.08	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	U		0.14	U		0.14	U		0.14	U	
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: 09023	NSAMPLE	MSA-SW43A-030320			MSA-SW43B-030320			MSA-SW43C-030320			MSA-SW43D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-21			240-127107-22			240-127107-23			240-127107-24		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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	U		1	U		1	U		1	U	
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		0.16	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	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		0.08	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	U		0.14	U		0.14	U		0.14	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: 09023	NSAMPLE	MSA-SW44A-030320			MSA-SW44B-030320			MSA-SW44C-030320			MSA-SW44D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-25			240-127107-26			240-127107-27			240-127107-28		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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	U		1	U		1	U		1	U	
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		0.16	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	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		0.08	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	U		0.14	U		0.14	U		0.14	U	
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: 09023	NSAMPLE	MSA-SW46A-030320			MSA-SW47A-030320			MSA-SW48A-030320			MSA-SW49A-030320		
SDG: 240-127107-1	LAB_ID	240-127107-30			240-127107-31			240-127107-32			240-127107-33		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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	U		1	U		1	U		1	U	
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		0.16	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	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		0.08	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	U		0.14	U		0.14	U		0.14	U	
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: 09023	NSAMPLE	TB-030320		
SDG: 240-127107-1	LAB_ID	240-127107-29		
FRACTION: OV	SAMP_DATE	3/3/2020		
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	U	
CHLOROETHANE		0.83	U	
CHLOROFORM		0.13	U	
CHLOROMETHANE		0.2	U	
CIS-1,2-DICHLOROETHENE		0.16	U	
CIS-1,3-DICHLOROPROPENE		0.61	U	
DIBROMOMETHANE		0.09	U	
DICHLORODIFLUOROMETHANE		0.35	UJ	C
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	UJ	C
TETRACHLOROETHENE		0.15	U	
TOLUENE		0.14	U	
TOTAL XYLENES		0.15	U	
TRANS-1,2-DICHLOROETHENE		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.67	U	
TRICHLOROETHENE		0.1	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW37A-030320			MSA-SW37B-030320			MSA-SW37C-030320			MSA-SW37D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-1			240-127107-2			240-127107-3			240-127107-4		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW38A-030320			MSA-SW38B-030320			MSA-SW38C-030320			MSA-SW38D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-5			240-127107-6			240-127107-7			240-127107-8		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW40A-030320			MSA-SW40B-030320			MSA-SW40C-030320			MSA-SW40D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-9			240-127107-10			240-127107-11			240-127107-12		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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		0.24	J	P	0.2	U		0.21	J	P	0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW41A-030320			MSA-SW41B-030320			MSA-SW41C-030320			MSA-SW41D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-13			240-127107-14			240-127107-15			240-127107-16		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW42A-030320			MSA-SW42B-030320			MSA-SW42C-030320			MSA-SW42D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-17			240-127107-18			240-127107-19			240-127107-20		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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		1			0.64			0.5			0.26	J	P

PROJ_NO: 09023	NSAMPLE	MSA-SW43A-030320			MSA-SW43B-030320			MSA-SW43C-030320			MSA-SW43D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-21			240-127107-22			240-127107-23			240-127107-24		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW44A-030320			MSA-SW44B-030320			MSA-SW44C-030320			MSA-SW44D-030320		
SDG: 240-127107-1	LAB_ID	240-127107-25			240-127107-26			240-127107-27			240-127107-28		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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		0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW46A-030320			MSA-SW47A-030320			MSA-SW48A-030320			MSA-SW49A-030320		
SDG: 240-127107-1	LAB_ID	240-127107-30			240-127107-31			240-127107-32			240-127107-33		
FRACTION: OV	SAMP_DATE	3/3/2020			3/3/2020			3/3/2020			3/3/2020		
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		0.22	J	P	0.2	U		0.2	U	

PROJ_NO: 09023	NSAMPLE	TB-030320		
SDG: 240-127107-1	LAB_ID	240-127107-29		
FRACTION: OV	SAMP_DATE	3/3/2020		
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	U	

PROJ_NO: 09023	NSAMPLE	MSA-SW44B-030320		
SDG: 240-127107-1	LAB_ID	240-127107-26		
FRACTION: TICOV	SAMP_DATE	3/3/2020		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
ISOPROPYL ALCOHOL		7.8	NJ	Z1

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

Matrix: Water Lab File ID: U1913214.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:52

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

Matrix: Water Lab File ID: U1913214.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:52

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

Matrix: Water Lab File ID: U1913214.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:52

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-130
460-00-4	4-Bromofluorobenzene (Surr)	89		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	102		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

Matrix: Water Lab File ID: U1913214.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:52

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

Matrix: Water Lab File ID: U1913214.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:52

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

Matrix: Water Lab File ID: U1913215.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:55

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:54

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

Matrix: Water Lab File ID: U1913215.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:55

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:54

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

Matrix: Water Lab File ID: U1913215.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:55

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:54

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-130
460-00-4	4-Bromofluorobenzene (Surr)	91		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	103		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

Matrix: Water Lab File ID: U1913215.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:55

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:54

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.: 425546 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I-TIC 8260C

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

Matrix: Water Lab File ID: U1913215.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:55

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:54

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Matrix: Water Lab File ID: U1913216.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Matrix: Water Lab File ID: U1913216.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Matrix: Water Lab File ID: U1913216.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
460-00-4	4-Bromofluorobenzene (Surr)	90		47-134
2037-26-5	Toluene-d8 (Surr)	99		69-122
1868-53-7	Dibromofluoromethane (Surr)	103		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Matrix: Water Lab File ID: U1913216.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:16

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Matrix: Water Lab File ID: U1913216.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:16

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Matrix: Water Lab File ID: U1913217.d

Analysis Method: 8260C Date Collected: 03/03/2020 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Matrix: Water Lab File ID: U1913217.d

Analysis Method: 8260C Date Collected: 03/03/2020 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Matrix: Water Lab File ID: U1913217.d

Analysis Method: 8260C Date Collected: 03/03/2020 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
460-00-4	4-Bromofluorobenzene (Surr)	92		47-134
2037-26-5	Toluene-d8 (Surr)	101		69-122
1868-53-7	Dibromofluoromethane (Surr)	103		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Matrix: Water Lab File ID: U1913217.d

Analysis Method: 8260C Date Collected: 03/03/2020 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Matrix: Water Lab File ID: U1913217.d

Analysis Method: 8260C Date Collected: 03/03/2020 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

Matrix: Water Lab File ID: U1913218.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:02

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

Matrix: Water Lab File ID: U1913218.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:02

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

Matrix: Water Lab File ID: U1913218.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:02

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
460-00-4	4-Bromofluorobenzene (Surr)	90		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	102		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

Matrix: Water Lab File ID: U1913218.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:02

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

Matrix: Water Lab File ID: U1913218.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:02

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Matrix: Water Lab File ID: U1913219.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:05

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Matrix: Water Lab File ID: U1913219.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:05

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Matrix: Water Lab File ID: U1913219.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:05

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-130
460-00-4	4-Bromofluorobenzene (Surr)	90		47-134
2037-26-5	Toluene-d8 (Surr)	97		69-122
1868-53-7	Dibromofluoromethane (Surr)	103		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Matrix: Water Lab File ID: U1913219.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:05

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:24

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Matrix: Water Lab File ID: U1913219.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:05

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:24

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Matrix: Water Lab File ID: U1913220.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Matrix: Water Lab File ID: U1913220.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Matrix: Water Lab File ID: U1913220.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
460-00-4	4-Bromofluorobenzene (Surr)	91		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	103		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Matrix: Water Lab File ID: U1913220.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Matrix: Water Lab File ID: U1913220.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Matrix: Water Lab File ID: U1913221.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:09

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Matrix: Water Lab File ID: U1913221.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:09

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Matrix: Water Lab File ID: U1913221.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:09

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-130
460-00-4	4-Bromofluorobenzene (Surr)	90		47-134
2037-26-5	Toluene-d8 (Surr)	97		69-122
1868-53-7	Dibromofluoromethane (Surr)	103		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Matrix: Water Lab File ID: U1913221.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:09

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Matrix: Water Lab File ID: U1913221.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:09

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Matrix: Water Lab File ID: U1913222.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:21

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Matrix: Water Lab File ID: U1913222.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:21

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.24	J	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Matrix: Water Lab File ID: U1913222.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:21

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
460-00-4	4-Bromofluorobenzene (Surr)	89		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	107		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Matrix: Water Lab File ID: U1913222.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:21

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Matrix: Water Lab File ID: U1913222.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:21

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Matrix: Water Lab File ID: U1913223.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:24

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:54

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Matrix: Water Lab File ID: U1913223.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:24

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:54

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Matrix: Water Lab File ID: U1913223.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:24

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:54

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
460-00-4	4-Bromofluorobenzene (Surr)	89		47-134
2037-26-5	Toluene-d8 (Surr)	96		69-122
1868-53-7	Dibromofluoromethane (Surr)	102		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Matrix: Water Lab File ID: U1913223.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:24

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:54

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Matrix: Water Lab File ID: U1913223.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:24

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:54

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Matrix: Water Lab File ID: U1913224.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Matrix: Water Lab File ID: U1913224.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.21	J	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Matrix: Water Lab File ID: U1913224.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
460-00-4	4-Bromofluorobenzene (Surr)	92		47-134
2037-26-5	Toluene-d8 (Surr)	99		69-122
1868-53-7	Dibromofluoromethane (Surr)	107		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Matrix: Water Lab File ID: U1913224.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:16

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Matrix: Water Lab File ID: U1913224.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:16

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Matrix: Water Lab File ID: U1913225.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Matrix: Water Lab File ID: U1913225.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Matrix: Water Lab File ID: U1913225.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
460-00-4	4-Bromofluorobenzene (Surr)	90		47-134
2037-26-5	Toluene-d8 (Surr)	99		69-122
1868-53-7	Dibromofluoromethane (Surr)	104		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Matrix: Water Lab File ID: U1913225.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Matrix: Water Lab File ID: U1913225.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Matrix: Water Lab File ID: U1913226.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:44

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:01

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Matrix: Water Lab File ID: U1913226.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:44

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:01

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Matrix: Water Lab File ID: U1913226.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:44

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:01

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	96		47-134
2037-26-5	Toluene-d8 (Surr)	103		69-122
1868-53-7	Dibromofluoromethane (Surr)	107		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Matrix: Water Lab File ID: U1913226.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:44

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:01

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Matrix: Water Lab File ID: U1913226.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:44

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:01

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Matrix: Water Lab File ID: U1913227.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:49

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Matrix: Water Lab File ID: U1913227.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:49

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Matrix: Water Lab File ID: U1913227.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:49

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
460-00-4	4-Bromofluorobenzene (Surr)	88		47-134
2037-26-5	Toluene-d8 (Surr)	97		69-122
1868-53-7	Dibromofluoromethane (Surr)	105		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Matrix: Water Lab File ID: U1913227.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:49

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:24

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Matrix: Water Lab File ID: U1913227.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:49

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:24

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Matrix: Water Lab File ID: U1913228.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:51

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:46

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Matrix: Water Lab File ID: U1913228.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:51

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:46

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Matrix: Water Lab File ID: U1913228.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:51

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:46

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
460-00-4	4-Bromofluorobenzene (Surr)	86		47-134
2037-26-5	Toluene-d8 (Surr)	96		69-122
1868-53-7	Dibromofluoromethane (Surr)	100		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Matrix: Water Lab File ID: U1913228.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:51

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:46

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Matrix: Water Lab File ID: U1913228.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:51

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:46

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Matrix: Water Lab File ID: UXM27186.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:55

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:01

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Matrix: Water Lab File ID: UXM27186.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:55

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:01

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Matrix: Water Lab File ID: UXM27186.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:55

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:01

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	118		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Matrix: Water Lab File ID: UXM27186.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:55

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:01

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Matrix: Water Lab File ID: UXM27186.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:55

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:01

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Matrix: Water Lab File ID: UXM27187.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:25

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Matrix: Water Lab File ID: UXM27187.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:25

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.38	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0		0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Matrix: Water Lab File ID: UXM27187.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:25

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	118		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Matrix: Water Lab File ID: UXM27187.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:25

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Matrix: Water Lab File ID: UXM27187.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:25

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Matrix: Water Lab File ID: UXM27188.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:43

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:50

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Matrix: Water Lab File ID: UXM27188.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:43

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:50

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.28	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.64		0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Matrix: Water Lab File ID: UXM27188.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:43

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:50

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	117		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Matrix: Water Lab File ID: UXM27188.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:43

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:50

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Matrix: Water Lab File ID: UXM27188.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:43

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:50

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Matrix: Water Lab File ID: UXM27189.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Matrix: Water Lab File ID: UXM27189.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.22	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50		0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Matrix: Water Lab File ID: UXM27189.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	109		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	120		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Matrix: Water Lab File ID: UXM27189.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Matrix: Water Lab File ID: UXM27189.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Matrix: Water Lab File ID: UXM27190.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Matrix: Water Lab File ID: UXM27190.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.26	J	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Matrix: Water Lab File ID: UXM27190.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
2037-26-5	Toluene-d8 (Surr)	92		69-122
1868-53-7	Dibromofluoromethane (Surr)	117		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Matrix: Water Lab File ID: UXM27190.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Matrix: Water Lab File ID: UXM27190.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Matrix: Water Lab File ID: UXM27191.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Matrix: Water Lab File ID: UXM27191.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Matrix: Water Lab File ID: UXM27191.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	113		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Matrix: Water Lab File ID: UXM27191.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Matrix: Water Lab File ID: UXM27191.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Matrix: Water Lab File ID: UXM27192.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:30

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Matrix: Water Lab File ID: UXM27192.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:30

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Matrix: Water Lab File ID: UXM27192.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:30

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	116		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Matrix: Water Lab File ID: UXM27192.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:30

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Matrix: Water Lab File ID: UXM27192.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:30

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Matrix: Water Lab File ID: UXM27193.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 17:55

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Matrix: Water Lab File ID: UXM27193.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 17:55

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Matrix: Water Lab File ID: UXM27193.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 17:55

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	96		69-122
1868-53-7	Dibromofluoromethane (Surr)	113		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Matrix: Water Lab File ID: UXM27193.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 17:55

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Matrix: Water Lab File ID: UXM27193.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 17:55

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Matrix: Water Lab File ID: UXM27194.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Matrix: Water Lab File ID: UXM27194.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Matrix: Water Lab File ID: UXM27194.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	116		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Matrix: Water Lab File ID: UXM27194.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Matrix: Water Lab File ID: UXM27194.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Matrix: Water Lab File ID: UXM27195.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:06

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Matrix: Water Lab File ID: UXM27195.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:06

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Matrix: Water Lab File ID: UXM27195.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:06

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-130
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	113		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Matrix: Water Lab File ID: UXM27195.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:06

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Matrix: Water Lab File ID: UXM27195.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:06

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Matrix: Water Lab File ID: UXM27196.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:13

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:10

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Matrix: Water Lab File ID: UXM27196.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:13

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:10

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Matrix: Water Lab File ID: UXM27196.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:13

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:10

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-130
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
2037-26-5	Toluene-d8 (Surr)	92		69-122
1868-53-7	Dibromofluoromethane (Surr)	123		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Matrix: Water Lab File ID: UXM27196.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:13

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:10

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.: 425629 Units: ug/L

Number TICs Found: 2 TIC Result Total: 10.3

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.25	2.5	T J	
67-63-0	Isopropyl Alcohol	3.49	7.8	T J N	78%

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Matrix: Water Lab File ID: UXM27196.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:13

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:10

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Matrix: Water Lab File ID: UXM27197.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:34

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Matrix: Water Lab File ID: UXM27197.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:34

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Matrix: Water Lab File ID: UXM27197.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:34

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-130
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
2037-26-5	Toluene-d8 (Surr)	92		69-122
1868-53-7	Dibromofluoromethane (Surr)	121		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Matrix: Water Lab File ID: UXM27197.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:34

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Matrix: Water Lab File ID: UXM27197.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:34

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Matrix: Water Lab File ID: UXM27198.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:19

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:59

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Matrix: Water Lab File ID: UXM27198.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:19

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:59

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Matrix: Water Lab File ID: UXM27198.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:19

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:59

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	120		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Matrix: Water Lab File ID: UXM27198.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:19

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:59

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Matrix: Water Lab File ID: UXM27198.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:19

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:59

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

Matrix: Water Lab File ID: UXM27199.D

Analysis Method: 8260C Date Collected: 03/03/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:24

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

Matrix: Water Lab File ID: UXM27199.D

Analysis Method: 8260C Date Collected: 03/03/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:24

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

Matrix: Water Lab File ID: UXM27199.D

Analysis Method: 8260C Date Collected: 03/03/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:24

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		75-130
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	121		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

Matrix: Water Lab File ID: UXM27199.D

Analysis Method: 8260C Date Collected: 03/03/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:24

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

Matrix: Water Lab File ID: UXM27199.D

Analysis Method: 8260C Date Collected: 03/03/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:24

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

Matrix: Water Lab File ID: UXM27200.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:49

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

Matrix: Water Lab File ID: UXM27200.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:49

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

Matrix: Water Lab File ID: UXM27200.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:49

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	121		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

Matrix: Water Lab File ID: UXM27200.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:49

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

Matrix: Water Lab File ID: UXM27200.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:49

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Matrix: Water Lab File ID: UXM27201.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Matrix: Water Lab File ID: UXM27201.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.22	J	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Matrix: Water Lab File ID: UXM27201.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
2037-26-5	Toluene-d8 (Surr)	92		69-122
1868-53-7	Dibromofluoromethane (Surr)	114		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Matrix: Water Lab File ID: UXM27201.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Matrix: Water Lab File ID: UXM27201.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Matrix: Water Lab File ID: UXM27202.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Matrix: Water Lab File ID: UXM27202.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Matrix: Water Lab File ID: UXM27202.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		75-130
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	114		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Matrix: Water Lab File ID: UXM27202.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Matrix: Water Lab File ID: UXM27202.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

Matrix: Water Lab File ID: UXM27203.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 22:04

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

Matrix: Water Lab File ID: UXM27203.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 22:04

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

Matrix: Water Lab File ID: UXM27203.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 22:04

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		75-130
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
2037-26-5	Toluene-d8 (Surr)	97		69-122
1868-53-7	Dibromofluoromethane (Surr)	116		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

Matrix: Water Lab File ID: UXM27203.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 22:04

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

Matrix: Water Lab File ID: UXM27203.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 22:04

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

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

APPENDIX C

SUPPORT DOCUMENTATION

3.9/46 Baltimore #201

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

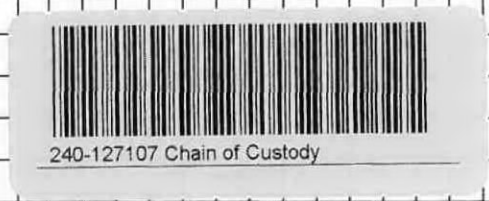
Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 3/3/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: John McFadden	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			
Site: MSA Frog Mortar Creek	☐ 2 days			Sampler: J Mullis
Project # 112IC09023	☐ 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-030320	3/3/2020	0952	SW	Water	3		x	
MSA-SW37B-030320	3/3/2020	0955	SW	Water	3		x	
MSA-SW37C-030320	3/3/2020	0957	SW	Water	3		x	
MSA-SW37D-030320	3/3/2020	1000	SW	Water	3		x	
MSA-SW38A-030320	3/3/2020	0903	SW	Water	3		x	
MSA-SW38B-030320	3/3/2020	0905	SW	Water	3		x	
MSA-SW38C-030320	3/3/2020	0909	SW	Water	3		x	
MSA-SW38D-030320	3/3/2020	0912	SW	Water	3		x	
MSA-SW40A-030320	3/3/2020	0921	SW	Water	3		x	
MSA-SW40B-030320	3/3/2020	0924	SW	Water	3		x	
MSA-SW40C-030320	3/3/2020	0926	SW	Water	3		x	
MSA-SW40D-030320	3/3/2020	0929	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: Dissolved Metals and DOC filtered in field

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech Inc	3/3/2020		BTA	3/3/20 1520
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BTA	3/3/20 1700		ETA	3-4-20 930
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: 3/3/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: John McFadden	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			
Site: MSA Frog Mortar Creek	☐ 2 days			Sampler: J Mullis
Project # 112IC09023	☐ 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-030320	3/3/2020	0844	SW	Water	3		x	
MSA-SW41B-030320	3/3/2020	0849	SW	Water	3		x	
MSA-SW41C-030320	3/3/2020	0851	SW	Water	3		x	
MSA-SW41D-030320	3/3/2020	0855	SW	Water	3		x	
MSA-SW42A-030320	3/3/2020	0940	SW	Water	3		x	
MSA-SW42B-030320	3/3/2020	0943	SW	Water	3		x	
MSA-SW42C-030320	3/3/2020	0945	SW	Water	3		x	
MSA-SW42D-030320	3/3/2020	0948	SW	Water	3		x	
MSA-SW43A-030320	3/3/2020	0826	SW	Water	3		x	
MSA-SW43B-030320	3/3/2020	0830	SW	Water	3		x	
MSA-SW43C-030320	3/3/2020	0834	SW	Water	3		x	
MSA-SW43D-030320	3/3/2020	0837	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: Dissolved Metals and DOC filtered in field

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Tetra Tech Inc	3/3/2020	[signature]	ETA	3/3/20 1520
Relinquished by: [signature]	Company: ETA	Date/Time: 3/3/20 1700	Received by: [signature]	Company: ETA	Date/Time: 3-4-20 950
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: 3/3/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: John McFadden	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			
Site: MSA Frog Mortar Creek	☐ 2 days			Sampler: J Mullis
Project # 112IC09023	☐ 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-030320	3/3/2020	0806	SW	Water	3		x	
MSA-SW44B-030320	3/3/2020	0813	SW	Water	3		x	
MSA-SW44C-030320	3/3/2020	0816	SW	Water	3		x	
MSA-SW44D-030320	3/3/2020	0819	SW	Water	3		x	
TB-030320	3/3/2020	0000	SW	Water	3		x	
MSA-SW46A-030320	3/3/2020	0937	SW	Water	3		x	
MSA-SW47A-030320	3/3/2020	0916	SW	Water	3		x	
MSA-SW48A-030320	3/3/2020	0859	SW	Water	3		x	
MSA-SW49A-030320	3/3/2020	0837	SW	Water	3		x	
			3/3/2020					
							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: Dissolved Metals and DOC filtered in field

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech Inc	3/3/2020		ETA	3/3/20 1500
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	ETA	3/3/20 1700		ETA	3-4-20 930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # : 127107**
Canton Facility

Client Tetra Tech Site Name

Cooler Received on 5-4-20 Opened on 5-4-20 930

Cooler unpacked by: Ryan C

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # TA 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-10 (CF +0.7 °C) Observed Cooler Temp. 3.9 °C Corrected Cooler Temp. 4.6 °C
   IR GUN #IR-11 (CF +0.9°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 be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC995364**
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 59072 Yes No
16. 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

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: JG

18. 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)

19. 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:

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MSA Surface Water Sampling

Report Number: 240-127107-1

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

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

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

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

RECEIPT

The samples were received on 3/4/2020 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MSA-SW37A-030320 (240-127107-1), MSA-SW37B-030320 (240-127107-2), MSA-SW37C-030320 (240-127107-3), MSA-SW37D-030320 (240-127107-4), MSA-SW38A-030320 (240-127107-5), MSA-SW38B-030320 (240-127107-6), MSA-SW38C-030320 (240-127107-7), MSA-SW38D-030320 (240-127107-8), MSA-SW40A-030320 (240-127107-9), MSA-SW40B-030320 (240-127107-10), MSA-SW40C-030320 (240-127107-11), MSA-SW40D-030320 (240-127107-12), MSA-SW41A-030320 (240-127107-13), MSA-SW41B-030320 (240-127107-14), MSA-SW41C-030320 (240-127107-15), MSA-SW41D-030320 (240-127107-16), MSA-SW42A-030320 (240-127107-17), MSA-SW42B-030320 (240-127107-18), MSA-SW42C-030320 (240-127107-19), MSA-SW42D-030320 (240-127107-20), MSA-SW43A-030320 (240-127107-21), MSA-SW43B-030320 (240-127107-22), MSA-SW43C-030320 (240-127107-23), MSA-SW43D-030320 (240-127107-24), MSA-SW44A-030320 (240-127107-25), MSA-SW44B-030320 (240-127107-26), MSA-SW44C-030320 (240-127107-27), MSA-SW44D-030320 (240-127107-28), TB-030320 (240-127107-29), MSA-SW46A-030320 (240-127107-30), MSA-SW47A-030320 (240-127107-31), MSA-SW48A-030320 (240-127107-32) and MSA-SW49A-030320 (240-127107-33) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 03/05/2020 and 03/06/2020.

The continuing calibration verification (CCV) analyzed in batch 240-425546 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.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 240-425546.

The continuing calibration verification (CCV) analyzed in batch 240-425629 was outside the method criteria for the following analyte(s): 2-Methyl-2-propanol, Bromomethane, 1,1,2-Trichloro-1,2,2-trifluoromethane. 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-SW41D-030320 (240-127107-16), MSA-SW42A-030320 (240-127107-17), MSA-SW42B-030320 (240-127107-18), MSA-SW42C-030320 (240-127107-19), MSA-SW42D-030320 (240-127107-20), MSA-SW43A-030320 (240-127107-21), MSA-SW43B-030320 (240-127107-22), MSA-SW43C-030320 (240-127107-23), MSA-SW43D-030320 (240-127107-24), MSA-SW44A-030320 (240-127107-25), MSA-SW44B-030320 (240-127107-26), MSA-SW44C-030320 (240-127107-27), MSA-SW44D-030320 (240-127107-28), TB-030320 (240-127107-29), MSA-SW46A-030320 (240-127107-30), MSA-SW47A-030320 (240-127107-31), MSA-SW48A-030320 (240-127107-32), MSA-SW49A-030320 (240-127107-33) and (CCVIS 240-425629/3)

The following samples were received preserved with hydrochloric acid: MSA-SW37A-030320 (240-127107-1), MSA-SW37B-030320 (240-127107-2), MSA-SW37C-030320 (240-127107-3), MSA-SW37D-030320 (240-127107-4), MSA-SW38A-030320 (240-127107-5), MSA-SW38B-030320 (240-127107-6), MSA-SW38C-030320 (240-127107-7), MSA-SW38D-030320 (240-127107-8), MSA-SW40A-030320 (240-127107-9), MSA-SW40B-030320 (240-127107-10), MSA-SW40C-030320 (240-127107-11), MSA-SW40D-030320 (240-127107-12), MSA-SW41A-030320 (240-127107-13), MSA-SW41B-030320 (240-127107-14), MSA-SW41C-030320 (240-127107-15), MSA-SW41D-030320 (240-127107-16), MSA-SW42A-030320 (240-127107-17), MSA-SW42B-030320 (240-127107-18), MSA-SW42C-030320 (240-127107-19), MSA-SW42D-030320 (240-127107-20), MSA-SW43A-030320 (240-127107-21), MSA-SW43B-030320 (240-127107-22), MSA-SW43C-030320 (240-127107-23), MSA-SW43D-030320 (240-127107-24), MSA-SW44A-030320 (240-127107-25), MSA-SW44B-030320 (240-127107-26), MSA-SW44C-030320 (240-127107-27), MSA-SW44D-030320 (240-127107-28), TB-030320 (240-127107-29), MSA-SW46A-030320 (240-127107-30), MSA-SW47A-030320 (240-127107-31), MSA-SW48A-030320 (240-127107-32) and MSA-SW49A-030320 (240-127107-33). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

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

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
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.
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
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water Sampling

Job ID: 240-127107-1

GC/MS VOA

Analysis Batch: 425546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-127107-1	MSA-SW37A-030320	Total/NA	Water	8260C	
240-127107-2	MSA-SW37B-030320	Total/NA	Water	8260C	
240-127107-3	MSA-SW37C-030320	Total/NA	Water	8260C	
240-127107-4	MSA-SW37D-030320	Total/NA	Water	8260C	
240-127107-5	MSA-SW38A-030320	Total/NA	Water	8260C	
240-127107-6	MSA-SW38B-030320	Total/NA	Water	8260C	
240-127107-7	MSA-SW38C-030320	Total/NA	Water	8260C	
240-127107-8	MSA-SW38D-030320	Total/NA	Water	8260C	
240-127107-9	MSA-SW40A-030320	Total/NA	Water	8260C	
240-127107-10	MSA-SW40B-030320	Total/NA	Water	8260C	
240-127107-11	MSA-SW40C-030320	Total/NA	Water	8260C	
240-127107-12	MSA-SW40D-030320	Total/NA	Water	8260C	
240-127107-13	MSA-SW41A-030320	Total/NA	Water	8260C	
240-127107-14	MSA-SW41B-030320	Total/NA	Water	8260C	
240-127107-15	MSA-SW41C-030320	Total/NA	Water	8260C	
MB 240-425546/8	Method Blank	Total/NA	Water	8260C	
LCS 240-425546/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 425629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-127107-16	MSA-SW41D-030320	Total/NA	Water	8260C	
240-127107-17	MSA-SW42A-030320	Total/NA	Water	8260C	
240-127107-18	MSA-SW42B-030320	Total/NA	Water	8260C	
240-127107-19	MSA-SW42C-030320	Total/NA	Water	8260C	
240-127107-20	MSA-SW42D-030320	Total/NA	Water	8260C	
240-127107-21	MSA-SW43A-030320	Total/NA	Water	8260C	
240-127107-22	MSA-SW43B-030320	Total/NA	Water	8260C	
240-127107-23	MSA-SW43C-030320	Total/NA	Water	8260C	
240-127107-24	MSA-SW43D-030320	Total/NA	Water	8260C	
240-127107-25	MSA-SW44A-030320	Total/NA	Water	8260C	
240-127107-26	MSA-SW44B-030320	Total/NA	Water	8260C	
240-127107-27	MSA-SW44C-030320	Total/NA	Water	8260C	
240-127107-28	MSA-SW44D-030320	Total/NA	Water	8260C	
240-127107-29	TB-030320	Total/NA	Water	8260C	
240-127107-30	MSA-SW46A-030320	Total/NA	Water	8260C	
240-127107-31	MSA-SW47A-030320	Total/NA	Water	8260C	
240-127107-32	MSA-SW48A-030320	Total/NA	Water	8260C	
240-127107-33	MSA-SW49A-030320	Total/NA	Water	8260C	
MB 240-425629/8	Method Blank	Total/NA	Water	8260C	
LCS 240-425629/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1
Date Collected: 03/03/20 09:52 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 21:31	TJL1	TAL CAN

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2
Date Collected: 03/03/20 09:55 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 21:54	TJL1	TAL CAN

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3
Date Collected: 03/03/20 09:57 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 22:16	TJL1	TAL CAN

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4
Date Collected: 03/03/20 10:00 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 22:39	TJL1	TAL CAN

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5
Date Collected: 03/03/20 09:03 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 23:02	TJL1	TAL CAN

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6
Date Collected: 03/03/20 09:05 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 23:24	TJL1	TAL CAN

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7
Date Collected: 03/03/20 09:09 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 23:47	TJL1	TAL CAN

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8
Date Collected: 03/03/20 09:12 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 00:09	TJL1	TAL CAN

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9
Date Collected: 03/03/20 09:21 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 00:31	TJL1	TAL CAN

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10
Date Collected: 03/03/20 09:24 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 00:54	TJL1	TAL CAN

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11
Date Collected: 03/03/20 09:26 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 01:16	TJL1	TAL CAN

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12
Date Collected: 03/03/20 09:29 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 01:39	TJL1	TAL CAN

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13
Date Collected: 03/03/20 08:44 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 02:01	TJL1	TAL CAN

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14
Date Collected: 03/03/20 08:49 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 02:24	TJL1	TAL CAN

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Date Collected: 03/03/20 08:51 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 02:46	TJL1	TAL CAN

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Date Collected: 03/03/20 08:55 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 15:01	HMB	TAL CAN

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Date Collected: 03/03/20 09:40 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 15:25	HMB	TAL CAN

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Date Collected: 03/03/20 09:43 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 15:50	HMB	TAL CAN

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Date Collected: 03/03/20 09:45 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 16:15	HMB	TAL CAN

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Date Collected: 03/03/20 09:48 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 16:40	HMB	TAL CAN

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Date Collected: 03/03/20 08:26 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 17:05	HMB	TAL CAN

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Date Collected: 03/03/20 08:30 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 17:30	HMB	TAL CAN

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Date Collected: 03/03/20 09:34 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 17:55	HMB	TAL CAN

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Date Collected: 03/03/20 08:37 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 18:20	HMB	TAL CAN

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Date Collected: 03/03/20 08:06 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 18:45	HMB	TAL CAN

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Date Collected: 03/03/20 08:13 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 19:10	HMB	TAL CAN

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Date Collected: 03/03/20 08:16 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 19:34	HMB	TAL CAN

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Date Collected: 03/03/20 08:19 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 19:59	HMB	TAL CAN

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

Client Sample ID: TB-030320 — Lab Sample ID: 240-127107-29

Date Collected: 03/03/20 00:00 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 20:24	HMB	TAL CAN

Client Sample ID: MSA-SW46A-030320 — Lab Sample ID: 240-127107-30

Date Collected: 03/03/20 09:37 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 20:49	HMB	TAL CAN

Client Sample ID: MSA-SW47A-030320 — Lab Sample ID: 240-127107-31

Date Collected: 03/03/20 09:16 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 21:14	HMB	TAL CAN

Client Sample ID: MSA-SW48A-030320 — Lab Sample ID: 240-127107-32

Date Collected: 03/03/20 08:59 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 21:39	HMB	TAL CAN

Client Sample ID: MSA-SW49A-030320 — Lab Sample ID: 240-127107-33

Date Collected: 03/03/20 08:37 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 22:04	HMB	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Method Summary

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

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. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-127107-1	MSA-SW37A-030320	Water	03/03/20 09:52	03/04/20 09:30	
240-127107-2	MSA-SW37B-030320	Water	03/03/20 09:55	03/04/20 09:30	
240-127107-3	MSA-SW37C-030320	Water	03/03/20 09:57	03/04/20 09:30	
240-127107-4	MSA-SW37D-030320	Water	03/03/20 10:00	03/04/20 09:30	
240-127107-5	MSA-SW38A-030320	Water	03/03/20 09:03	03/04/20 09:30	
240-127107-6	MSA-SW38B-030320	Water	03/03/20 09:05	03/04/20 09:30	
240-127107-7	MSA-SW38C-030320	Water	03/03/20 09:09	03/04/20 09:30	
240-127107-8	MSA-SW38D-030320	Water	03/03/20 09:12	03/04/20 09:30	
240-127107-9	MSA-SW40A-030320	Water	03/03/20 09:21	03/04/20 09:30	
240-127107-10	MSA-SW40B-030320	Water	03/03/20 09:24	03/04/20 09:30	
240-127107-11	MSA-SW40C-030320	Water	03/03/20 09:26	03/04/20 09:30	
240-127107-12	MSA-SW40D-030320	Water	03/03/20 09:29	03/04/20 09:30	
240-127107-13	MSA-SW41A-030320	Water	03/03/20 08:44	03/04/20 09:30	
240-127107-14	MSA-SW41B-030320	Water	03/03/20 08:49	03/04/20 09:30	
240-127107-15	MSA-SW41C-030320	Water	03/03/20 08:51	03/04/20 09:30	
240-127107-16	MSA-SW41D-030320	Water	03/03/20 08:55	03/04/20 09:30	
240-127107-17	MSA-SW42A-030320	Water	03/03/20 09:40	03/04/20 09:30	
240-127107-18	MSA-SW42B-030320	Water	03/03/20 09:43	03/04/20 09:30	
240-127107-19	MSA-SW42C-030320	Water	03/03/20 09:45	03/04/20 09:30	
240-127107-20	MSA-SW42D-030320	Water	03/03/20 09:48	03/04/20 09:30	
240-127107-21	MSA-SW43A-030320	Water	03/03/20 08:26	03/04/20 09:30	
240-127107-22	MSA-SW43B-030320	Water	03/03/20 08:30	03/04/20 09:30	
240-127107-23	MSA-SW43C-030320	Water	03/03/20 09:34	03/04/20 09:30	
240-127107-24	MSA-SW43D-030320	Water	03/03/20 08:37	03/04/20 09:30	
240-127107-25	MSA-SW44A-030320	Water	03/03/20 08:06	03/04/20 09:30	
240-127107-26	MSA-SW44B-030320	Water	03/03/20 08:13	03/04/20 09:30	
240-127107-27	MSA-SW44C-030320	Water	03/03/20 08:16	03/04/20 09:30	
240-127107-28	MSA-SW44D-030320	Water	03/03/20 08:19	03/04/20 09:30	
240-127107-29	TB-030320	Water	03/03/20 00:00	03/04/20 09:30	
240-127107-30	MSA-SW46A-030320	Water	03/03/20 09:37	03/04/20 09:30	
240-127107-31	MSA-SW47A-030320	Water	03/03/20 09:16	03/04/20 09:30	
240-127107-32	MSA-SW48A-030320	Water	03/03/20 08:59	03/04/20 09:30	
240-127107-33	MSA-SW49A-030320	Water	03/03/20 08:37	03/04/20 09:30	

Quantitation Limit Exceptions Summary

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260C	2-Butanone	Water	Total/NA	ug/L	5.0	10
8260C	2-Hexanone	Water	Total/NA	ug/L	5.0	10
8260C	4-Methyl-2-pentanone	Water	Total/NA	ug/L	5.0	10
8260C	Acetone	Water	Total/NA	ug/L	5.0	10
8260C	Diisopropyl ether	Water	Total/NA	ug/L	5.0	10
8260C	tert-Butyl alcohol	Water	Total/NA	ug/L	20	40
8260C	Vinyl chloride	Water	Total/NA	ug/L	0.50	1

Method 8260C

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab File ID: BFB6359.D BFB Injection Date: 02/07/2020

Instrument ID: A3UX16 BFB Injection Time: 15:54

Analysis Batch No.: 421991

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.3	
75	30.0 - 60.0 % of mass 95	53.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.2	(0.3) 1
174	50.0 - 120.00 % of mass 95	63.8	
175	5.0 - 9.0 % of mass 174	4.5	(7.0) 1
176	95.0 - 101.0 % of mass 174	61.3	(96.2) 1
177	5.0 - 9.0 % of mass 176	4.0	(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 240-421991/9	UXM26853.D	02/07/2020	16:51
	STD8260 240-421991/10	UXM26854.D	02/07/2020	17:16
	STD8260 240-421991/11	UXM26855.D	02/07/2020	17:41
	STD8260 240-421991/12	UXM26856.D	02/07/2020	18:06
	ICIS 240-421991/13	UXM26857.D	02/07/2020	18:31
	STD8260 240-421991/14	UXM26858.D	02/07/2020	18:55
	STD8260 240-421991/15	UXM26859.D	02/07/2020	19:20
	STD8260 240-421991/16	UXM26860.D	02/07/2020	19:45
	ICV 240-421991/17	UXM26861.D	02/07/2020	20:10
	STDA9 240-421991/20	UXM26864.D	02/07/2020	21:24
	STDA9 240-421991/21	UXM26865.D	02/07/2020	21:49
	STDA9 240-421991/22	UXM26866.D	02/07/2020	22:14
	STDA9 240-421991/23	UXM26867.D	02/07/2020	22:39
	STDA9 240-421991/24	UXM26868.D	02/07/2020	23:03
	STDA9 240-421991/25	UXM26869.D	02/07/2020	23:28
	ICV 240-421991/26	UXM26870.D	02/07/2020	23:53

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-421991/16	UXM26860.D
Level 2	STD8260 240-421991/15	UXM26859.D
Level 3	STD8260 240-421991/14	UXM26858.D
Level 4	ICIS 240-421991/13	UXM26857.D
Level 5	STD8260 240-421991/12	UXM26856.D
Level 6	STD8260 240-421991/11	UXM26855.D
Level 7	STD8260 240-421991/10	UXM26854.D
Level 8	STD8260 240-421991/9	UXM26853.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2278 0.3144	0.2486 0.2938	0.2998 0.2926	0.2910	0.3292	Ave		0.2872			0.1000	11.6		20.0			
Chloromethane	0.4724 0.4241	0.4517 0.4090	0.4337 0.3990	0.4094	0.4479	Ave		0.4309			0.1000	5.9		20.0			
Vinyl chloride	0.4090 0.4434	0.4087 0.4370	0.4581 0.4371	0.4263	0.4708	Ave		0.4363			0.1000	5.0		20.0			
Butadiene	0.3304 0.3596	0.3224 0.3517	0.3678 0.3506	0.3515	0.3627	Ave		0.3496				4.5		20.0			
Bromomethane	0.3068 +++++	0.2872 +++++	0.2674 +++++	0.2836	0.2660	Ave		0.2822			0.0500	5.9		20.0			
Chloroethane	0.1881 0.2598	0.1921 0.2664	0.2186 0.2453	0.2193	0.2410	Ave		0.2288			0.0500	12.8		20.0			
Dichlorofluoromethane	0.4183 0.4697	0.4419 0.4654	0.4565 0.4677	0.4408	0.4912	Ave		0.4564				4.9		20.0			
Trichlorofluoromethane	0.3059 0.3895	0.3051 0.3790	0.3626 0.3875	0.3542	0.4003	Ave		0.3605			0.1000	10.3		20.0			
Ethyl ether	0.2017 0.2052	0.1907 0.2007	0.2073 0.1978	0.1955	0.2094	Ave		0.2010				3.1		20.0			
Acrolein	0.0303 0.0429	0.0343 0.0441	0.0426 0.0404	0.0402	0.0417	Ave		0.0395				12.1		20.0			
1,1-Dichloroethene	0.1855 0.2356	0.1953 0.2343	0.2135 0.2438	0.2162	0.2391	Ave		0.2204			0.1000	9.8		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1097 0.1618	0.1194 0.1534	0.1414 0.1668	0.1476	0.1612	Ave		0.1452			0.0500	14.3		20.0			
Acetone	+++++ 0.0206	0.0340 0.0208	0.0234 0.0188	0.0208	0.0205	Lin1	0.0341	0.0198			0.0100	8.5			0.9970		0.9900
Iodomethane	0.2598 0.2567	0.2412 0.2623	0.2270 0.2633	0.2361	0.2606	Ave		0.2509				5.6		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	0.7409 0.8039	0.6892 0.7892	0.7405 0.8108	0.7549	0.8271	Ave		0.7696			0.1000	6.0		20.0			
Methyl acetate	0.1794 0.1759	0.1841 0.1764	0.1837 0.1625	0.1701	0.1672	Ave		0.1749			0.1000	4.4		20.0			
3-Chloro-1-propene	0.3868 0.3976	0.3769 0.3943	0.3767 0.3992	0.3793	0.4101	Ave		0.3901				3.1		20.0			
Methylene Chloride	0.3114 0.2605	0.2778 0.2569	0.2572 0.2568	0.2498	0.2701	Ave		0.2676			0.1000	7.4		20.0			
tert-Butyl alcohol	0.0208 0.0226	0.0213 0.0228	0.0246 0.0189	0.0216	0.0205	Ave		0.0216				8.1		20.0			
Acrylonitrile	0.0917 0.1029	0.0970 0.1049	0.1023 0.0988	0.0968	0.0980	Ave		0.0991				4.2		20.0			
Methyl tert-butyl ether	0.6108 0.7696	0.6329 0.7835	0.7173 0.7826	0.7019	0.7495	Ave		0.7185			0.1000	9.3		20.0			
trans-1,2-Dichloroethene	0.2349 0.2819	0.2462 0.2851	0.2545 0.2990	0.2593	0.2840	Ave		0.2681			0.1000	8.4		20.0			
Hexane	+++++ 0.4047	0.2819 0.3711	0.3515 0.3952	0.3612	0.4034	Ave		0.3670				11.7		20.0			
Vinyl acetate	0.3172 0.4546	0.3327 0.4647	0.4017 0.4588	0.4130	0.4559	Ave		0.4123				14.2		20.0			
1,1-Dichloroethane	0.4416 0.4787	0.4363 0.4781	0.4615 0.4886	0.4588	0.4990	Ave		0.4678			0.2000	4.7		20.0			
2-Butanone	0.0200 0.0303	0.0240 0.0308	0.0299 0.0283	0.0275	0.0287	Ave		0.0274			0.0100	13.4		20.0			
cis-1,2-Dichloroethene	0.2446 0.2965	0.2647 0.2987	0.2759 0.3122	0.2768	0.3030	Ave		0.2840			0.1000	8.0		20.0			
2,2-Dichloropropane	0.3342 0.4283	0.3368 0.4325	0.3854 0.4514	0.3970	0.4346	Ave		0.4000				11.3		20.0			
Bromochloromethane	0.1011 0.1127	0.1113 0.1104	0.1107 0.1100	0.1100	0.1197	Ave		0.1107				4.6		20.0			
Tetrahydrofuran	0.0747 0.0705	0.0707 0.0707	0.0734 0.0626	0.0679	0.0667	Ave		0.0696				5.5		20.0			
Chloroform	0.3946 0.4414	0.4120 0.4372	0.4278 0.4469	0.4267	0.4596	Ave		0.4308			0.2000	4.7		20.0			
1,1,1-Trichloroethane	0.3118 0.3928	0.3244 0.3957	0.3630 0.4081	0.3686	0.4027	Ave		0.3709			0.1000	9.8		20.0			
Cyclohexane	0.3328 0.4633	0.3757 0.4446	0.4235 0.4705	0.4352	0.4697	Ave		0.4269			0.1000	11.5		20.0			
1,1-Dichloropropene	0.3164 0.4033	0.3117 0.4091	0.3617 0.4261	0.3740	0.4061	Ave		0.3760				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.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	0.2330 0.3326	0.2463 0.3393	0.2879 0.3585	0.2993	0.3340	Ave		0.3039			0.1000	15.0		20.0			
Isobutyl alcohol	0.0052 0.0072	0.0059 0.0072	0.0077 0.0061	0.0067	0.0065	Ave		0.0066				12.3		20.0			
Benzene	1.0129 1.1634	0.9812 1.1711	1.0777 1.2012	1.0837	1.1822	Ave		1.1092			0.5000	7.5		20.0			
1,2-Dichloroethane	0.3074 0.3497	0.3288 0.3419	0.3517 0.3423	0.3398	0.3596	Ave		0.3402			0.1000	4.7		20.0			
n-Heptane	+++++ 0.2148	0.8042 0.1971	0.2571 0.2065	0.2232	0.2213	Lin1	0.6024	0.1991				3.4			0.9990		0.9900
Trichloroethene	0.2137 0.2651	0.2155 0.2653	0.2420 0.2756	0.2467	0.2688	Ave		0.2491			0.1500	9.7		20.0			
Methylcyclohexane	+++++ 0.4927	0.3378 0.4731	0.4305 0.5142	0.4438	0.4902	Ave		0.4546			0.1000	13.0		20.0			
1,2-Dichloropropane	0.2276 0.2706	0.2238 0.2716	0.2538 0.2766	0.2543	0.2801	Ave		0.2573			0.1000	8.4		20.0			
1,4-Dioxane	+++++ 0.0031	0.0027 0.0031	0.0033 0.0027	0.0030	0.0029	Ave		0.0030				7.0		20.0			
Dibromomethane	0.1219 0.1405	0.1253 0.1406	0.1361 0.1405	0.1333	0.1438	Ave		0.1353				5.8		20.0			
Bromodichloromethane	0.2515 0.3233	0.2598 0.3261	0.2968 0.3288	0.2990	0.3325	Ave		0.3022			0.1500	10.5		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1792	0.1225 0.1824	0.1652 0.1775	0.1628	0.1759	Ave		0.1665				12.4		20.0			
cis-1,3-Dichloropropene	0.3023 0.4370	0.3239 0.4389	0.3949 0.4460	0.4025	0.4445	Ave		0.3988			0.1500	14.2		20.0			
4-Methyl-2-pentanone	0.1582 0.2032	0.1705 0.2029	0.2106 0.1807	0.1939	0.1926	Ave		0.1891			0.0500	9.5		20.0			
Toluene	1.4178 1.7621	1.4585 1.7729	1.5552 1.8139	1.6044	1.7582	Ave		1.6429			0.4000	9.4		20.0			
trans-1,3-Dichloropropene	0.3787 0.5861	0.4209 0.5862	0.5162 0.5859	0.5232	0.5819	Ave		0.5224			0.1000	15.6		20.0			
Ethyl methacrylate	+++++ 0.4493	0.2874 0.4489	0.4114 0.4179	0.4115	0.4398	Ave		0.4095				13.8		20.0			
1,1,2-Trichloroethane	0.2370 0.3050	0.2493 0.3011	0.2905 0.2978	0.2828	0.3056	Ave		0.2836			0.1000	9.3		20.0			
Tetrachloroethene	0.1993 0.2876	0.2231 0.2930	0.2460 0.3075	0.2603	0.2825	Ave		0.2624			0.1500	14.3		20.0			
1,3-Dichloropropane	0.4847 0.5851	0.4874 0.5858	0.5682 0.5832	0.5552	0.5895	Ave		0.5549				7.9		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.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.1579 0.2038	0.1757 0.2028	0.2202 0.1744	0.2006	0.1935	Ave		0.1911			0.0500	10.6		20.0			
Dibromochloromethane	0.1980 0.3109	0.2024 0.3117	0.2608 0.3151	0.2736	0.3056	Ave		0.2723				17.9		20.0			
1,2-Dibromoethane	0.2323 0.3050	0.2331 0.3021	0.2832 0.2932	0.2811	0.3005	Ave		0.2788				10.7		20.0			
Chlorobenzene	0.8726 1.0428	0.9036 1.0483	0.9416 1.0889	0.9635	1.0470	Ave		0.9885			0.3000	8.0		20.0			
1,1,1,2-Tetrachloroethane	0.2136 0.3626	0.2181 0.3678	0.2894 0.3937	0.3061	0.3505	Lin1	-0.145	0.3709				17.8			0.9950		0.9900
Ethylbenzene	0.4678 0.6297	0.4793 0.6484	0.5277 0.6950	0.5566	0.6202	Ave		0.5781				14.3		20.0			
m-Xylene & p-Xylene	0.5900 0.7298	0.5987 0.7348	0.6463 0.7586	0.6778	0.7322	Ave		0.6835				9.6		20.0			
o-Xylene	0.5517 0.7278	0.5728 0.7411	0.6264 0.7784	0.6530	0.7142	Ave		0.6707				12.3		20.0			
Styrene	0.7382 1.2590	0.8062 1.2896	1.0144 1.3657	1.0941	1.2466	Lin1	-0.483	1.2957			0.3000	16.1			0.9960		0.9900
Bromoform	0.0972 0.1787	0.1105 0.1806	0.1408 0.1794	0.1483	0.1721	Lin1	-0.065	0.1769			0.1000	14.6			0.9970		0.9900
Isopropylbenzene	1.3736 1.8557	1.4801 1.8835	1.5895 1.9456	1.6873	1.8329	Ave		1.7060			0.1000	12.2		20.0			
1,1,2,2-Tetrachloroethane	0.5952 0.8223	0.6870 0.8081	0.8005 0.7793	0.7633	0.7996	Ave		0.7569			0.3000	10.3		20.0			
Bromobenzene	0.6318 0.7959	0.6240 0.8098	0.7225 0.8444	0.7226	0.7907	Ave		0.7427				11.1		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2770	0.2046 0.2762	0.2560 0.2602	0.2503	0.2632	Ave		0.2554				9.6		20.0			
1,2,3-Trichloropropane	0.2186 0.2548	0.2217 0.2552	0.2587 0.2396	0.2382	0.2508	Ave		0.2422				6.4		20.0			
n-Propylbenzene	0.8526 1.0752	0.8449 1.0991	0.9311 1.1593	0.9922	1.0723	Ave		1.0033				11.7		20.0			
2-Chlorotoluene	0.7181 0.8560	0.6921 0.8574	0.7815 0.9053	0.7929	0.8625	Ave		0.8082				9.3		20.0			
1,3,5-Trimethylbenzene	2.2512 3.2805	2.4331 3.3564	2.8377 3.4590	2.9591	3.2549	Ave		2.9790				14.9		20.0			
4-Chlorotoluene	0.7177 0.9060	0.7289 0.9184	0.8023 0.9496	0.8366	0.9045	Ave		0.8455				10.5		20.0			
tert-Butylbenzene	1.9139 2.7209	2.1025 2.7739	2.3595 2.9226	2.4600	2.6905	Ave		2.4930				14.1		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.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.2936 3.2372	2.4371 3.3142	2.8360 3.4427	2.9164	3.2166	Ave		2.9617				14.2		20.0			
sec-Butylbenzene	2.9792 4.2210	3.2202 4.2848	3.6423 4.3947	3.8436	4.1866	Ave		3.8466				13.7		20.0			
1,3-Dichlorobenzene	1.2460 1.5985	1.2835 1.6438	1.4074 1.7459	1.4461	1.5892	Ave		1.4950			0.6000	11.9		20.0			
p-Isopropyltoluene	2.2758 3.6236	2.5095 3.7442	3.0112 3.9527	3.2005	3.5646	Ave		3.2353				18.6		20.0			
1,4-Dichlorobenzene	1.3563 1.5596	1.4299 1.5771	1.4306 1.6437	1.4282	1.5686	Ave		1.4992			0.5000	6.7		20.0			
n-Butylbenzene	2.1064 3.3759	2.3252 3.3969	2.9005 3.5057	3.0630	3.3577	Ave		3.0039				17.6		20.0			
1,2-Dichlorobenzene	1.2224 1.4414	1.2060 1.4462	1.3185 1.5094	1.3130	1.4412	Ave		1.3623			0.4000	8.3		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1333	0.0922 0.1346	0.1223 0.1259	0.1188	0.1261	Ave		0.1219			0.0500	11.7		20.0			
1,2,4-Trichlorobenzene	0.5785 0.7703	0.6740 0.7903	0.6977 0.8202	0.6888	0.7698	Ave		0.7237			0.2000	10.9		20.0			
Hexachlorobutadiene	+++++ 0.3414	0.2410 0.3440	0.2921 0.3716	0.3037	0.3341	Ave		0.3183				13.6		20.0			
Naphthalene	1.7700 2.3263	2.0059 2.3525	2.2480 2.2060	2.1453	2.2374	Ave		2.1614				8.9		20.0			
1,2,3-Trichlorobenzene	0.5520 0.6860	0.6168 0.6888	0.6502 0.6806	0.6334	0.6810	Ave		0.6486				7.3		20.0			
Dibromofluoromethane (Surr)	0.1999 0.2141	0.1823 0.2207	0.2068 0.2287	0.1999	0.2160	Ave		0.2086				7.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2615 0.2704	0.2722 0.2747	0.2806 0.2736	0.2639	0.2736	Ave		0.2713				2.3		20.0			
Toluene-d8 (Surr)	1.1470 1.3779	1.1601 1.4464	1.2677 1.4804	1.2768	1.3377	Ave		1.3118				9.3		20.0			
4-Bromofluorobenzene (Surr)	0.4011 0.4722	0.4204 0.4877	0.4405 0.4950	0.4431	0.4613	Ave		0.4527				7.2		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.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 21:24 Calibration End Date: 02/07/2020 23:28 Calibration ID: 55395

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-421991/25	UXM26869.D
Level 2	STDA9 240-421991/24	UXM26868.D
Level 3	STDA9 240-421991/23	UXM26867.D
Level 4	STDA9 240-421991/22	UXM26866.D
Level 5	STDA9 240-421991/21	UXM26865.D
Level 6	STDA9 240-421991/20	UXM26864.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	0.0336 0.0320	0.0381	0.0369	0.0349	0.0377	Ave		0.0355				6.9		20.0			
Diisopropyl ether	0.1626 0.2339	0.1897	0.2144	0.2046	0.2385	Ave		0.2073				13.7		20.0			
2-Chloro-1,3-butadiene	0.3176 0.4266	0.3303	0.3940	0.3812	0.4303	Ave		0.3800				12.5		20.0			
Ethyl-t-butyl ether (ETBE)	0.5497 0.7961	0.6229	0.7175	0.6960	0.8187	Ave		0.7002				14.6		20.0			
Ethyl acetate	+++++ 0.2206	0.1885	0.2256	0.2212	0.2588	Ave		0.2229				11.2		20.0			
Propionitrile	0.0290 0.0377	0.0371	0.0416	0.0395	0.0447	Ave		0.0383				13.9		20.0			
Methacrylonitrile	+++++ 0.1693	0.1330	0.1603	0.1560	0.1880	Ave		0.1613				12.4		20.0			
Isooctane	+++++ 0.8407	0.5973	0.6746	0.7182	0.8430	Ave		0.7348				14.6		20.0			
Tert-amyl-methyl ether (TAME)	+++++ 0.7541	0.5470	0.6433	0.6395	0.7675	Ave		0.6703				13.6		20.0			
n-Butanol	+++++ 0.0064	0.0031	0.0060	0.0064	0.0083	Ave		0.0060				31.0	*	20.0			
Ethyl acrylate	+++++ 0.2932	0.1934	0.2645	0.2720	0.3323	Ave		0.2711				18.7		20.0			
Methyl methacrylate	+++++ 0.2073	0.1420	0.1965	0.1951	0.2316	Ave		0.1945				16.9		20.0			
2-Nitropropane	+++++ 0.0687	0.0442	0.0627	0.0652	0.0785	Ave		0.0638				19.6		20.0			
n-Butyl acetate	+++++ 0.3085	0.2502	0.3004	0.3079	0.3596	Ave		0.3053				12.7		20.0			
1-Chlorohexane	0.4693 0.5664	0.4569	0.5192	0.5146	0.5819	Ave		0.5180				9.7		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
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 21:24 Calibration End Date: 02/07/2020 23:28 Calibration ID: 55395

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	+++++ 0.0246	0.0147	0.0217	0.0239	0.0310	Ave		0.0232				25.3	*	20.0			
Pentachloroethane	+++++ 0.1029	0.0983	0.0664	0.1303	0.0633	Ave		0.0922				30.2	*	20.0			
1,2,3-Trimethylbenzene	2.2502 3.4341	2.5003	2.7755	2.7619	3.3163	Ave		2.8397				16.2		20.0			
Benzyl chloride	+++++ 0.3230	0.1305	0.2250	0.2493	0.3217	Ave		0.2499				31.9	*	20.0			
1,3,5-Trichlorobenzene	0.7105 1.0192	0.8043	0.8474	0.8198	0.9900	Ave		0.8652				13.6		20.0			
2-Methylnaphthalene	+++++ 1.1130	0.9632	0.9533	0.9576	1.2162	Ave		1.0407				11.4		20.0			
1-Methylnaphthalene	0.6305 0.9659	0.9760	0.9011	0.8759	1.0918	Ave		0.9069				17.1		20.0			

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

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-421991/17 Calibration Date: 02/07/2020 20:10

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM26861.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	0.2872	0.2039	0.1000	0.0142	0.0200	-29.0	30.0
Chloromethane	Ave	0.4309	0.3828	0.1000	0.0178	0.0200	-11.2	30.0
Vinyl chloride	Ave	0.4363	0.4173	0.1000	0.0191	0.0200	-4.4	30.0
Butadiene	Ave	0.3496	0.3387		0.0194	0.0200	-3.1	30.0
Bromomethane	Ave	0.2822	0.2756	0.0500	0.0195	0.0200	-2.3	30.0
Chloroethane	Ave	0.2288	0.2244	0.0500	0.0196	0.0200	-1.9	30.0
Dichlorofluoromethane	Ave	0.4564	0.4941		0.0217	0.0200	8.3	30.0
Trichlorofluoromethane	Ave	0.3605	0.3660	0.1000	0.0203	0.0200	1.5	30.0
Ethyl ether	Ave	0.2010	0.2000		0.0199	0.0200	-0.5	30.0
Acrolein	Ave	0.0395	0.0397		0.100	0.100	0.4	30.0
1,1-Dichloroethene	Ave	0.2204	0.2252	0.1000	0.0204	0.0200	2.2	30.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1452	0.1425	0.0500	0.0196	0.0200	-1.9	30.0
Acetone	Lin1		0.0198	0.0100	0.0383	0.0400	-4.1	50.0
Iodomethane	Ave	0.2509	0.2153		0.0172	0.0200	-14.2	30.0
Carbon disulfide	Ave	0.7696	0.7540	0.1000	0.0196	0.0200	-2.0	30.0
Methyl acetate	Ave	0.1749	0.1621	0.1000	0.0371	0.0400	-7.4	50.0
3-Chloro-1-propene	Ave	0.3901	0.3718		0.0191	0.0200	-4.7	30.0
Methylene Chloride	Ave	0.2676	0.2502	0.1000	0.0187	0.0200	-6.5	50.0
tert-Butyl alcohol	Ave	0.0216	0.0211		0.195	0.200	-2.5	30.0
Acrylonitrile	Ave	0.0991	0.0944		0.191	0.200	-4.7	30.0
Methyl tert-butyl ether	Ave	0.7185	0.6895	0.1000	0.0192	0.0200	-4.0	30.0
trans-1,2-Dichloroethene	Ave	0.2681	0.2603	0.1000	0.0194	0.0200	-2.9	30.0
Hexane	Ave	0.3670	0.3628		0.0198	0.0200	-1.1	30.0
Vinyl acetate	Ave	0.4123	0.3655		0.0177	0.0200	-11.4	30.0
1,1-Dichloroethane	Ave	0.4678	0.4540	0.2000	0.0194	0.0200	-3.0	30.0
2-Butanone	Ave	0.0274	0.0267	0.0100	0.0389	0.0400	-2.8	50.0
cis-1,2-Dichloroethene	Ave	0.2840	0.2789	0.1000	0.0196	0.0200	-1.8	30.0
2,2-Dichloropropane	Ave	0.4000	0.3820		0.0191	0.0200	-4.5	30.0
Bromochloromethane	Ave	0.1107	0.1076		0.0194	0.0200	-2.9	30.0
Tetrahydrofuran	Ave	0.0696	0.0669		0.0384	0.0400	-4.0	30.0
Chloroform	Ave	0.4308	0.4220	0.2000	0.0196	0.0200	-2.0	30.0
1,1,1-Trichloroethane	Ave	0.3709	0.3701	0.1000	0.0200	0.0200	-0.2	30.0
Cyclohexane	Ave	0.4269	0.4244	0.1000	0.0199	0.0200	-0.6	30.0
1,1-Dichloropropene	Ave	0.3760	0.3586		0.0191	0.0200	-4.6	30.0
Carbon tetrachloride	Ave	0.3039	0.2941	0.1000	0.0194	0.0200	-3.2	30.0
Isobutyl alcohol	Ave	0.0066	0.0064		0.488	0.500	-2.4	30.0
Benzene	Ave	1.109	1.062	0.5000	0.0192	0.0200	-4.2	30.0
1,2-Dichloroethane	Ave	0.3402	0.3323	0.1000	0.0195	0.0200	-2.3	30.0
n-Heptane	Lin1		0.2229		0.0194	0.0200	-3.2	30.0
Trichloroethene	Ave	0.2491	0.2422	0.1500	0.0195	0.0200	-2.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-421991/17 Calibration Date: 02/07/2020 20:10

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM26861.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	0.4546	0.4322	0.1000	0.0190	0.0200	-4.9	30.0
1,2-Dichloropropane	Ave	0.2573	0.2571	0.1000	0.0200	0.0200	-0.0	30.0
1,4-Dioxane	Ave	0.0030	0.0028		0.383	0.400	-4.3	50.0
Dibromomethane	Ave	0.1353	0.1347		0.0199	0.0200	-0.4	30.0
Bromodichloromethane	Ave	0.3022	0.3058	0.1500	0.0202	0.0200	1.2	30.0
2-Chloroethyl vinyl ether	Ave	0.1665	0.1488		0.0179	0.0200	-10.6	30.0
cis-1,3-Dichloropropene	Ave	0.3988	0.3952	0.1500	0.0198	0.0200	-0.9	50.0
4-Methyl-2-pentanone	Ave	0.1891	0.1879	0.0500	0.0397	0.0400	-0.6	50.0
Toluene	Ave	1.643	1.580	0.4000	0.0192	0.0200	-3.8	30.0
trans-1,3-Dichloropropene	Ave	0.5224	0.4750	0.1000	0.0182	0.0200	-9.1	30.0
Ethyl methacrylate	Ave	0.4095	0.4035		0.0197	0.0200	-1.5	30.0
1,1,2-Trichloroethane	Ave	0.2836	0.2775	0.1000	0.0196	0.0200	-2.2	30.0
Tetrachloroethene	Ave	0.2624	0.2543	0.1500	0.0194	0.0200	-3.1	30.0
1,3-Dichloropropane	Ave	0.5549	0.5382		0.0194	0.0200	-3.0	30.0
2-Hexanone	Ave	0.1911	0.1920	0.0500	0.0402	0.0400	0.4	50.0
Dibromochloromethane	Ave	0.2723	0.2726		0.0200	0.0200	0.1	30.0
1,2-Dibromoethane	Ave	0.2788	0.2738		0.0196	0.0200	-1.8	30.0
Chlorobenzene	Ave	0.9885	0.9470	0.3000	0.0192	0.0200	-4.2	30.0
1,1,1,2-Tetrachloroethane	Lin1		0.3003		0.0166	0.0200	-17.1	30.0
Ethylbenzene	Ave	0.5781	0.5466		0.0189	0.0200	-5.4	30.0
m-Xylene & p-Xylene	Ave	0.6835	0.6504		0.0190	0.0200	-4.8	30.0
o-Xylene	Ave	0.6707	0.6508		0.0194	0.0200	-3.0	30.0
Styrene	Lin1		1.089	0.3000	0.0172	0.0200	-14.1	30.0
Bromoform	Lin1		0.1494	0.1000	0.0173	0.0200	-13.7	30.0
Isopropylbenzene	Ave	1.706	1.671	0.1000	0.0196	0.0200	-2.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7569	0.7356	0.3000	0.0194	0.0200	-2.8	30.0
Bromobenzene	Ave	0.7427	0.7050		0.0190	0.0200	-5.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2554	0.2445		0.0191	0.0200	-4.3	30.0
1,2,3-Trichloropropane	Ave	0.2422	0.2311		0.0191	0.0200	-4.6	30.0
n-Propylbenzene	Ave	1.003	0.9596		0.0191	0.0200	-4.4	30.0
2-Chlorotoluene	Ave	0.8082	0.7747		0.0192	0.0200	-4.1	30.0
1,3,5-Trimethylbenzene	Ave	2.979	2.877		0.0193	0.0200	-3.4	30.0
4-Chlorotoluene	Ave	0.8455	0.8062		0.0191	0.0200	-4.7	30.0
tert-Butylbenzene	Ave	2.493	2.405		0.0193	0.0200	-3.5	30.0
1,2,4-Trimethylbenzene	Ave	2.962	2.913		0.0197	0.0200	-1.6	30.0
sec-Butylbenzene	Ave	3.847	3.744		0.0195	0.0200	-2.7	30.0
1,3-Dichlorobenzene	Ave	1.495	1.390	0.6000	0.0186	0.0200	-7.0	30.0
p-Isopropyltoluene	Ave	3.235	3.103		0.0192	0.0200	-4.1	30.0
1,4-Dichlorobenzene	Ave	1.499	1.420	0.5000	0.0189	0.0200	-5.3	30.0
n-Butylbenzene	Ave	3.004	2.922		0.0195	0.0200	-2.7	30.0
1,2-Dichlorobenzene	Ave	1.362	1.259	0.4000	0.0185	0.0200	-7.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-421991/17 Calibration Date: 02/07/2020 20:10

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM26861.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	0.1219	0.1158	0.0500	0.0190	0.0200	-5.0	50.0
1,2,4-Trichlorobenzene	Ave	0.7237	0.6849	0.2000	0.0189	0.0200	-5.4	50.0
Hexachlorobutadiene	Ave	0.3183	0.2931		0.0184	0.0200	-7.9	50.0
Naphthalene	Ave	2.161	1.982		0.0183	0.0200	-8.3	50.0
1,2,3-Trichlorobenzene	Ave	0.6486	0.6087		0.0188	0.0200	-6.1	30.0
Dibromofluoromethane (Surr)	Ave	0.2086	0.2238		0.0215	0.0200	7.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2713	0.2776		0.0205	0.0200	2.3	30.0
Toluene-d8 (Surr)	Ave	1.312	1.345		0.0205	0.0200	2.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4527	0.5377		0.0238	0.0200	18.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-421991/26 Calibration Date: 02/07/2020 23:53

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM26870.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	0.2086	0.2025		0.0194	0.0200	-2.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2713	0.2642		0.0195	0.0200	-2.6	30.0
Toluene-d8 (Surr)	Ave	1.312	1.208		0.0184	0.0200	-7.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4527	0.4793		0.0212	0.0200	5.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-421991/26 Calibration Date: 02/07/2020 23:53

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 21:24

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 23:28

Lab File ID: UXM26870.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	0.0355	0.0350		0.197	0.200	-1.5	30.0
Diisopropyl ether	Ave	0.2073	0.2144		0.0207	0.0200	3.4	30.0
2-Chloro-1,3-butadiene	Ave	0.3800	0.3976		0.0209	0.0200	4.6	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7002	0.7166		0.0205	0.0200	2.3	30.0
Ethyl acetate	Ave	0.2229	0.2116		0.0380	0.0400	-5.1	30.0
Propionitrile	Ave	0.0383	0.0393		0.206	0.200	2.8	30.0
Methacrylonitrile	Ave	0.1613	0.1581		0.196	0.200	-2.0	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.6703	0.6743		0.0201	0.0200	0.6	30.0
n-Butanol	Ave	0.0060	0.0055		0.457	0.500	-8.6	30.0
Ethyl acrylate	Ave	0.2711	0.2672		0.0197	0.0200	-1.4	30.0
Methyl methacrylate	Ave	0.1945	0.1975		0.0406	0.0400	1.6	30.0
2-Nitropropane	Ave	0.0638	0.0626		0.0392	0.0400	-2.0	30.0
n-Butyl acetate	Ave	0.3053	0.3015		0.0198	0.0200	-1.2	30.0
1-Chlorohexane	Ave	0.5180	0.5308		0.0205	0.0200	2.5	30.0
Cyclohexanone	Ave	0.0232	0.0220		0.190	0.200	-5.2	30.0
Pentachloroethane	Ave	0.0922	0.0430		0.0187	0.0400	-53.4*	30.0
1,2,3-Trimethylbenzene	Ave	2.840	3.064		0.0216	0.0200	7.9	30.0
Benzyl chloride	Ave	0.2499	0.2307		0.0185	0.0200	-7.7	30.0
1,3,5-Trichlorobenzene	Ave	0.8652	0.8858		0.0205	0.0200	2.4	30.0
2-Methylnaphthalene	Ave	1.041	0.9421		0.0362	0.0400	-9.5	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab File ID: BFB6368.D BFB Injection Date: 03/06/2020

Instrument ID: A3UX16 BFB Injection Time: 10:27

Analysis Batch No.: 425629

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.0	
75	30.0 - 60.0 % of mass 95	50.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.7) 1
174	50.0 - 120.00 % of mass 95	68.2	
175	5.0 - 9.0 % of mass 174	4.9	(7.2) 1
176	95.0 - 101.0 % of mass 174	66.1	(97.0) 1
177	5.0 - 9.0 % of mass 176	4.3	(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
	CCVIS 240-425629/3	UXM27176.D	03/06/2020	10:52
	CCV 240-425629/4	UXM27177.D	03/06/2020	11:17
	LCS 240-425629/5	UXM27178.D	03/06/2020	11:42
	MB 240-425629/8	UXM27181.D	03/06/2020	12:56
MSA-SW41D-030320	240-127107-16	UXM27186.D	03/06/2020	15:01
MSA-SW42A-030320	240-127107-17	UXM27187.D	03/06/2020	15:25
MSA-SW42B-030320	240-127107-18	UXM27188.D	03/06/2020	15:50
MSA-SW42C-030320	240-127107-19	UXM27189.D	03/06/2020	16:15
MSA-SW42D-030320	240-127107-20	UXM27190.D	03/06/2020	16:40
MSA-SW43A-030320	240-127107-21	UXM27191.D	03/06/2020	17:05
MSA-SW43B-030320	240-127107-22	UXM27192.D	03/06/2020	17:30
MSA-SW43C-030320	240-127107-23	UXM27193.D	03/06/2020	17:55
MSA-SW43D-030320	240-127107-24	UXM27194.D	03/06/2020	18:20
MSA-SW44A-030320	240-127107-25	UXM27195.D	03/06/2020	18:45
MSA-SW44B-030320	240-127107-26	UXM27196.D	03/06/2020	19:10
MSA-SW44C-030320	240-127107-27	UXM27197.D	03/06/2020	19:34
MSA-SW44D-030320	240-127107-28	UXM27198.D	03/06/2020	19:59
TB-030320	240-127107-29	UXM27199.D	03/06/2020	20:24
MSA-SW46A-030320	240-127107-30	UXM27200.D	03/06/2020	20:49
MSA-SW47A-030320	240-127107-31	UXM27201.D	03/06/2020	21:14
MSA-SW48A-030320	240-127107-32	UXM27202.D	03/06/2020	21:39
MSA-SW49A-030320	240-127107-33	UXM27203.D	03/06/2020	22:04

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCVIS 240-425629/3 Calibration Date: 03/06/2020 10:52

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM27176.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	0.2872	0.3154	0.1000	0.0220	0.0200	9.8	20.0
Chloromethane	Ave	0.4309	0.4229	0.1000	0.0196	0.0200	-1.8	20.0
Vinyl chloride	Ave	0.4363	0.4656	0.1000	0.0213	0.0200	6.7	20.0
Butadiene	Ave	0.3496	0.3823		0.0219	0.0200	9.4	20.0
Bromomethane	Ave	0.2822	0.1969	0.0500	0.0140	0.0200	-30.2*	20.0
Chloroethane	Ave	0.2288	0.2426	0.0500	0.0212	0.0200	6.0	20.0
Dichlorofluoromethane	Ave	0.4564	0.4631		0.0203	0.0200	1.5	20.0
Trichlorofluoromethane	Ave	0.3605	0.3875	0.1000	0.0215	0.0200	7.5	20.0
Ethyl ether	Ave	0.2010	0.1948		0.0194	0.0200	-3.1	20.0
Acrolein	Ave	0.0395	0.0325		0.0822	0.100	-17.8	20.0
1,1-Dichloroethene	Ave	0.2204	0.2319	0.1000	0.0210	0.0200	5.2	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1452	0.1765	0.0500	0.0243	0.0200	21.6*	20.0
Acetone	Lin1		0.0209	0.0100	0.0405	0.0400	1.3	50.0
Iodomethane	Ave	0.2509	0.1517		0.0121	0.0200	-39.5*	20.0
Carbon disulfide	Ave	0.7696	0.7967	0.1000	0.0207	0.0200	3.5	20.0
Methyl acetate	Ave	0.1749	0.1615	0.1000	0.0369	0.0400	-7.7	50.0
3-Chloro-1-propene	Ave	0.3901	0.3706		0.0190	0.0200	-5.0	20.0
Methylene Chloride	Ave	0.2676	0.2657	0.1000	0.0199	0.0200	-0.7	50.0
tert-Butyl alcohol	Ave	0.0216	0.0154		0.142	0.200	-29.0*	20.0
Acrylonitrile	Ave	0.0991	0.0973		0.196	0.200	-1.8	20.0
Methyl tert-butyl ether	Ave	0.7185	0.6213	0.1000	0.0173	0.0200	-13.5	20.0
trans-1,2-Dichloroethene	Ave	0.2681	0.2739	0.1000	0.0204	0.0200	2.2	20.0
Hexane	Ave	0.3670	0.4246		0.0231	0.0200	15.7	20.0
Vinyl acetate	Ave	0.4123	0.3781		0.0183	0.0200	-8.3	20.0
1,1-Dichloroethane	Ave	0.4678	0.4643	0.2000	0.0198	0.0200	-0.8	20.0
2-Butanone	Ave	0.0274	0.0250	0.0100	0.0364	0.0400	-9.0	50.0
cis-1,2-Dichloroethene	Ave	0.2840	0.2888	0.1000	0.0203	0.0200	1.7	20.0
2,2-Dichloropropane	Ave	0.4000	0.3627		0.0181	0.0200	-9.3	20.0
Bromochloromethane	Ave	0.1107	0.1178		0.0213	0.0200	6.4	20.0
Tetrahydrofuran	Ave	0.0696	0.0615		0.0353	0.0400	-11.8	20.0
Chloroform	Ave	0.4308	0.4293	0.2000	0.0199	0.0200	-0.4	20.0
1,1,1-Trichloroethane	Ave	0.3709	0.3563	0.1000	0.0192	0.0200	-3.9	20.0
Cyclohexane	Ave	0.4269	0.4769	0.1000	0.0223	0.0200	11.7	20.0
1,1-Dichloropropene	Ave	0.3760	0.3702		0.0197	0.0200	-1.6	20.0
Carbon tetrachloride	Ave	0.3039	0.3009	0.1000	0.0198	0.0200	-1.0	20.0
Isobutyl alcohol	Ave	0.0066	0.0058		0.444	0.500	-11.2	20.0
Benzene	Ave	1.109	1.113	0.5000	0.0201	0.0200	0.3	20.0
1,2-Dichloroethane	Ave	0.3402	0.3230	0.1000	0.0190	0.0200	-5.0	20.0
n-Heptane	Lin1		0.2488		0.0220	0.0200	9.8	20.0
Trichloroethene	Ave	0.2491	0.2555	0.1500	0.0205	0.0200	2.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCVIS 240-425629/3 Calibration Date: 03/06/2020 10:52

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM27176.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	0.4546	0.5017	0.1000	0.0221	0.0200	10.4	20.0
1,2-Dichloropropane	Ave	0.2573	0.2550	0.1000	0.0198	0.0200	-0.9	20.0
1,4-Dioxane	Ave	0.0030	0.0028		0.372	0.400	-7.0	50.0
Dibromomethane	Ave	0.1353	0.1357		0.0201	0.0200	0.3	20.0
Bromodichloromethane	Ave	0.3022	0.2892	0.1500	0.0191	0.0200	-4.3	20.0
2-Chloroethyl vinyl ether	Ave	0.1665	0.1439		0.0346	0.0400	-13.6	20.0
cis-1,3-Dichloropropene	Ave	0.3988	0.3762	0.1500	0.0189	0.0200	-5.7	50.0
4-Methyl-2-pentanone	Ave	0.1891	0.1688	0.0500	0.0357	0.0400	-10.8	50.0
Toluene	Ave	1.643	1.560	0.4000	0.0190	0.0200	-5.1	20.0
trans-1,3-Dichloropropene	Ave	0.5224	0.4504	0.1000	0.0172	0.0200	-13.8	20.0
Ethyl methacrylate	Ave	0.4095	0.3468		0.0169	0.0200	-15.3	20.0
1,1,2-Trichloroethane	Ave	0.2836	0.2761	0.1000	0.0195	0.0200	-2.7	20.0
Tetrachloroethene	Ave	0.2624	0.2661	0.1500	0.0203	0.0200	1.4	20.0
1,3-Dichloropropane	Ave	0.5549	0.5213		0.0188	0.0200	-6.0	20.0
2-Hexanone	Ave	0.1911	0.1648	0.0500	0.0345	0.0400	-13.8	50.0
Dibromochloromethane	Ave	0.2723	0.2564		0.0188	0.0200	-5.8	20.0
1,2-Dibromoethane	Ave	0.2788	0.2691		0.0193	0.0200	-3.5	20.0
Chlorobenzene	Ave	0.9885	0.9603	0.3000	0.0194	0.0200	-2.9	20.0
1,1,1,2-Tetrachloroethane	Lin1		0.2944		0.0163	0.0200	-18.7	20.0
Ethylbenzene	Ave	0.5781	0.5416		0.0187	0.0200	-6.3	20.0
m-Xylene & p-Xylene	Ave	0.6835	0.6554		0.0192	0.0200	-4.1	20.0
o-Xylene	Ave	0.6707	0.6247		0.0186	0.0200	-6.9	20.0
Styrene	Lin1		1.046	0.3000	0.0165	0.0200	-17.4	20.0
Bromoform	Lin1		0.1420	0.1000	0.0164	0.0200	-17.9	20.0
Isopropylbenzene	Ave	1.706	1.619	0.1000	0.0190	0.0200	-5.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7569	0.7029	0.3000	0.0186	0.0200	-7.1	20.0
Bromobenzene	Ave	0.7427	0.6971		0.0188	0.0200	-6.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2554	0.2091		0.0164	0.0200	-18.1	20.0
1,2,3-Trichloropropane	Ave	0.2422	0.2240		0.0185	0.0200	-7.5	20.0
n-Propylbenzene	Ave	1.003	0.9250		0.0184	0.0200	-7.8	20.0
2-Chlorotoluene	Ave	0.8082	0.7479		0.0185	0.0200	-7.5	20.0
1,3,5-Trimethylbenzene	Ave	2.979	2.716		0.0182	0.0200	-8.8	20.0
4-Chlorotoluene	Ave	0.8455	0.7888		0.0187	0.0200	-6.7	20.0
tert-Butylbenzene	Ave	2.493	2.278		0.0183	0.0200	-8.6	20.0
1,2,4-Trimethylbenzene	Ave	2.962	2.720		0.0184	0.0200	-8.2	20.0
sec-Butylbenzene	Ave	3.847	3.596		0.0187	0.0200	-6.5	20.0
1,3-Dichlorobenzene	Ave	1.495	1.390	0.6000	0.0186	0.0200	-7.0	20.0
p-Isopropyltoluene	Ave	3.235	2.980		0.0184	0.0200	-7.9	20.0
1,4-Dichlorobenzene	Ave	1.499	1.407	0.5000	0.0188	0.0200	-6.1	20.0
n-Butylbenzene	Ave	3.004	2.802		0.0187	0.0200	-6.7	20.0
1,2-Dichlorobenzene	Ave	1.362	1.303	0.4000	0.0191	0.0200	-4.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCVIS 240-425629/3 Calibration Date: 03/06/2020 10:52

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM27176.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	0.1219	0.1015	0.0500	0.0167	0.0200	-16.7	50.0
1,2,4-Trichlorobenzene	Ave	0.7237	0.6400	0.2000	0.0177	0.0200	-11.6	50.0
Hexachlorobutadiene	Ave	0.3183	0.2951		0.0185	0.0200	-7.3	50.0
Naphthalene	Ave	2.161	1.853		0.0171	0.0200	-14.3	50.0
1,2,3-Trichlorobenzene	Ave	0.6486	0.5968		0.0184	0.0200	-8.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2086	0.2079		0.0199	0.0200	-0.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2713	0.2444		0.0180	0.0200	-9.9	20.0
Toluene-d8 (Surr)	Ave	1.312	1.229		0.0187	0.0200	-6.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4527	0.4876		0.0215	0.0200	7.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCV 240-425629/4 Calibration Date: 03/06/2020 11:17

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 21:24

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 23:28

Lab File ID: UXM27177.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	0.0355	0.0383		0.216	0.200	7.9	20.0
Diisopropyl ether	Ave	0.2073	0.2167		0.0209	0.0200	4.5	20.0
2-Chloro-1,3-butadiene	Ave	0.3800	0.3934		0.0207	0.0200	3.5	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7002	0.6671		0.0191	0.0200	-4.7	20.0
Ethyl acetate	Ave	0.2229	0.2106		0.0378	0.0400	-5.6	20.0
Propionitrile	Ave	0.0383	0.0417		0.218	0.200	9.1	20.0
Methacrylonitrile	Ave	0.1613	0.1634		0.203	0.200	1.3	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.6703	0.5941		0.0177	0.0200	-11.4	20.0
n-Butanol	Ave	0.0060	0.0048		0.400	0.500	-19.9	20.0
Ethyl acrylate	Ave	0.2711	0.2569		0.0190	0.0200	-5.2	20.0
Methyl methacrylate	Ave	0.1945	0.1933		0.0397	0.0400	-0.6	20.0
2-Nitropropane	Ave	0.0638	0.0552		0.0346	0.0400	-13.6	20.0
n-Butyl acetate	Ave	0.3053	0.2567		0.0168	0.0200	-15.9	20.0
1-Chlorohexane	Ave	0.5180	0.5143		0.0199	0.0200	-0.7	20.0
Cyclohexanone	Ave	0.0232	0.0163		0.141	0.200	-29.7*	20.0
Pentachloroethane	Ave	0.0922	0.1545		0.0670	0.0400	67.4*	20.0
1,2,3-Trimethylbenzene	Ave	2.840	2.992		0.0211	0.0200	5.4	20.0
Benzyl chloride	Ave	0.2499	0.2564		0.0205	0.0200	2.6	20.0
1,3,5-Trichlorobenzene	Ave	0.8652	0.9291		0.0215	0.0200	7.4	20.0
2-Methylnaphthalene	Ave	1.041	0.8011		0.0308	0.0400	-23.0*	20.0

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab File ID: UXM27181.D Lab Sample ID: MB 240-425629/8

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

Instrument ID: A3UX16 Date Analyzed: 03/06/2020 12:56

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 240-425629/5	UXM27178.D	03/06/2020 11:42
MSA-SW41D-030320	240-127107-16	UXM27186.D	03/06/2020 15:01
MSA-SW42A-030320	240-127107-17	UXM27187.D	03/06/2020 15:25
MSA-SW42B-030320	240-127107-18	UXM27188.D	03/06/2020 15:50
MSA-SW42C-030320	240-127107-19	UXM27189.D	03/06/2020 16:15
MSA-SW42D-030320	240-127107-20	UXM27190.D	03/06/2020 16:40
MSA-SW43A-030320	240-127107-21	UXM27191.D	03/06/2020 17:05
MSA-SW43B-030320	240-127107-22	UXM27192.D	03/06/2020 17:30
MSA-SW43C-030320	240-127107-23	UXM27193.D	03/06/2020 17:55
MSA-SW43D-030320	240-127107-24	UXM27194.D	03/06/2020 18:20
MSA-SW44A-030320	240-127107-25	UXM27195.D	03/06/2020 18:45
MSA-SW44B-030320	240-127107-26	UXM27196.D	03/06/2020 19:10
MSA-SW44C-030320	240-127107-27	UXM27197.D	03/06/2020 19:34
MSA-SW44D-030320	240-127107-28	UXM27198.D	03/06/2020 19:59
TB-030320	240-127107-29	UXM27199.D	03/06/2020 20:24
MSA-SW46A-030320	240-127107-30	UXM27200.D	03/06/2020 20:49
MSA-SW47A-030320	240-127107-31	UXM27201.D	03/06/2020 21:14
MSA-SW48A-030320	240-127107-32	UXM27202.D	03/06/2020 21:39
MSA-SW49A-030320	240-127107-33	UXM27203.D	03/06/2020 22:04

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425629/8

Matrix: Water Lab File ID: UXM27181.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 12:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425629/8

Matrix: Water Lab File ID: UXM27181.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 12:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425629/8

Matrix: Water Lab File ID: UXM27181.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 12:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	112		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425629/8

Matrix: Water Lab File ID: UXM27181.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 12:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

Number TICs Found: 1 TIC Result Total: 3.84

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.58	3.84	T J	

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM27178.D

Lab ID: LCS 240-425629/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	17.9	89	77-120	
1,1,1-Trichloroethane	20.0	21.6	108	65-141	
1,1,2,2-Tetrachloroethane	20.0	21.3	107	45-151	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	24.4	122	54-148	
1,1-Dichloroethane	20.0	22.0	110	74-126	
1,1-Dichloroethene	20.0	23.1	115	73-129	
1,1-Dichloropropene	20.0	21.0	105	78-120	
1,2,3-Trichlorobenzene	20.0	21.5	108	42-126	
1,2,3-Trichloropropane	20.0	21.1	106	57-137	
1,2,4-Trichlorobenzene	20.0	20.9	104	47-120	
1,2,4-Trimethylbenzene	20.0	21.0	105	66-129	
1,2-Dibromo-3-Chloropropane	20.0	20.4	102	34-136	
1,2-Dichlorobenzene	20.0	21.2	106	74-120	
1,2-Dichloroethane	20.0	21.2	106	66-129	
1,2-Dichloropropane	20.0	22.7	114	79-127	
1,3-Dichlorobenzene	20.0	21.2	106	74-120	
1,3-Dichloropropane	20.0	21.1	106	74-122	
1,4-Dichlorobenzene	20.0	21.3	107	75-120	
2,2-Dichloropropane	20.0	20.4	102	67-137	
2-Chloroethyl vinyl ether	20.0	18.7	93	29-146	
2-Chlorotoluene	20.0	21.2	106	73-126	
2-Hexanone	40.0	38.5	96	43-142	
Bromobenzene	20.0	21.6	108	77-120	
Bromochloromethane	20.0	23.1	116	70-128	
4-Chlorotoluene	20.0	21.4	107	73-126	
p-Isopropyltoluene	20.0	20.7	103	66-127	
Acetone	40.0	45.3	113	33-155	
Benzene	20.0	22.2	111	77-123	
Bromoform	20.0	18.6	93	47-133	
Bromomethane	20.0	17.2	86	48-144	
Carbon disulfide	20.0	21.6	108	67-127	
Carbon tetrachloride	20.0	21.3	106	61-142	
Chlorobenzene	20.0	21.4	107	80-120	
Chloroethane	20.0	24.4	122	41-147	
Chloroform	20.0	22.1	111	74-127	
Chloromethane	20.0	21.1	105	46-148	
cis-1,2-Dichloroethene	20.0	23.0	115	75-124	
cis-1,3-Dichloropropene	20.0	21.3	107	68-128	
Hexachlorobutadiene	20.0	21.0	105	40-120	
Dibromomethane	20.0	22.5	112	67-121	
Bromodichloromethane	20.0	21.8	109	73-122	

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.: 240-127107-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM27178.D

Lab ID: LCS 240-425629/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20.0	19.5	97	35-137	
Ethylbenzene	20.0	20.9	104	80-120	
1,2-Dibromoethane	20.0	21.4	107	73-120	
Naphthalene	20.0	20.5	103	28-130	
m-Xylene & p-Xylene	20.0	21.2	106	79-121	
n-Butylbenzene	20.0	20.4	102	54-129	
Isopropylbenzene	20.0	21.2	106	73-123	
n-Propylbenzene	20.0	20.8	104	67-130	
2-Butanone	40.0	43.1	108	41-151	
4-Methyl-2-pentanone	40.0	42.0	105	43-145	
sec-Butylbenzene	20.0	20.7	104	60-131	
Methyl tert-butyl ether	20.0	19.8	99	57-127	
Methylene Chloride	20.0	21.8	109	63-134	
o-Xylene	20.0	20.7	103	75-123	
Styrene	20.0	18.6	93	75-121	
tert-Butylbenzene	20.0	20.5	103	63-126	
Tetrachloroethene	20.0	22.1	111	70-125	
Toluene	20.0	21.1	105	79-122	
trans-1,2-Dichloroethene	20.0	23.0	115	74-130	
trans-1,3-Dichloropropene	20.0	18.5	92	64-120	
Trichloroethene	20.0	22.6	113	71-121	
Trichlorofluoromethane	20.0	23.5	118	52-148	
Vinyl acetate	20.0	22.4	112	44-160	
Vinyl chloride	20.0	22.8	114	61-134	
tert-Butyl alcohol	200	175	87	15-169	
Xylenes, Total	40.0	41.9	105	78-122	
Dibromochloromethane	20.0	21.2	106	75-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab File ID: bfb036.d BFB Injection Date: 07/24/2018

Instrument ID: A3UX19 BFB Injection Time: 17:22

Analysis Batch No.: 337766

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.1	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	1.1	(1.2) 1
174	50.0 - 120.00 % of mass 95	84.3	
175	5.0 - 9.0 % of mass 174	6.2	(7.4) 1
176	95.0 - 101.0 % of mass 174	80.7	(95.7) 1
177	5.0 - 9.0 % of mass 176	5.4	(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 240-337766/2	U1900783.d	07/24/2018	17:50
	STD8260 240-337766/3	U1900784.d	07/24/2018	18:13
	STD8260 240-337766/9	U1900790.d	07/24/2018	18:35
	ICIS 240-337766/10	U1900791.d	07/24/2018	18:57
	STD8260 240-337766/11	U1900792.d	07/24/2018	19:20
	STD8260 240-337766/12	U1900793.d	07/24/2018	19:42
	STD8260 240-337766/13	U1900794.d	07/24/2018	20:04

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-337766/13	U1900794.d
Level 2	STD8260 240-337766/12	U1900793.d
Level 3	STD8260 240-337766/11	U1900792.d
Level 4	ICIS 240-337766/10	U1900791.d
Level 5	STD8260 240-337766/9	U1900790.d
Level 6	STD8260 240-337766/3	U1900784.d
Level 7	STD8260 240-337766/2	U1900783.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	0.2985 0.3869	0.3275 0.3899	0.3189	0.3531	0.3613	Ave		0.3480			0.1000	10.0		20.0			
Chloromethane	0.3558 0.3258	0.3705 0.3191	0.3263	0.3392	0.3223	Ave		0.3370			0.1000	5.8		20.0			
Butadiene	0.3408 0.3374	0.3424 0.3377	0.2895	0.3248	0.3219	Ave		0.3278				5.7		20.0			
Vinyl chloride	0.2746 0.3390	0.3544 0.3374	0.3113	0.3366	0.3288	Ave		0.3260			0.1000	8.0		20.0			
Bromomethane	0.2749 0.2254	0.2866 0.2173	0.2405	0.2466	0.2251	Ave		0.2452			0.0500	10.8		20.0			
Chloroethane	0.2109 0.1921	0.2097 0.1854	0.1960	0.2032	0.1901	Ave		0.1982			0.0500	5.0		20.0			
Dichlorofluoromethane	0.5221 0.4475	0.4917 0.4372	0.4526	0.4727	0.4486	Ave		0.4675				6.5		20.0			
Trichlorofluoromethane	0.4494 0.4561	0.4680 0.4427	0.3932	0.4472	0.4396	Ave		0.4423			0.1000	5.3		20.0			
Ethyl ether	0.2193 0.1979	0.2111 0.1891	0.1902	0.1939	0.1890	Ave		0.1987				6.0		20.0			
Acrolein	0.0586 0.0546	0.0507 0.0535	0.0446	0.0490	0.0542	Ave		0.0522				8.7		20.0			
1,1-Dichloroethene	0.3808 0.3850	0.3828 0.3735	0.3902	0.3740	0.3655	Ave		0.3788			0.1000	2.2		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2602 0.2706	0.2860 0.2683	0.2820	0.2661	0.2580	Ave		0.2702			0.0500	3.9		20.0			
Acetone	+++++ 0.0784	0.0790 0.0643	0.0549	0.0580	0.0606	Ave		0.0659			0.0100	15.8		20.0			
Iodomethane	0.4645 0.4649	0.4824 0.4542	0.4796	0.4736	0.4610	Ave		0.4686				2.2		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.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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								
Carbon disulfide	1.0264 0.7904	0.9769 0.7703	0.8143	0.7839	0.7630	Ave		0.8465			0.1000	12.8		20.0			
3-Chloro-1-propene	0.4236 0.3955	0.4245 0.3845	0.3864	0.3828	0.3812	Ave		0.3969				4.8		20.0			
Methyl acetate	0.2893 0.2388	0.2199 0.2093	0.2069	0.2105	0.2113	Ave		0.2266			0.1000	13.1		20.0			
Methylene Chloride	+++++ 0.2977	0.3380 0.2854	0.3031	0.3009	0.2892	Ave		0.3024			0.1000	6.2		20.0			
2-Methyl-2-propanol	+++++ 0.0272	0.0286 +++++	0.0233	0.0231	0.0210	Ave		0.0246				12.8		20.0			
Acrylonitrile	0.1149 0.1149	0.0936 0.0991	0.0942	0.0985	0.1008	Ave		0.1023				8.8		20.0			
trans-1,2-Dichloroethene	0.4272 0.3621	0.3980 0.3508	0.3681	0.3544	0.3490	Ave		0.3728			0.1000	7.8		20.0			
Methyl tert-butyl ether	0.6889 0.7038	0.7226 0.6502	0.7037	0.7046	0.6888	Ave		0.6946			0.1000	3.3		20.0			
Hexane	0.4016 0.4127	0.4088 0.4136	0.4369	0.3839	0.3905	Ave		0.4069				4.3		20.0			
1,1-Dichloroethane	0.4297 0.4479	0.4309 0.4358	0.4483	0.4451	0.4391	Ave		0.4395			0.2000	1.8		20.0			
Vinyl acetate	0.4180 0.4211	0.3784 0.4083	0.3943	0.3850	0.3928	Ave		0.3997				4.1		20.0			
cis-1,2-Dichloroethene	0.3259 0.3058	0.3308 0.2928	0.3020	0.3030	0.2971	Ave		0.3082			0.1000	4.7		20.0			
2-Butanone (MEK)	+++++ 0.0411	0.0357 0.0381	0.0358	0.0358	0.0391	Ave		0.0376			0.0100	6.0		20.0			
2,2-Dichloropropane	0.2667 0.2404	0.2856 0.2633	0.2822	0.2661	0.2457	Ave		0.2643				6.4		20.0			
Chlorobromomethane	0.2447 0.2004	0.2207 0.1830	0.1878	0.1937	0.1884	Ave		0.2027				11.0		20.0			
Tetrahydrofuran	0.0995 0.1054	0.1040 0.0940	0.0907	0.0913	0.0950	Ave		0.0971				6.1		20.0			
Chloroform	0.4629 0.4616	0.4798 0.4429	0.4485	0.4541	0.4433	Ave		0.4561			0.2000	2.9		20.0			
1,1,1-Trichloroethane	0.3956 0.4177	0.3988 0.4154	0.4324	0.4070	0.4089	Ave		0.4108			0.1000	3.0		20.0			
Cyclohexane	0.4246 0.4364	0.4382 0.4292	0.4507	0.4156	0.4161	Ave		0.4301			0.1000	3.0		20.0			
1,1-Dichloropropene	0.3755 0.3758	0.3903 0.3692	0.3840	0.3595	0.3614	Ave		0.3737				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.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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								
Carbon tetrachloride	0.3639 0.3981	0.3846 0.3917	0.3944	0.3722	0.3729	Ave		0.3825			0.1000	3.4		20.0			
Isobutyl alcohol	0.0095 0.0104	0.0071 0.0087	0.0088	0.0079	0.0092	Ave		0.0088				12.2		20.0			
Benzene	0.9890 1.0452	1.0827 1.0051	1.0373	1.0007	1.0215	Ave		1.0259			0.5000	3.1		20.0			
1,2-Dichloroethane	0.3674 0.3257	0.3549 0.3127	0.3205	0.3110	0.3150	Ave		0.3296			0.1000	6.8		20.0			
n-Heptane	+++++ 0.2252	0.7970 0.2266	0.2839	0.2324	0.2217	Lin1	0.5799	0.2147				4.3			0.9990		0.9900
Trichloroethene	0.3122 0.3167	0.3258 0.3140	0.3258	0.3068	0.3105	Ave		0.3160			0.1500	2.3		20.0			
Methylcyclohexane	0.4985 0.5342	0.5073 0.5200	0.5394	0.4970	0.4957	Ave		0.5132			0.1000	3.6		20.0			
1,2-Dichloropropane	0.2050 0.2404	0.2394 0.2326	0.2309	0.2270	0.2376	Ave		0.2304			0.1000	5.3		20.0			
Dibromomethane	0.2379 0.2151	0.2154 0.2010	0.2009	0.2115	0.2105	Ave		0.2132				5.8		20.0			
1,4-Dioxane	+++++ 0.0024	0.0017 0.0024	0.0024	0.0024	0.0023	Ave		0.0023				13.5		20.0			
Dichlorobromomethane	0.3232 0.3408	0.3027 0.3295	0.3203	0.3127	0.3310	Ave		0.3229			0.1500	3.9		20.0			
2-Chloroethyl vinyl ether	0.1601 0.1755	0.1580 0.1783	0.1797	0.1698	0.1774	Ave		0.1713				5.2		20.0			
cis-1,3-Dichloropropene	0.3599 0.3873	0.3811 0.3872	0.3686	0.3735	0.3865	Ave		0.3777			0.1500	2.8		20.0			
4-Methyl-2-pentanone (MIBK)	0.2834 0.3221	0.2998 0.3046	0.3240	0.2983	0.3095	Ave		0.3059			0.0500	4.6		20.0			
Toluene	1.5618 1.4027	1.4672 1.4180	1.4098	1.3276	1.3894	Ave		1.4252			0.4000	5.1		20.0			
trans-1,3-Dichloropropene	0.4760 0.4702	0.4587 0.4631	0.4478	0.4252	0.4649	Ave		0.4580			0.1000	3.7		20.0			
Ethyl methacrylate	0.4185 0.4604	0.4061 0.4531	0.4309	0.4112	0.4583	Ave		0.4341				5.3		20.0			
1,1,2-Trichloroethane	0.2547 0.2895	0.2773 0.2862	0.2834	0.2725	0.2908	Ave		0.2792			0.1000	4.5		20.0			
Tetrachloroethene	0.4086 0.4320	0.4228 0.4317	0.4309	0.4048	0.4173	Ave		0.4212			0.1500	2.7		20.0			
1,3-Dichloropropane	0.4853 0.4890	0.5028 0.4855	0.4893	0.4635	0.4865	Ave		0.4860				2.4		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.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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								
2-Hexanone	0.2860 0.3061	0.2740 0.2989	0.3048	0.2770	0.2999	Ave		0.2924			0.0500	4.5		20.0			
Chlorodibromomethane	0.3153 0.3531	0.3347 0.3456	0.3254	0.3197	0.3424	Ave		0.3337				4.2		20.0			
Ethylene Dibromide	0.3316 0.3186	0.3371 0.3125	0.3153	0.3013	0.3163	Ave		0.3190				3.8		20.0			
Chlorobenzene	0.9988 0.9439	1.0195 0.9268	0.9392	0.9052	0.9346	Ave		0.9526			0.3000	4.3		20.0			
1,1,1,2-Tetrachloroethane	0.2852 0.3466	0.3288 0.3341	0.3290	0.3310	0.3341	Ave		0.3270				5.9		20.0			
Ethylbenzene	0.4594 0.5246	0.5226 0.5211	0.5127	0.4996	0.5108	Ave		0.5073				4.5		20.0			
m-Xylene & p-Xylene	0.6169 0.6437	0.6148 0.6359	0.6355	0.6137	0.6232	Ave		0.6262				1.9		20.0			
o-Xylene	0.5941 0.6233	0.5896 0.6029	0.6245	0.6014	0.5968	Ave		0.6047				2.3		20.0			
Styrene	0.9580 1.0545	0.9583 1.0320	1.0135	0.9872	1.0201	Ave		1.0034			0.3000	3.7		20.0			
Bromoform	+++++ 0.2846	0.2440 0.2826	0.2606	0.2566	0.2726	Ave		0.2668			0.1000	6.0		20.0			
Isopropylbenzene	1.5546 1.6483	1.5581 1.6164	1.6482	1.5866	1.5868	Ave		1.5999			0.1000	2.4		20.0			
1,1,2,2-Tetrachloroethane	0.7561 0.8073	0.8321 0.7913	0.8175	0.7659	0.8099	Ave		0.7972			0.3000	3.5		20.0			
Bromobenzene	0.8153 0.7490	0.7267 0.7427	0.7731	0.7237	0.7577	Ave		0.7555				4.2		20.0			
1,2,3-Trichloropropane	0.3160 0.2796	0.2566 0.2769	0.2966	0.2651	0.2852	Ave		0.2823				7.0		20.0			
trans-1,4-Dichloro-2-butene	0.2699 0.2473	0.2213 0.2516	0.2435	0.2261	0.2517	Ave		0.2445				6.7		20.0			
N-Propylbenzene	0.7798 0.8210	0.7523 0.8202	0.8514	0.7731	0.8029	Ave		0.8001				4.2		20.0			
2-Chlorotoluene	0.6509 0.6957	0.7125 0.6833	0.7132	0.6770	0.6858	Ave		0.6883				3.1		20.0			
1,3,5-Trimethylbenzene	2.0585 2.3418	2.1282 2.3386	2.4321	2.2627	2.2905	Ave		2.2646				5.7		20.0			
4-Chlorotoluene	0.7199 0.7173	0.7260 0.7141	0.7528	0.6936	0.7171	Ave		0.7201				2.4		20.0			
tert-Butylbenzene	2.0893 2.2086	2.2305 2.1805	2.3049	2.0958	2.1272	Ave		2.1767				3.6		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.3016 2.3641	2.3139 2.3974	2.4350	2.3225	2.3165	Ave		2.3501				2.1		20.0			
sec-Butylbenzene	2.8312 3.0965	2.8639 3.1341	3.2011	2.9684	2.9595	Ave		3.0078				4.6		20.0			
1,3-Dichlorobenzene	1.6206 1.4203	1.5501 1.4165	1.4543	1.3821	1.4074	Ave		1.4645			0.6000	6.0		20.0			
4-Isopropyltoluene	2.3868 2.6740	2.3755 2.7456	2.7383	2.5786	2.5586	Ave		2.5796				5.9		20.0			
1,4-Dichlorobenzene	1.7882 1.4335	1.6574 1.4328	1.4853	1.4002	1.4320	Ave		1.5185			0.5000	9.7		20.0			
n-Butylbenzene	2.0220 2.3242	2.1252 2.3914	2.3447	2.2111	2.1782	Ave		2.2281				5.9		20.0			
1,2-Dichlorobenzene	1.3936 1.3079	1.4283 1.3217	1.3446	1.2913	1.2861	Ave		1.3391			0.4000	4.0		20.0			
1,2-Dibromo-3-Chloropropane	0.2394 0.2501	0.2225 0.2556	0.2287	0.2293	0.2369	Ave		0.2375			0.0500	5.0		20.0			
1,2,4-Trichlorobenzene	1.0063 0.8577	1.0084 0.9508	0.8893	0.8765	0.8484	Ave		0.9196			0.2000	7.4		20.0			
Hexachlorobutadiene	0.4988 0.4431	0.5134 0.5128	0.4874	0.4604	0.4444	Ave		0.4800				6.4		20.0			
Naphthalene	2.5280 2.5374	2.6896 2.7560	2.5594	2.5256	2.5586	Ave		2.5935				3.5		20.0			
1,2,3-Trichlorobenzene	0.8270 0.7867	0.8451 0.9084	0.8355	0.8114	0.8072	Ave		0.8316				4.7		20.0			
Dibromofluoromethane (Surr)	0.2924 0.2586	0.2650 0.2453	0.2515	0.2531	0.2466	Ave		0.2589				6.3		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3213 0.2669	0.3001 0.2485	0.2625	0.2659	0.2555	Ave		0.2744				9.6		20.0			
Toluene-d8 (Surr)	1.2522 1.2151	1.2033 1.2031	1.2111	1.1433	1.2004	Ave		1.2041				2.7		20.0			
4-Bromofluorobenzene (Surr)	0.5696 0.4390	0.4918 0.4279	0.4472	0.4315	0.4318	Ave		0.4627				11.2		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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	50.0 - 120.00 % 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
	ICV 240-337917/14	U1900808.d	07/25/2018	15:37

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 337917

SDG No.:

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			
Cyclohexanone	0.0133 0.0157	0.0130	0.0126	0.0136	0.0138	Ave		0.0137				7.9		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.: 240-127107-1 Analy Batch No.: 337917

SDG No.:

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								
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 VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-337917/14 Calibration Date: 07/25/2018 15:37

Instrument ID: A3UX19 Calib Start Date: 07/24/2018 17:50

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/24/2018 20:04

Lab File ID: U1900808.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	0.2589	0.2758		0.0213	0.0200	6.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2744	0.2888		0.0211	0.0200	5.3	30.0
Toluene-d8 (Surr)	Ave	1.204	1.258		0.0209	0.0200	4.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4627	0.4749		0.0205	0.0200	2.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-337917/14 Calibration Date: 07/25/2018 15:37

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: U1900808.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		0.0327		0.164	0.200	-17.8	30.0
Diisopropyl ether	Ave	0.2313	0.2381		0.0206	0.0200	3.0	30.0
2-Chloro-1,3-butadiene	Ave	0.3979	0.4016		0.0202	0.0200	0.9	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7258	0.7451		0.0205	0.0200	2.7	30.0
Ethyl acetate	Ave	0.3007	0.2753		0.0366	0.0400	-8.5	30.0
Propionitrile	Ave	0.0408	0.0395		0.194	0.200	-3.0	30.0
Methacrylonitrile	Ave	0.1828	0.1926		0.211	0.200	5.3	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.7700	0.7828		0.0203	0.0200	1.7	30.0
n-Butanol	Ave	0.0094	0.0086		0.457	0.500	-8.6	30.0
Ethyl acrylate	Ave	0.3703	0.3736		0.0202	0.0200	0.9	30.0
Methyl methacrylate	Ave	0.2459	0.2495		0.0406	0.0400	1.5	30.0
2-Nitropropane	Ave	0.0726	0.0727		0.0400	0.0400	0.1	30.0
n-Butyl acetate	Ave	0.5364	0.5464		0.0204	0.0200	1.9	30.0
1-Chlorohexane	Ave	0.4610	0.4451		0.0193	0.0200	-3.4	30.0
Cyclohexanone	Ave	0.0137	0.0138		0.202	0.200	1.0	30.0
Pentachloroethane	Ave	0.3462	0.3376		0.0390	0.0400	-2.5	30.0
1,2,3-Trimethylbenzene	Ave	2.276	2.407		0.0212	0.0200	5.8	30.0
Benzyl chloride	Ave	1.286	1.208		0.0188	0.0200	-6.1	30.0
1,3,5-Trichlorobenzene	Ave	1.021	1.003		0.0196	0.0200	-1.8	30.0
2-Methylnaphthalene	Ave	1.433	1.388		0.0388	0.0400	-3.1	30.0

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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	50.0 - 120.00 % 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.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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			
Iodomethane	0.4872 0.4597	0.4730 0.4538	0.4730	0.4575	0.4539	Ave		0.4655				2.7		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
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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								
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			
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			

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.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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								
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			
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			

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.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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								
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			
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			

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.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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								
1,2,4-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			
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 VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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	0.4762		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	0.3611		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	0.1020		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	0.3554	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.: 240-127107-1

SDG No.:

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	0.3495	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	0.4447	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	0.3632		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	0.4959		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.: 240-127107-1

SDG No.:

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	0.2412	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	0.2770		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.: 240-127107-1

SDG No.:

Lab File ID: bfb469.d BFB Injection Date: 03/05/2020

Instrument ID: A3UX19 BFB Injection Time: 18:08

Analysis Batch No.: 425546

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.1	
75	30.0 - 60.0 % of mass 95	49.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	87.3	
175	5.0 - 9.0 % of mass 174	7.5	(8.6) 1
176	95.0 - 101.0 % of mass 174	83.7	(95.8) 1
177	5.0 - 9.0 % of mass 176	5.4	(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
	CCV 240-425546/3	U1913206.d	03/05/2020	18:31
	CCVIS 240-425546/4	U1913207.d	03/05/2020	18:53
	LCS 240-425546/5	U1913208.d	03/05/2020	19:16
	MB 240-425546/8	U1913211.d	03/05/2020	20:24
MSA-SW37A-030320	240-127107-1	U1913214.d	03/05/2020	21:31
MSA-SW37B-030320	240-127107-2	U1913215.d	03/05/2020	21:54
MSA-SW37C-030320	240-127107-3	U1913216.d	03/05/2020	22:16
MSA-SW37D-030320	240-127107-4	U1913217.d	03/05/2020	22:39
MSA-SW38A-030320	240-127107-5	U1913218.d	03/05/2020	23:02
MSA-SW38B-030320	240-127107-6	U1913219.d	03/05/2020	23:24
MSA-SW38C-030320	240-127107-7	U1913220.d	03/05/2020	23:47
MSA-SW38D-030320	240-127107-8	U1913221.d	03/06/2020	00:09
MSA-SW40A-030320	240-127107-9	U1913222.d	03/06/2020	00:31
MSA-SW40B-030320	240-127107-10	U1913223.d	03/06/2020	00:54
MSA-SW40C-030320	240-127107-11	U1913224.d	03/06/2020	01:16
MSA-SW40D-030320	240-127107-12	U1913225.d	03/06/2020	01:39
MSA-SW41A-030320	240-127107-13	U1913226.d	03/06/2020	02:01
MSA-SW41B-030320	240-127107-14	U1913227.d	03/06/2020	02:24
MSA-SW41C-030320	240-127107-15	U1913228.d	03/06/2020	02:46

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCV 240-425546/3 Calibration Date: 03/05/2020 18:31

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: U1913206.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		0.0308		0.155	0.200	-22.7*	20.0
Diisopropyl ether	Ave	0.2313	0.2003		0.0173	0.0200	-13.4	20.0
2-Chloro-1,3-butadiene	Ave	0.3979	0.3338		0.0168	0.0200	-16.1	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7258	0.5208		0.0144	0.0200	-28.2*	20.0
Propionitrile	Ave	0.0408	0.0474		0.233	0.200	16.3	20.0
Ethyl acetate	Ave	0.3007	0.2466		0.0328	0.0400	-18.0	20.0
Methacrylonitrile	Ave	0.1828	0.1541		0.169	0.200	-15.7	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.7700	0.5758		0.0150	0.0200	-25.2*	20.0
n-Butanol	Ave	0.0094	0.0115		0.613	0.500	22.6*	20.0
Ethyl acrylate	Ave	0.3703	0.3165		0.0171	0.0200	-14.5	20.0
Methyl methacrylate	Ave	0.2459	0.1917		0.0312	0.0400	-22.0*	20.0
2-Nitropropane	Ave	0.0726	0.0758		0.0418	0.0400	4.5	20.0
n-Butyl acetate	Ave	0.5364	0.3944		0.0147	0.0200	-26.5*	20.0
1-Chlorohexane	Ave	0.4610	0.3896		0.0169	0.0200	-15.5	20.0
Cyclohexanone	Ave	0.0137	0.0123		0.180	0.200	-10.0	20.0
Pentachloroethane	Ave	0.3462	0.3997		0.0462	0.0400	15.4	20.0
1,2,3-Trimethylbenzene	Ave	2.276	2.166		0.0190	0.0200	-4.8	20.0
Benzyl chloride	Ave	1.286	1.410		0.0219	0.0200	9.6	20.0
1,3,5-Trichlorobenzene	Ave	1.021	0.7456		0.0146	0.0200	-27.0*	20.0
2-Methylnaphthalene	Ave	1.433	0.6306		0.0176	0.0400	-56.0*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCVIS 240-425546/4 Calibration Date: 03/05/2020 18:53

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: U1913207.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	0.3328	0.1000	0.0173	0.0200	-13.6	20.0
Chloromethane	Ave	0.2883	0.2441	0.1000	0.0169	0.0200	-15.3	20.0
Butadiene	Ave	0.2887	0.2191		0.0152	0.0200	-24.1*	20.0
Vinyl chloride	Ave	0.2980	0.2658	0.1000	0.0178	0.0200	-10.8	20.0
Bromomethane	Ave	0.2335	0.2340	0.0500	0.0200	0.0200	0.2	20.0
Chloroethane	Ave	0.1848	0.1866	0.0500	0.0202	0.0200	1.0	20.0
Dichlorofluoromethane	Ave	0.4581	0.4416		0.0193	0.0200	-3.6	20.0
Trichlorofluoromethane	Ave	0.4984	0.4481	0.1000	0.0180	0.0200	-10.1	20.0
Ethyl ether	Ave	0.1800	0.1857		0.0206	0.0200	3.1	20.0
Acrolein	Ave	0.0445	0.0418		0.0941	0.100	-5.9	20.0
1,1-Dichloroethene	Ave	0.3589	0.3431	0.1000	0.0191	0.0200	-4.4	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2567	0.2731	0.0500	0.0213	0.0200	6.4	20.0
Acetone	Ave	0.0784	0.0785	0.0100	0.0400	0.0400	0.1	50.0
Iodomethane	Ave	0.4655	0.4721		0.0203	0.0200	1.4	20.0
Carbon disulfide	Ave	0.7515	0.7399	0.1000	0.0197	0.0200	-1.5	20.0
3-Chloro-1-propene	Ave	0.3541	0.2652		0.0150	0.0200	-25.1*	20.0
Methyl acetate	Ave	0.2328	0.1976	0.1000	0.0340	0.0400	-15.1	50.0
Methylene Chloride	Ave	0.2846	0.2508	0.1000	0.0176	0.0200	-11.9	50.0
tert-Butyl alcohol	Ave	0.0271	0.0246		0.181	0.200	-9.3	20.0
Acrylonitrile	Ave	0.1006	0.1058		0.210	0.200	5.2	20.0
Methyl tert-butyl ether	Ave	0.6938	0.5947	0.1000	0.0171	0.0200	-14.3	20.0
trans-1,2-Dichloroethene	Ave	0.3387	0.3207	0.1000	0.0189	0.0200	-5.3	20.0
Hexane	Ave	0.3524	0.3027		0.0172	0.0200	-14.1	20.0
1,1-Dichloroethane	Ave	0.4048	0.3964	0.2000	0.0196	0.0200	-2.1	20.0
Vinyl acetate	Ave	0.4639	0.3910		0.0169	0.0200	-15.7	20.0
2,2-Dichloropropane	Ave	0.2438	0.2175		0.0178	0.0200	-10.8	20.0
2-Butanone	Ave	0.0472	0.0445	0.0100	0.0377	0.0400	-5.9	50.0
cis-1,2-Dichloroethene	Ave	0.2891	0.2867	0.1000	0.0198	0.0200	-0.8	20.0
Bromochloromethane	Ave	0.1945	0.1677		0.0172	0.0200	-13.8	20.0
Tetrahydrofuran	Lin1		0.0848		0.0323	0.0400	-19.4	20.0
Chloroform	Ave	0.4433	0.4461	0.2000	0.0201	0.0200	0.6	20.0
1,1,1-Trichloroethane	Ave	0.4174	0.3797	0.1000	0.0182	0.0200	-9.0	20.0
Cyclohexane	Ave	0.3819	0.3817	0.1000	0.0200	0.0200	-0.0	20.0
1,1-Dichloropropene	Ave	0.3519	0.3545		0.0201	0.0200	0.7	20.0
Carbon tetrachloride	Ave	0.4023	0.3688	0.1000	0.0183	0.0200	-8.3	20.0
Isobutyl alcohol	Ave	0.0110	0.0101		0.458	0.500	-8.3	20.0
Benzene	Ave	0.9518	0.9589	0.5000	0.0201	0.0200	0.7	20.0
1,2-Dichloroethane	Ave	0.3600	0.3323	0.1000	0.0185	0.0200	-7.7	20.0
n-Heptane	Lin1		0.1493		0.0126	0.0200	-37.1*	20.0
Trichloroethene	Ave	0.3160	0.3037	0.1500	0.0192	0.0200	-3.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCVIS 240-425546/4 Calibration Date: 03/05/2020 18:53

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: U1913207.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	0.4134	0.1000	0.0180	0.0200	-9.9	20.0
1,2-Dichloropropane	Ave	0.2208	0.2008	0.1000	0.0182	0.0200	-9.0	20.0
1,4-Dioxane	Ave	0.0024	0.0037		0.616	0.400	54.0*	50.0
Dibromomethane	Ave	0.2271	0.1875		0.0165	0.0200	-17.4	20.0
Bromodichloromethane	Ave	0.3479	0.3243	0.1500	0.0186	0.0200	-6.8	20.0
2-Chloroethyl vinyl ether	Ave	0.1770	0.1570		0.0355	0.0400	-11.3	20.0
cis-1,3-Dichloropropene	Ave	0.3865	0.3541	0.1500	0.0183	0.0200	-8.4	50.0
4-Methyl-2-pentanone	Ave	0.3203	0.2490	0.0500	0.0311	0.0400	-22.3	50.0
Toluene	Ave	1.352	1.371	0.4000	0.0203	0.0200	1.5	20.0
trans-1,3-Dichloropropene	Ave	0.4818	0.4213	0.1000	0.0175	0.0200	-12.6	20.0
Ethyl methacrylate	Ave	0.4344	0.3919		0.0180	0.0200	-9.8	20.0
1,1,2-Trichloroethane	Ave	0.2842	0.2855	0.1000	0.0201	0.0200	0.5	20.0
1,3-Dichloropropane	Ave	0.4802	0.4766		0.0199	0.0200	-0.7	20.0
Tetrachloroethene	Ave	0.4313	0.3793	0.1500	0.0176	0.0200	-12.1	20.0
2-Hexanone	Ave	0.3149	0.2457	0.0500	0.0312	0.0400	-22.0	50.0
Dibromochloromethane	Ave	0.3583	0.3404		0.0190	0.0200	-5.0	20.0
1,2-Dibromoethane	Ave	0.3346	0.3156		0.0189	0.0200	-5.7	20.0
Chlorobenzene	Ave	0.9253	0.9095	0.3000	0.0197	0.0200	-1.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3336	0.3208		0.0192	0.0200	-3.8	20.0
Ethylbenzene	Ave	0.4836	0.4681		0.0194	0.0200	-3.2	20.0
m-Xylene & p-Xylene	Ave	0.5890	0.5930		0.0201	0.0200	0.7	20.0
o-Xylene	Ave	0.5597	0.5529		0.0198	0.0200	-1.2	20.0
Styrene	Ave	0.9588	0.9480	0.3000	0.0198	0.0200	-1.1	20.0
Bromoform	Ave	0.2933	0.2326	0.1000	0.0159	0.0200	-20.7*	20.0
Isopropylbenzene	Ave	1.503	1.427	0.1000	0.0190	0.0200	-5.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7706	0.8328	0.3000	0.0216	0.0200	8.1	20.0
Bromobenzene	Ave	0.7690	0.7172		0.0187	0.0200	-6.7	20.0
1,2,3-Trichloropropane	Ave	0.2921	0.2989		0.0205	0.0200	2.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2737	0.2396		0.0175	0.0200	-12.4	20.0
n-Propylbenzene	Ave	0.7729	0.8123		0.0210	0.0200	5.1	20.0
2-Chlorotoluene	Ave	0.6541	0.6814		0.0208	0.0200	4.2	20.0
1,3,5-Trimethylbenzene	Ave	2.225	2.266		0.0204	0.0200	1.8	20.0
4-Chlorotoluene	Ave	0.7072	0.7196		0.0203	0.0200	1.7	20.0
tert-Butylbenzene	Ave	2.113	2.046		0.0194	0.0200	-3.2	20.0
1,2,4-Trimethylbenzene	Ave	2.256	2.234		0.0198	0.0200	-1.0	20.0
sec-Butylbenzene	Ave	2.845	2.675		0.0188	0.0200	-6.0	20.0
1,3-Dichlorobenzene	Ave	1.412	1.295	0.6000	0.0183	0.0200	-8.3	20.0
p-Isopropyltoluene	Ave	2.492	2.336		0.0188	0.0200	-6.2	20.0
1,4-Dichlorobenzene	Ave	1.459	1.277	0.5000	0.0175	0.0200	-12.5	20.0
n-Butylbenzene	Ave	2.050	1.741		0.0170	0.0200	-15.0	20.0
1,2-Dichlorobenzene	Ave	1.282	1.195	0.4000	0.0186	0.0200	-6.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCVIS 240-425546/4 Calibration Date: 03/05/2020 18:53

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: U1913207.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	0.2045	0.0500	0.0167	0.0200	-16.5	50.0
1,2,4-Trichlorobenzene	Ave	0.8550	0.4891	0.2000	0.0114	0.0200	-42.8	50.0
Hexachlorobutadiene	Ave	0.4392	0.2001		0.00911	0.0200	-54.4*	50.0
Naphthalene	Ave	2.363	1.800		0.0152	0.0200	-23.8	50.0
1,2,3-Trichlorobenzene	Ave	0.7677	0.4946		0.0129	0.0200	-35.6*	20.0
Dibromofluoromethane (Surr)	Ave	0.2692	0.2585		0.0192	0.0200	-4.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3092	0.2719		0.0176	0.0200	-12.1	20.0
Toluene-d8 (Surr)	Ave	1.199	1.187		0.0198	0.0200	-1.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4513	0.4101		0.0182	0.0200	-9.1	20.0

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab File ID: U1913211.d Lab Sample ID: MB 240-425546/8

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

Instrument ID: A3UX19 Date Analyzed: 03/05/2020 20:24

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 240-425546/5	U1913208.d	03/05/2020 19:16
MSA-SW37A-030320	240-127107-1	U1913214.d	03/05/2020 21:31
MSA-SW37B-030320	240-127107-2	U1913215.d	03/05/2020 21:54
MSA-SW37C-030320	240-127107-3	U1913216.d	03/05/2020 22:16
MSA-SW37D-030320	240-127107-4	U1913217.d	03/05/2020 22:39
MSA-SW38A-030320	240-127107-5	U1913218.d	03/05/2020 23:02
MSA-SW38B-030320	240-127107-6	U1913219.d	03/05/2020 23:24
MSA-SW38C-030320	240-127107-7	U1913220.d	03/05/2020 23:47
MSA-SW38D-030320	240-127107-8	U1913221.d	03/06/2020 00:09
MSA-SW40A-030320	240-127107-9	U1913222.d	03/06/2020 00:31
MSA-SW40B-030320	240-127107-10	U1913223.d	03/06/2020 00:54
MSA-SW40C-030320	240-127107-11	U1913224.d	03/06/2020 01:16
MSA-SW40D-030320	240-127107-12	U1913225.d	03/06/2020 01:39
MSA-SW41A-030320	240-127107-13	U1913226.d	03/06/2020 02:01
MSA-SW41B-030320	240-127107-14	U1913227.d	03/06/2020 02:24
MSA-SW41C-030320	240-127107-15	U1913228.d	03/06/2020 02:46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425546/8

Matrix: Water Lab File ID: U1913211.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 20:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425546/8

Matrix: Water Lab File ID: U1913211.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 20:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425546/8

Matrix: Water Lab File ID: U1913211.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 20:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
460-00-4	4-Bromofluorobenzene (Surr)	88		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	100		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425546/8

Matrix: Water Lab File ID: U1913211.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 20:24

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.: 425546 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 III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U1913208.d

Lab ID: LCS 240-425546/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	19.9	100	77-120	
1,1,1-Trichloroethane	20.0	18.4	92	65-141	
1,1,2,2-Tetrachloroethane	20.0	22.2	111	45-151	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	20.4	102	54-148	
1,1-Dichloroethane	20.0	19.7	99	74-126	
1,1-Dichloroethene	20.0	19.9	99	73-129	
1,1-Dichloropropene	20.0	20.0	100	78-120	
1,2,3-Trichlorobenzene	20.0	14.8	74	42-126	
1,2,3-Trichloropropane	20.0	21.7	109	57-137	
1,2,4-Trichlorobenzene	20.0	12.5	63	47-120	
1,2,4-Trimethylbenzene	20.0	21.1	105	66-129	
1,2-Dibromo-3-Chloropropane	20.0	18.2	91	34-136	
1,2-Dichlorobenzene	20.0	19.2	96	74-120	
1,2-Dichloroethane	20.0	18.6	93	66-129	
1,2-Dichloropropane	20.0	19.2	96	79-127	
1,3-Dichlorobenzene	20.0	19.1	95	74-120	
1,3-Dichloropropane	20.0	19.7	99	74-122	
1,4-Dichlorobenzene	20.0	18.7	94	75-120	
2,2-Dichloropropane	20.0	17.4	87	67-137	
2-Chloroethyl vinyl ether	20.0	17.8	89	29-146	
2-Chlorotoluene	20.0	22.2	111	73-126	
2-Hexanone	40.0	31.4	79	43-142	
Bromobenzene	20.0	19.7	99	77-120	
Bromochloromethane	20.0	17.3	87	70-128	
4-Chlorotoluene	20.0	21.4	107	73-126	
p-Isopropyltoluene	20.0	20.2	101	66-127	
Acetone	40.0	38.1	95	33-155	
Benzene	20.0	20.5	102	77-123	
Bromoform	20.0	16.9	84	47-133	
Bromomethane	20.0	20.6	103	48-144	
Carbon disulfide	20.0	19.4	97	67-127	
Carbon tetrachloride	20.0	18.7	93	61-142	
Chlorobenzene	20.0	20.2	101	80-120	
Chloroethane	20.0	20.0	100	41-147	
Chloroform	20.0	19.9	99	74-127	
Chloromethane	20.0	16.2	81	46-148	
cis-1,2-Dichloroethene	20.0	20.2	101	75-124	
cis-1,3-Dichloropropene	20.0	19.3	96	68-128	
Hexachlorobutadiene	20.0	10.2	51	40-120	
Dibromomethane	20.0	16.9	84	67-121	
Bromodichloromethane	20.0	19.5	97	73-122	

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.: 240-127107-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U1913208.d

Lab ID: LCS 240-425546/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20.0	14.1	71	35-137	
Ethylbenzene	20.0	20.2	101	80-120	
1,2-Dibromoethane	20.0	18.6	93	73-120	
Naphthalene	20.0	16.5	82	28-130	
m-Xylene & p-Xylene	20.0	20.9	105	79-121	
n-Butylbenzene	20.0	18.3	92	54-129	
Isopropylbenzene	20.0	19.8	99	73-123	
n-Propylbenzene	20.0	21.6	108	67-130	
2-Butanone	40.0	36.0	90	41-151	
4-Methyl-2-pentanone	40.0	31.8	79	43-145	
sec-Butylbenzene	20.0	20.3	102	60-131	
Methyl tert-butyl ether	20.0	17.4	87	57-127	
Methylene Chloride	20.0	17.6	88	63-134	
o-Xylene	20.0	20.6	103	75-123	
Styrene	20.0	20.5	103	75-121	
tert-Butylbenzene	20.0	20.4	102	63-126	
Tetrachloroethene	20.0	18.1	90	70-125	
Toluene	20.0	20.8	104	79-122	
trans-1,2-Dichloroethene	20.0	19.4	97	74-130	
trans-1,3-Dichloropropene	20.0	16.7	84	64-120	
Trichloroethene	20.0	19.9	100	71-121	
Trichlorofluoromethane	20.0	17.4	87	52-148	
Vinyl acetate	20.0	17.5	88	44-160	
Vinyl chloride	20.0	16.6	83	61-134	
tert-Butyl alcohol	200	186	93	15-169	
Xylenes, Total	40.0	41.5	104	78-122	
Dibromochloromethane	20.0	19.8	99	75-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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-030320	240-127107-1	102	98	98	89
MSA-SW37B-030320	240-127107-2	103	98	98	91
MSA-SW37C-030320	240-127107-3	103	100	99	90
MSA-SW37D-030320	240-127107-4	103	100	101	92
MSA-SW38A-030320	240-127107-5	102	96	98	90
MSA-SW38B-030320	240-127107-6	103	97	97	90
MSA-SW38C-030320	240-127107-7	103	100	98	91
MSA-SW38D-030320	240-127107-8	103	98	97	90
MSA-SW40A-030320	240-127107-9	107	100	98	89
MSA-SW40B-030320	240-127107-10	102	94	96	89
MSA-SW40C-030320	240-127107-11	107	99	99	92
MSA-SW40D-030320	240-127107-12	104	99	99	90
MSA-SW41A-030320	240-127107-13	107	104	103	96
MSA-SW41B-030320	240-127107-14	105	99	97	88
MSA-SW41C-030320	240-127107-15	100	95	96	86
MSA-SW41D-030320	240-127107-16	118	100	94	108
MSA-SW42A-030320	240-127107-17	118	104	94	108
MSA-SW42B-030320	240-127107-18	117	104	93	108
MSA-SW42C-030320	240-127107-19	120	104	94	109
MSA-SW42D-030320	240-127107-20	117	101	92	107
MSA-SW43A-030320	240-127107-21	113	106	95	108
MSA-SW43B-030320	240-127107-22	116	105	95	108
MSA-SW43C-030320	240-127107-23	113	104	96	108
MSA-SW43D-030320	240-127107-24	116	106	95	108
MSA-SW44A-030320	240-127107-25	113	103	93	105
MSA-SW44B-030320	240-127107-26	123	105	92	105
MSA-SW44C-030320	240-127107-27	121	105	92	106
MSA-SW44D-030320	240-127107-28	120	104	94	105
TB-030320	240-127107-29	121	107	93	106
MSA-SW46A-030320	240-127107-30	121	105	93	108
MSA-SW47A-030320	240-127107-31	114	104	92	105
MSA-SW48A-030320	240-127107-32	114	107	95	107
MSA-SW49A-030320	240-127107-33	116	107	97	107
	MB 240-425546/8	100	96	98	88
	MB 240-425629/8	112	101	93	107

	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.: 240-127107-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	LCS 240-425546/5	97	90	101	93
	LCS 240-425629/5	104	92	97	112

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Sample No.: ICIS 240-421991/13 Date Analyzed: 02/07/2020 18:31

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM26857.D Heated Purge: (Y/N) N

Calibration ID: 55391

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1302082	5.93	886855	8.66	420039	10.93
UPPER LIMIT		2604164	6.43	1773710	9.16	840078	11.43
LOWER LIMIT		651041	5.43	443428	8.16	210020	10.43
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-421991/17		1181441	5.93	813742	8.66	389644	10.93
ICV 240-421991/26		1105970	5.93	773771	8.66	350170	10.93
CCVIS 240-425629/3		1324630	5.93	953888	8.66	478222	10.93

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.: 240-127107-1

SDG No.:

Sample No.: CCVIS 240-425629/3 Date Analyzed: 03/06/2020 10:52

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM27176.D Heated Purge: (Y/N) N

Calibration ID: 55395

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1324630	5.93	953888	8.66	478222	10.93
UPPER LIMIT		2649260	6.43	1907776	9.16	956444	11.43
LOWER LIMIT		662315	5.43	476944	8.16	239111	10.43
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-425629/4		1228981	5.93	931151	8.66	421546	10.93
LCS 240-425629/5		1330626	5.93	964430	8.66	468550	10.93
MB 240-425629/8		1083381	5.94	824336	8.66	396607	10.93
240-127107-16	MSA-SW41D-030320	1015392	5.93	797820	8.66	391294	10.93
240-127107-17	MSA-SW42A-030320	1010782	5.94	790861	8.66	381209	10.93
240-127107-18	MSA-SW42B-030320	972943	5.93	764952	8.66	367130	10.93
240-127107-19	MSA-SW42C-030320	962214	5.93	752730	8.66	362355	10.93
240-127107-20	MSA-SW42D-030320	942318	5.93	747601	8.66	365617	10.93
240-127107-21	MSA-SW43A-030320	1074044	5.93	816888	8.66	392867	10.93
240-127107-22	MSA-SW43B-030320	1016994	5.93	782882	8.66	378841	10.93
240-127107-23	MSA-SW43C-030320	1072724	5.93	795451	8.66	388374	10.93
240-127107-24	MSA-SW43D-030320	978322	5.93	750351	8.66	362273	10.93
240-127107-25	MSA-SW44A-030320	993405	5.93	762015	8.66	365178	10.93
240-127107-26	MSA-SW44B-030320	881282	5.93	701284	8.66	348496	10.93
240-127107-27	MSA-SW44C-030320	905226	5.93	719568	8.66	352589	10.93
240-127107-28	MSA-SW44D-030320	889043	5.93	700117	8.66	341310	10.93
240-127107-29	TB-030320	911512	5.93	717719	8.66	343094	10.93
240-127107-30	MSA-SW46A-030320	910474	5.93	713126	8.66	350982	10.93
240-127107-31	MSA-SW47A-030320	977056	5.93	755160	8.66	362881	10.93
240-127107-32	MSA-SW48A-030320	1022422	5.93	781344	8.66	373021	10.93
240-127107-33	MSA-SW49A-030320	1020429	5.93	771552	8.66	370742	10.93

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.: 240-127107-1

SDG No.:

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 240-425546/4		1203904	5.67	959607	8.50	483337	10.88

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.: 240-127107-1

SDG No.:

Sample No.: CCVIS 240-425546/4 Date Analyzed: 03/05/2020 18:53

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1913207.d Heated Purge: (Y/N) N

Calibration ID: 51687

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1203904	5.67	959607	8.50	483337	10.88
UPPER LIMIT		2407808	6.17	1919214	9.00	966674	11.38
LOWER LIMIT		601952	5.17	479804	8.00	241669	10.38
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-425546/5		1207880	5.67	956803	8.50	470957	10.88
MB 240-425546/8		1160074	5.67	939019	8.50	458174	10.88
240-127107-1	MSA-SW37A-030320	1138630	5.67	920898	8.50	460352	10.90
240-127107-2	MSA-SW37B-030320	1100619	5.67	871108	8.50	440439	10.88
240-127107-3	MSA-SW37C-030320	1095240	5.67	872369	8.50	427480	10.88
240-127107-4	MSA-SW37D-030320	1112935	5.67	878162	8.50	439308	10.88
240-127107-5	MSA-SW38A-030320	1111093	5.67	878233	8.50	429789	10.88
240-127107-6	MSA-SW38B-030320	1095866	5.67	867843	8.50	444909	10.88
240-127107-7	MSA-SW38C-030320	1094095	5.67	872197	8.50	442621	10.88
240-127107-8	MSA-SW38D-030320	1112819	5.67	899845	8.50	454432	10.88
240-127107-9	MSA-SW40A-030320	1090996	5.67	873677	8.50	444487	10.88
240-127107-10	MSA-SW40B-030320	1116985	5.67	896313	8.50	450378	10.88
240-127107-11	MSA-SW40C-030320	1071328	5.67	848781	8.50	424843	10.88
240-127107-12	MSA-SW40D-030320	1072564	5.67	862624	8.50	426568	10.88
240-127107-13	MSA-SW41A-030320	1060763	5.67	845531	8.50	419857	10.88
240-127107-14	MSA-SW41B-030320	1085050	5.67	868233	8.50	432866	10.88
240-127107-15	MSA-SW41C-030320	1092163	5.65	871999	8.50	431993	10.88

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 BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Batch Number: 337917 Batch Start Date: 07/25/18 11:28 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_stk 00077	vmbfb 00020	VMFASA9W 00194
BFB 240-337917/1		8260C		5 mL	5 mL			1 uL	
STDA9 240-337917/8 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-337917/9 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-337917/10 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-337917/11 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-337917/12 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-337917/13 IC		8260C		5 mL	5 mL	2 uL			
ICV 240-337917/14		8260C		5 mL	5 mL	2 uL	2 uL		16 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmra9w 00259					
BFB 240-337917/1		8260C							
STDA9 240-337917/8 IC		8260C		64 uL					
STDA9 240-337917/9 IC		8260C		32 uL					
STDA9 240-337917/10 IC		8260C		16 uL					
STDA9 240-337917/11 IC		8260C		8 uL					
STDA9 240-337917/12 IC		8260C		0.8 uL					
STDA9 240-337917/13 IC		8260C		0.4 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.: 240-127107-1

SDG No.:

Batch Number: 337917 Batch Start Date: 07/25/18 11:28 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmra9w 00259					
ICV 240-337917/14		8260C							

Batch Notes	
pH Indicator ID	HC746949

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.: 240-127107-1

SDG No.:

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.: 240-127107-1

SDG No.:

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.: 240-127107-1

SDG No.:

Batch Number: 421991 Batch Start Date: 02/07/20 15:54 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 00006	VM50SS 00390	vm50ss_stk 00083	vmarolistdw 00332
BFB 240-421991/1		8260C		5 mL	5 mL				
STD8260 240-421991/9 IC		8260C		5 mL	5 mL	2 uL	96 uL		96 uL
STD8260 240-421991/10 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
STD8260 240-421991/11 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-421991/12 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
ICIS 240-421991/13		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-421991/14 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
STD8260 240-421991/15 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-421991/16 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
ICV 240-421991/17		8260C		5 mL	5 mL	2 uL		2 uL	
STDA9 240-421991/20 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-421991/21 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-421991/22 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-421991/23 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-421991/24 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.: 240-127107-1

SDG No.:

Batch Number: 421991 Batch Start Date: 02/07/20 15:54 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 00006	VM50SS 00390	vm50ss_stk 00083	vmarolistdw 00332
STDA9 240-421991/25 IC		8260C		5 mL	5 mL	2 uL			
ICV 240-421991/26		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00024	VMFASA9W 00264	vmfasaw 00315	vmfasgw 00345	vmfaspw 00337	VMRA9W 00332
BFB 240-421991/1		8260C		1 uL					
STD8260 240-421991/9 IC		8260C							
STD8260 240-421991/10 IC		8260C							
STD8260 240-421991/11 IC		8260C							
STD8260 240-421991/12 IC		8260C							
ICIS 240-421991/13		8260C							
STD8260 240-421991/14 IC		8260C							
STD8260 240-421991/15 IC		8260C							
STD8260 240-421991/16 IC		8260C							
ICV 240-421991/17		8260C				16 uL	16 uL	16 uL	
STDA9 240-421991/20 IC		8260C							64 uL
STDA9 240-421991/21 IC		8260C							32 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.: 240-127107-1

SDG No.:

Batch Number: 421991 Batch Start Date: 02/07/20 15:54 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00024	VMFASA9W 00264	vmfasaw 00315	vmfasgw 00345	vmfaspw 00337	VMRA9W 00332
STDA9 240-421991/22 IC		8260C							16 uL
STDA9 240-421991/23 IC		8260C							8 uL
STDA9 240-421991/24 IC		8260C							0.8 uL
STDA9 240-421991/25 IC		8260C							0.4 uL
ICV 240-421991/26		8260C			16 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00326	vmrprimw 00372				
BFB 240-421991/1		8260C							
STD8260 240-421991/9 IC		8260C		96 uL	96 uL				
STD8260 240-421991/10 IC		8260C		64 uL	64 uL				
STD8260 240-421991/11 IC		8260C		48 uL	48 uL				
STD8260 240-421991/12 IC		8260C		32 uL	32 uL				
ICIS 240-421991/13		8260C		16 uL	16 uL				
STD8260 240-421991/14 IC		8260C		8 uL	8 uL				
STD8260 240-421991/15 IC		8260C		0.8 uL	0.8 uL				
STD8260 240-421991/16 IC		8260C		0.4 uL	0.4 uL				
ICV 240-421991/17		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.: 240-127107-1

SDG No.:

Batch Number: 421991 Batch Start Date: 02/07/20 15:54 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00326	vmrprimw 00372				
STDA9 240-421991/20 IC		8260C							
STDA9 240-421991/21 IC		8260C							
STDA9 240-421991/22 IC		8260C							
STDA9 240-421991/23 IC		8260C							
STDA9 240-421991/24 IC		8260C							
STDA9 240-421991/25 IC		8260C							
ICV 240-421991/26		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.: 240-127107-1

SDG No.:

Batch Number: 425546 Batch Start Date: 03/05/20 18:08 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 00006	vm50ss_stk 00082	vmarolistdw 00335
BFB 240-425546/2		8260C		5 mL	5 mL				
CCV 240-425546/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-425546/4		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-425546/5		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-425546/8		8260C		5 mL	5 mL		2 uL	2 uL	
240-127107-B-1	MSA-SW37A-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-2	MSA-SW37B-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-3	MSA-SW37C-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-4	MSA-SW37D-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-5	MSA-SW38A-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-6	MSA-SW38B-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-7	MSA-SW38C-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-8	MSA-SW38D-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-9	MSA-SW40A-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-10	MSA-SW40B-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-11	MSA-SW40C-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-12	MSA-SW40D-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-13	MSA-SW41A-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-14	MSA-SW41B-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-15	MSA-SW41C-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00024	vmfasaw 00319	vmfasgw 00349	vmfaspw 00341	vmra9w 00335	vmrgas 00329
BFB 240-425546/2		8260C		1 uL					
CCV 240-425546/3		8260C						16 uL	
CCVIS 240-425546/4		8260C							16 uL
LCS 240-425546/5		8260C			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.: 240-127107-1

SDG No.:

Batch Number: 425546 Batch Start Date: 03/05/20 18:08 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00024	vmfasaw 00319	vmfasgw 00349	vmfaspw 00341	vmra9w 00335	vmrgas 00329
MB 240-425546/8		8260C							
240-127107-B-1	MSA-SW37A-030320	8260C	T						
240-127107-B-2	MSA-SW37B-030320	8260C	T						
240-127107-B-3	MSA-SW37C-030320	8260C	T						
240-127107-B-4	MSA-SW37D-030320	8260C	T						
240-127107-B-5	MSA-SW38A-030320	8260C	T						
240-127107-B-6	MSA-SW38B-030320	8260C	T						
240-127107-B-7	MSA-SW38C-030320	8260C	T						
240-127107-B-8	MSA-SW38D-030320	8260C	T						
240-127107-B-9	MSA-SW40A-030320	8260C	T						
240-127107-B-10	MSA-SW40B-030320	8260C	T						
240-127107-B-11	MSA-SW40C-030320	8260C	T						
240-127107-B-12	MSA-SW40D-030320	8260C	T						
240-127107-B-13	MSA-SW41A-030320	8260C	T						
240-127107-B-14	MSA-SW41B-030320	8260C	T						
240-127107-B-15	MSA-SW41C-030320	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00376					
BFB 240-425546/2		8260C							
CCV 240-425546/3		8260C							
CCVIS 240-425546/4		8260C		16 uL					
LCS 240-425546/5		8260C							
MB 240-425546/8		8260C							
240-127107-B-1	MSA-SW37A-030320	8260C	T						
240-127107-B-2	MSA-SW37B-030320	8260C	T						
240-127107-B-3	MSA-SW37C-030320	8260C	T						
240-127107-B-4	MSA-SW37D-030320	8260C	T						
240-127107-B-5	MSA-SW38A-030320	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.: 240-127107-1

SDG No.:

Batch Number: 425546 Batch Start Date: 03/05/20 18:08 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00376					
240-127107-B-6	MSA-SW38B-030320	8260C	T						
240-127107-B-7	MSA-SW38C-030320	8260C	T						
240-127107-B-8	MSA-SW38D-030320	8260C	T						
240-127107-B-9	MSA-SW40A-030320	8260C	T						
240-127107-B-10	MSA-SW40B-030320	8260C	T						
240-127107-B-11	MSA-SW40C-030320	8260C	T						
240-127107-B-12	MSA-SW40D-030320	8260C	T						
240-127107-B-13	MSA-SW41A-030320	8260C	T						
240-127107-B-14	MSA-SW41B-030320	8260C	T						
240-127107-B-15	MSA-SW41C-030320	8260C	T						

Batch Notes	
pH Indicator ID	HC861525

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.: 240-127107-1

SDG No.:

Batch Number: 425629 Batch Start Date: 03/06/20 10:27 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 00004	vm50is_stk_a 00006	vm50ss_stk 00083
BFB 240-425629/1		8260C		5 mL	5 mL				
CCVIS 240-425629/3		8260C		5 mL	5 mL			2 uL	2 uL
CCV 240-425629/4		8260C		5 mL	5 mL		1 uL		
LCS 240-425629/5		8260C		5 mL	5 mL			2 uL	2 uL
MB 240-425629/8		8260C		5 mL	5 mL			2 uL	2 uL
240-127107-B-16	MSA-SW41D-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-17	MSA-SW42A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-18	MSA-SW42B-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-19	MSA-SW42C-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-20	MSA-SW42D-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-21	MSA-SW43A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-22	MSA-SW43B-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-23	MSA-SW43C-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-24	MSA-SW43D-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-25	MSA-SW44A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-26	MSA-SW44B-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-27	MSA-SW44C-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-28	MSA-SW44D-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-29	TB-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-30	MSA-SW46A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-31	MSA-SW47A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-32	MSA-SW48A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-33	MSA-SW49A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmarolistdw 00335	vmbfb 00024	vmfasaw 00319	vmfasgw 00349	vmfaspw 00341	vmra9w 00335
BFB 240-425629/1		8260C			1 uL				
CCVIS 240-425629/3		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.: 240-127107-1

SDG No.:

Batch Number: 425629 Batch Start Date: 03/06/20 10:27 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmarolistdw 00335	vmbfb 00024	vmfasaw 00319	vmfasgw 00349	vmfaspw 00341	vmra9w 00335
CCV 240-425629/4		8260C							16 uL
LCS 240-425629/5		8260C				16 uL	16 uL	16 uL	
MB 240-425629/8		8260C							
240-127107-B-16	MSA-SW41D-030320	8260C	T						
240-127107-B-17	MSA-SW42A-030320	8260C	T						
240-127107-B-18	MSA-SW42B-030320	8260C	T						
240-127107-B-19	MSA-SW42C-030320	8260C	T						
240-127107-B-20	MSA-SW42D-030320	8260C	T						
240-127107-B-21	MSA-SW43A-030320	8260C	T						
240-127107-B-22	MSA-SW43B-030320	8260C	T						
240-127107-B-23	MSA-SW43C-030320	8260C	T						
240-127107-B-24	MSA-SW43D-030320	8260C	T						
240-127107-B-25	MSA-SW44A-030320	8260C	T						
240-127107-B-26	MSA-SW44B-030320	8260C	T						
240-127107-B-27	MSA-SW44C-030320	8260C	T						
240-127107-B-28	MSA-SW44D-030320	8260C	T						
240-127107-B-29	TB-030320	8260C	T						
240-127107-B-30	MSA-SW46A-030320	8260C	T						
240-127107-B-31	MSA-SW47A-030320	8260C	T						
240-127107-B-32	MSA-SW48A-030320	8260C	T						
240-127107-B-33	MSA-SW49A-030320	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00329	vmrprimw 00376				
BFB 240-425629/1		8260C							
CCVIS 240-425629/3		8260C		16 uL	16 uL				
CCV 240-425629/4		8260C							
LCS 240-425629/5		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.: 240-127107-1

SDG No.:

Batch Number: 425629 Batch Start Date: 03/06/20 10:27 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00329	vmrprimw 00376				
MB 240-425629/8		8260C							
240-127107-B-16	MSA-SW41D-030320	8260C	T						
240-127107-B-17	MSA-SW42A-030320	8260C	T						
240-127107-B-18	MSA-SW42B-030320	8260C	T						
240-127107-B-19	MSA-SW42C-030320	8260C	T						
240-127107-B-20	MSA-SW42D-030320	8260C	T						
240-127107-B-21	MSA-SW43A-030320	8260C	T						
240-127107-B-22	MSA-SW43B-030320	8260C	T						
240-127107-B-23	MSA-SW43C-030320	8260C	T						
240-127107-B-24	MSA-SW43D-030320	8260C	T						
240-127107-B-25	MSA-SW44A-030320	8260C	T						
240-127107-B-26	MSA-SW44B-030320	8260C	T						
240-127107-B-27	MSA-SW44C-030320	8260C	T						
240-127107-B-28	MSA-SW44D-030320	8260C	T						
240-127107-B-29	TB-030320	8260C	T						
240-127107-B-30	MSA-SW46A-030320	8260C	T						
240-127107-B-31	MSA-SW47A-030320	8260C	T						
240-127107-B-32	MSA-SW48A-030320	8260C	T						
240-127107-B-33	MSA-SW49A-030320	8260C	T						

Batch Notes	
pH Indicator ID	HC861525

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.

VOC CALCULATION	SAMPLE MSA-SW42A-030320		
TARGET ANALYTE	VINYL CHLORIDE		
ANALYTE RESPONSE	22373		
INTERNAL STANDARD	fluorobenzene		
I.S. RESPONSE	1010782		
I.S. CONCENTRATION	20	µg/l	
ANALYTE CAL. RF	0.4363		
DILUTION FACTOR (DF)	1		
INITIAL SAMPLE VOLUME - V1	5	ml	
FINAL SAMPLE VOLUME - V2	5	ml	
ON COLUMN RESPONSE	1.014638894		

$$\frac{\text{(ANALYTE RESPONSE) x (I.S. CONCENTRATION) X DF x V2}}{\text{(I.S. RESPONSE) x (CAL. R.F.) x V1}} = \mathbf{1.01}\ \mathbf{\mu g/l}$$

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Matrix: Water Lab File ID: UXM27187.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:25

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.38	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0		0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27187.D
Lims ID: 240-127107-B-17
Client ID: MSA-SW42A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 15:25:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-014
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 06-Mar-2020 16:45:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.940	5.928	0.012	100	1010782	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	790861	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	381209	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	248693	23.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	284323	20.7	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	971844	18.7	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	88	388383	21.7	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.074	2.074	0.000	96	22373	1.01	
13 Bromomethane	94	2.430	2.418	0.012	80	2154	0.1510	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58	3.355	3.355	0.000	98	2651	0.9312	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96	4.932	4.932	0.000	81	5516	0.3842	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-421991/16	UXM26860.D
Level 2	STD8260 240-421991/15	UXM26859.D
Level 3	STD8260 240-421991/14	UXM26858.D
Level 4	ICIS 240-421991/13	UXM26857.D
Level 5	STD8260 240-421991/12	UXM26856.D
Level 6	STD8260 240-421991/11	UXM26855.D
Level 7	STD8260 240-421991/10	UXM26854.D
Level 8	STD8260 240-421991/9	UXM26853.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2278 0.3144	0.2486 0.2938	0.2998 0.2926	0.2910	0.3292	Ave		0.2872			0.1000	11.6		20.0			
Chloromethane	0.4724 0.4241	0.4517 0.4090	0.4337 0.3990	0.4094	0.4479	Ave		0.4309			0.1000	5.9		20.0			
Vinyl chloride	0.4090 0.4434	0.4087 0.4370	0.4581 0.4371	0.4263	0.4708	Ave		0.4363			0.1000	5.0		20.0			
Butadiene	0.3304 0.3596	0.3224 0.3517	0.3678 0.3506	0.3515	0.3627	Ave		0.3496				4.5		20.0			
Bromomethane	0.3068 +++++	0.2872 +++++	0.2674 +++++	0.2836	0.2660	Ave		0.2822			0.0500	5.9		20.0			
Chloroethane	0.1881 0.2598	0.1921 0.2664	0.2186 0.2453	0.2193	0.2410	Ave		0.2288			0.0500	12.8		20.0			
Dichlorofluoromethane	0.4183 0.4697	0.4419 0.4654	0.4565 0.4677	0.4408	0.4912	Ave		0.4564				4.9		20.0			
Trichlorofluoromethane	0.3059 0.3895	0.3051 0.3790	0.3626 0.3875	0.3542	0.4003	Ave		0.3605			0.1000	10.3		20.0			
Ethyl ether	0.2017 0.2052	0.1907 0.2007	0.2073 0.1978	0.1955	0.2094	Ave		0.2010				3.1		20.0			
Acrolein	0.0303 0.0429	0.0343 0.0441	0.0426 0.0404	0.0402	0.0417	Ave		0.0395				12.1		20.0			
1,1-Dichloroethene	0.1855 0.2356	0.1953 0.2343	0.2135 0.2438	0.2162	0.2391	Ave		0.2204			0.1000	9.8		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1097 0.1618	0.1194 0.1534	0.1414 0.1668	0.1476	0.1612	Ave		0.1452			0.0500	14.3		20.0			
Acetone	+++++ 0.0206	0.0340 0.0208	0.0234 0.0188	0.0208	0.0205	Lin1	0.0341	0.0198			0.0100	8.5			0.9970		0.9900
Iodomethane	0.2598 0.2567	0.2412 0.2623	0.2270 0.2633	0.2361	0.2606	Ave		0.2509				5.6		20.0			

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

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Job Number: 240-127107-1

Job Description: MSA Surface Water Sampling

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage

Approved for release.
John McFadden
Project Manager I
3/10/2020 11:58 AM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
(330)497-9396
john.mcfadden@testamericainc.com
03/10/2020

cc: Samantha Brenner
Kelly Carper

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

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.

Table of Contents

Cover Title Page 1

Data Summaries 4

Definitions 4

Case Narrative 5

Detection Summary 7

Client Sample Results 10

Default Detection Limits 69

Surrogate Summary 71

QC Sample Results 72

QC Association 79

Chronicle 80

Certification Summary 85

Method Summary 86

Sample Summary 87

Detection Limit Exceptions 88

Manual Integration Summary 89

Reagent Traceability 95

COAs 138

Organic Sample Data 280

GC/MS VOA 280

Method 8260C 280

Method 8260C QC Summary 281

Method 8260C Sample Data 301

Standards Data 651

Method 8260C ICAL Data 651

Method 8260C CCAL Data 868

Table of Contents

Raw QC Data 920

Method 8260C Tune Data 920

Method 8260C Blank Data 944

Method 8260C LCS/LCSD Data 966

Method 8260C MS/MSD Data 982

Method 8260C Run Logs 990

Method 8260C Prep Data 996

Shipping and Receiving Documents 1011

Client Chain of Custody 1012

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

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
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.
T	Result is a tentatively identified compound (TIC) and an estimated value.
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
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MSA Surface Water Sampling

Report Number: 240-127107-1

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

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

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

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

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

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

RECEIPT

The samples were received on 3/4/2020 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MSA-SW37A-030320 (240-127107-1), MSA-SW37B-030320 (240-127107-2), MSA-SW37C-030320 (240-127107-3), MSA-SW37D-030320 (240-127107-4), MSA-SW38A-030320 (240-127107-5), MSA-SW38B-030320 (240-127107-6), MSA-SW38C-030320 (240-127107-7), MSA-SW38D-030320 (240-127107-8), MSA-SW40A-030320 (240-127107-9), MSA-SW40B-030320 (240-127107-10), MSA-SW40C-030320 (240-127107-11), MSA-SW40D-030320 (240-127107-12), MSA-SW41A-030320 (240-127107-13), MSA-SW41B-030320 (240-127107-14), MSA-SW41C-030320 (240-127107-15), MSA-SW41D-030320 (240-127107-16), MSA-SW42A-030320 (240-127107-17), MSA-SW42B-030320 (240-127107-18), MSA-SW42C-030320 (240-127107-19), MSA-SW42D-030320 (240-127107-20), MSA-SW43A-030320 (240-127107-21), MSA-SW43B-030320 (240-127107-22), MSA-SW43C-030320 (240-127107-23), MSA-SW43D-030320 (240-127107-24), MSA-SW44A-030320 (240-127107-25), MSA-SW44B-030320 (240-127107-26), MSA-SW44C-030320 (240-127107-27), MSA-SW44D-030320 (240-127107-28), TB-030320 (240-127107-29), MSA-SW46A-030320 (240-127107-30), MSA-SW47A-030320 (240-127107-31), MSA-SW48A-030320 (240-127107-32) and MSA-SW49A-030320 (240-127107-33) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 03/05/2020 and 03/06/2020.

cis-1,2-Dichloroethene failed the recovery criteria high for the MSD of sample 240-127080-3 in batch 240-425629.

Refer to the QC report for details.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-425546 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: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 240-425546.

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-030320 (240-127107-1),

MSA-SW37B-030320 (240-127107-2), MSA-SW37C-030320 (240-127107-3), MSA-SW37D-030320 (240-127107-4), MSA-SW38A-030320 (240-127107-5), MSA-SW38B-030320 (240-127107-6), MSA-SW38C-030320 (240-127107-7), MSA-SW38D-030320 (240-127107-8), MSA-SW40A-030320 (240-127107-9), MSA-SW40B-030320 (240-127107-10), MSA-SW40C-030320 (240-127107-11), MSA-SW40D-030320 (240-127107-12), MSA-SW41A-030320 (240-127107-13), MSA-SW41B-030320 (240-127107-14) and MSA-SW41C-030320 (240-127107-15). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 240-425629 was outside the method criteria for the following analyte(s): 2-Methyl-2-propanol, Bromomethane, 1,1,2-Trichloro-1,2,2-trifluoromethane. 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-SW41D-030320 (240-127107-16), MSA-SW42A-030320 (240-127107-17), MSA-SW42B-030320 (240-127107-18), MSA-SW42C-030320 (240-127107-19), MSA-SW42D-030320 (240-127107-20), MSA-SW43A-030320 (240-127107-21), MSA-SW43B-030320 (240-127107-22), MSA-SW43C-030320 (240-127107-23), MSA-SW43D-030320 (240-127107-24), MSA-SW44A-030320 (240-127107-25), MSA-SW44B-030320 (240-127107-26), MSA-SW44C-030320 (240-127107-27), MSA-SW44D-030320 (240-127107-28), TB-030320 (240-127107-29), MSA-SW46A-030320 (240-127107-30), MSA-SW47A-030320 (240-127107-31), MSA-SW48A-030320 (240-127107-32), MSA-SW49A-030320 (240-127107-33) and (CCVIS 240-425629/3)

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-SW41D-030320 (240-127107-16), MSA-SW42A-030320 (240-127107-17), MSA-SW42B-030320 (240-127107-18), MSA-SW42C-030320 (240-127107-19), MSA-SW42D-030320 (240-127107-20), MSA-SW43A-030320 (240-127107-21), MSA-SW43B-030320 (240-127107-22), MSA-SW43C-030320 (240-127107-23), MSA-SW43D-030320 (240-127107-24), MSA-SW44A-030320 (240-127107-25), MSA-SW44B-030320 (240-127107-26), MSA-SW44C-030320 (240-127107-27), MSA-SW44D-030320 (240-127107-28), TB-030320 (240-127107-29), MSA-SW46A-030320 (240-127107-30), MSA-SW47A-030320 (240-127107-31), MSA-SW48A-030320 (240-127107-32) and MSA-SW49A-030320 (240-127107-33). The requested target analyte list includes 2-Chloroethyl vinyl ether, an acid-labile compound that degrades in an acidic medium.

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

Detection Summary

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

No Detections.

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

No Detections.

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

No Detections.

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

No Detections.

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

No Detections.

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

No Detections.

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

No Detections.

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

No Detections.

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.24	J	0.50	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.18	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.21	J	0.50	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

No Detections.

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

No Detections.

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

No Detections.

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

No Detections.

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.38	J	1.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	1.0		0.50	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.28	J	1.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	0.64		0.50	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.22	J	1.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	0.50		0.50	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.26	J	0.50	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

No Detections.

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

No Detections.

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

No Detections.

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

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-SW44A-030320 Lab Sample ID: 240-127107-25

No Detections.

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

No Detections.

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

No Detections.

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

No Detections.

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

No Detections.

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.22	J	0.50	0.20	ug/L	1		8260C	Total/NA

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

No Detections.

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

Date Collected: 03/03/20 09:52 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/05/20 21:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/05/20 21:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/05/20 21:31	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/05/20 21:31	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/05/20 21:31	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 21:31	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/05/20 21:31	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/05/20 21:31	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/05/20 21:31	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/05/20 21:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/05/20 21:31	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/05/20 21:31	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/05/20 21:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 21:31	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/05/20 21:31	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/05/20 21:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 21:31	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/05/20 21:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/05/20 21:31	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/05/20 21:31	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/05/20 21:31	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/05/20 21:31	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/05/20 21:31	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/05/20 21:31	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/05/20 21:31	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/05/20 21:31	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/05/20 21:31	1
Acetone	5.0	U	5.0	5.4	ug/L			03/05/20 21:31	1
Benzene	1.0	U	1.0	0.13	ug/L			03/05/20 21:31	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/05/20 21:31	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/05/20 21:31	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/05/20 21:31	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/05/20 21:31	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/05/20 21:31	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/05/20 21:31	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/05/20 21:31	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/05/20 21:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/05/20 21:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/05/20 21:31	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/05/20 21:31	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/05/20 21:31	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/05/20 21:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/05/20 21:31	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/05/20 21:31	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/05/20 21:31	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/05/20 21:31	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/05/20 21:31	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/05/20 21:31	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 21:31	1

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

Date Collected: 03/03/20 09:52 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/05/20 21:31	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/05/20 21:31	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/05/20 21:31	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/05/20 21:31	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/05/20 21:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/05/20 21:31	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/05/20 21:31	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/05/20 21:31	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/05/20 21:31	1
Styrene	1.0	U	1.0	0.10	ug/L			03/05/20 21:31	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/05/20 21:31	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 21:31	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/05/20 21:31	1
Toluene	1.0	U	1.0	0.14	ug/L			03/05/20 21:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 21:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/05/20 21:31	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/05/20 21:31	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/05/20 21:31	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/05/20 21:31	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/05/20 21:31	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/05/20 21:31	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/05/20 21:31	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/05/20 21:31	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/05/20 21:31*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/05/20 21:31*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 130*		*03/05/20 21:31*	*1*
4-Bromofluorobenzene (Surr)	*89*		*47 - 134*		*03/05/20 21:31*	*1*
Toluene-d8 (Surr)	*98*		*69 - 122*		*03/05/20 21:31*	*1*
Dibromofluoromethane (Surr)	*102*		*78 - 129*		*03/05/20 21:31*	*1*

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

Date Collected: 03/03/20 09:55 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/05/20 21:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/05/20 21:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/05/20 21:54	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/05/20 21:54	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/05/20 21:54	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 21:54	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/05/20 21:54	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/05/20 21:54	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/05/20 21:54	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/05/20 21:54	1

Client Sample ID: MSA-SW37B-030320 **Lab Sample ID: 240-127107-2**
Date Collected: 03/03/20 09:55 **Matrix: Water**
Date Received: 03/04/20 09:30

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			03/05/20 21:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/05/20 21:54	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/05/20 21:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 21:54	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/05/20 21:54	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/05/20 21:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 21:54	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/05/20 21:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/05/20 21:54	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/05/20 21:54	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/05/20 21:54	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/05/20 21:54	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/05/20 21:54	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/05/20 21:54	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/05/20 21:54	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/05/20 21:54	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/05/20 21:54	1
Acetone	5.0	U	5.0	5.4	ug/L			03/05/20 21:54	1
Benzene	1.0	U	1.0	0.13	ug/L			03/05/20 21:54	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/05/20 21:54	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/05/20 21:54	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/05/20 21:54	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/05/20 21:54	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/05/20 21:54	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/05/20 21:54	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/05/20 21:54	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/05/20 21:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/05/20 21:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/05/20 21:54	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/05/20 21:54	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/05/20 21:54	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/05/20 21:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/05/20 21:54	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/05/20 21:54	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/05/20 21:54	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/05/20 21:54	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/05/20 21:54	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/05/20 21:54	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 21:54	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/05/20 21:54	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/05/20 21:54	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/05/20 21:54	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/05/20 21:54	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/05/20 21:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/05/20 21:54	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/05/20 21:54	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/05/20 21:54	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/05/20 21:54	1
Styrene	1.0	U	1.0	0.10	ug/L			03/05/20 21:54	1

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

Date Collected: 03/03/20 09:55 **Matrix: Water**
Date Received: 03/04/20 09:30

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			03/05/20 21:54	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 21:54	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/05/20 21:54	1
Toluene	1.0	U	1.0	0.14	ug/L			03/05/20 21:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 21:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/05/20 21:54	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/05/20 21:54	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/05/20 21:54	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/05/20 21:54	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/05/20 21:54	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/05/20 21:54	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/05/20 21:54	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/05/20 21:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/05/20 21:54*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/05/20 21:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 130*		*03/05/20 21:54*	*1*
4-Bromofluorobenzene (Surr)	*91*		*47 - 134*		*03/05/20 21:54*	*1*
Toluene-d8 (Surr)	*98*		*69 - 122*		*03/05/20 21:54*	*1*
Dibromofluoromethane (Surr)	*103*		*78 - 129*		*03/05/20 21:54*	*1*

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Date Collected: 03/03/20 09:57 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/05/20 22:16	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/05/20 22:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/05/20 22:16	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/05/20 22:16	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/05/20 22:16	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 22:16	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/05/20 22:16	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/05/20 22:16	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/05/20 22:16	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/05/20 22:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/05/20 22:16	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/05/20 22:16	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/05/20 22:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 22:16	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/05/20 22:16	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/05/20 22:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 22:16	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/05/20 22:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/05/20 22:16	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/05/20 22:16	1

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Date Collected: 03/03/20 09:57 **Matrix: Water**
Date Received: 03/04/20 09:30

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			03/05/20 22:16	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/05/20 22:16	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/05/20 22:16	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/05/20 22:16	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/05/20 22:16	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/05/20 22:16	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/05/20 22:16	1
Acetone	5.0	U	5.0	5.4	ug/L			03/05/20 22:16	1
Benzene	1.0	U	1.0	0.13	ug/L			03/05/20 22:16	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/05/20 22:16	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/05/20 22:16	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/05/20 22:16	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/05/20 22:16	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/05/20 22:16	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/05/20 22:16	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/05/20 22:16	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/05/20 22:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/05/20 22:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/05/20 22:16	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/05/20 22:16	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/05/20 22:16	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/05/20 22:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/05/20 22:16	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/05/20 22:16	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/05/20 22:16	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/05/20 22:16	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/05/20 22:16	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/05/20 22:16	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 22:16	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/05/20 22:16	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/05/20 22:16	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/05/20 22:16	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/05/20 22:16	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/05/20 22:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/05/20 22:16	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/05/20 22:16	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/05/20 22:16	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/05/20 22:16	1
Styrene	1.0	U	1.0	0.10	ug/L			03/05/20 22:16	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/05/20 22:16	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 22:16	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/05/20 22:16	1
Toluene	1.0	U	1.0	0.14	ug/L			03/05/20 22:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 22:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/05/20 22:16	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/05/20 22:16	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/05/20 22:16	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/05/20 22:16	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/05/20 22:16	1

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Date Collected: 03/03/20 09:57 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/05/20 22:16	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/05/20 22:16	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/05/20 22:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/05/20 22:16*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/05/20 22:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 130*		*03/05/20 22:16*	*1*
4-Bromofluorobenzene (Surr)	*90*		*47 - 134*		*03/05/20 22:16*	*1*
Toluene-d8 (Surr)	*99*		*69 - 122*		*03/05/20 22:16*	*1*
Dibromofluoromethane (Surr)	*103*		*78 - 129*		*03/05/20 22:16*	*1*

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Date Collected: 03/03/20 10:00 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/05/20 22:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/05/20 22:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/05/20 22:39	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/05/20 22:39	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/05/20 22:39	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 22:39	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/05/20 22:39	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/05/20 22:39	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/05/20 22:39	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/05/20 22:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/05/20 22:39	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/05/20 22:39	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/05/20 22:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 22:39	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/05/20 22:39	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/05/20 22:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 22:39	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/05/20 22:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/05/20 22:39	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/05/20 22:39	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/05/20 22:39	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/05/20 22:39	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/05/20 22:39	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/05/20 22:39	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/05/20 22:39	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/05/20 22:39	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/05/20 22:39	1
Acetone	5.0	U	5.0	5.4	ug/L			03/05/20 22:39	1
Benzene	1.0	U	1.0	0.13	ug/L			03/05/20 22:39	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/05/20 22:39	1

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Date Collected: 03/03/20 10:00 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	1.0	U	1.0	0.42	ug/L			03/05/20 22:39	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/05/20 22:39	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/05/20 22:39	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/05/20 22:39	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/05/20 22:39	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/05/20 22:39	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/05/20 22:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/05/20 22:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/05/20 22:39	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/05/20 22:39	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/05/20 22:39	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/05/20 22:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/05/20 22:39	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/05/20 22:39	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/05/20 22:39	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/05/20 22:39	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/05/20 22:39	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/05/20 22:39	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 22:39	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/05/20 22:39	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/05/20 22:39	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/05/20 22:39	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/05/20 22:39	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/05/20 22:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/05/20 22:39	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/05/20 22:39	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/05/20 22:39	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/05/20 22:39	1
Styrene	1.0	U	1.0	0.10	ug/L			03/05/20 22:39	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/05/20 22:39	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 22:39	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/05/20 22:39	1
Toluene	1.0	U	1.0	0.14	ug/L			03/05/20 22:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 22:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/05/20 22:39	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/05/20 22:39	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/05/20 22:39	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/05/20 22:39	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/05/20 22:39	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/05/20 22:39	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/05/20 22:39	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/05/20 22:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/05/20 22:39*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/05/20 22:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 130*		*03/05/20 22:39*	*1*
4-Bromofluorobenzene (Surr)	*92*		*47 - 134*		*03/05/20 22:39*	*1*

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Date Collected: 03/03/20 10:00 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*69 - 122*		*03/05/20 22:39*	*1*
Dibromofluoromethane (Surr)	*103*		*78 - 129*		*03/05/20 22:39*	*1*

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

Date Collected: 03/03/20 09:03 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/05/20 23:02	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/05/20 23:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/05/20 23:02	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/05/20 23:02	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/05/20 23:02	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 23:02	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/05/20 23:02	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/05/20 23:02	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/05/20 23:02	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/05/20 23:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/05/20 23:02	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/05/20 23:02	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/05/20 23:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 23:02	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/05/20 23:02	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/05/20 23:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 23:02	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/05/20 23:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/05/20 23:02	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/05/20 23:02	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/05/20 23:02	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/05/20 23:02	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/05/20 23:02	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/05/20 23:02	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/05/20 23:02	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/05/20 23:02	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/05/20 23:02	1
Acetone	5.0	U	5.0	5.4	ug/L			03/05/20 23:02	1
Benzene	1.0	U	1.0	0.13	ug/L			03/05/20 23:02	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/05/20 23:02	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/05/20 23:02	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/05/20 23:02	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/05/20 23:02	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/05/20 23:02	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/05/20 23:02	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/05/20 23:02	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/05/20 23:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/05/20 23:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/05/20 23:02	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/05/20 23:02	1

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

Date Collected: 03/03/20 09:03 **Matrix: Water**
Date Received: 03/04/20 09:30

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			03/05/20 23:02	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/05/20 23:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/05/20 23:02	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/05/20 23:02	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/05/20 23:02	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/05/20 23:02	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/05/20 23:02	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/05/20 23:02	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 23:02	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/05/20 23:02	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/05/20 23:02	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/05/20 23:02	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/05/20 23:02	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/05/20 23:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/05/20 23:02	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/05/20 23:02	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/05/20 23:02	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/05/20 23:02	1
Styrene	1.0	U	1.0	0.10	ug/L			03/05/20 23:02	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/05/20 23:02	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 23:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/05/20 23:02	1
Toluene	1.0	U	1.0	0.14	ug/L			03/05/20 23:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 23:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/05/20 23:02	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/05/20 23:02	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/05/20 23:02	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/05/20 23:02	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/05/20 23:02	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/05/20 23:02	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/05/20 23:02	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/05/20 23:02	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/05/20 23:02*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/05/20 23:02*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 130*		*03/05/20 23:02*	*1*
4-Bromofluorobenzene (Surr)	*90*		*47 - 134*		*03/05/20 23:02*	*1*
Toluene-d8 (Surr)	*98*		*69 - 122*		*03/05/20 23:02*	*1*
Dibromofluoromethane (Surr)	*102*		*78 - 129*		*03/05/20 23:02*	*1*

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Date Collected: 03/03/20 09:05 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/05/20 23:24	1

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Date Collected: 03/03/20 09:05 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/05/20 23:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/05/20 23:24	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/05/20 23:24	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/05/20 23:24	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 23:24	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/05/20 23:24	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/05/20 23:24	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/05/20 23:24	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/05/20 23:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/05/20 23:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/05/20 23:24	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/05/20 23:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 23:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/05/20 23:24	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/05/20 23:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 23:24	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/05/20 23:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/05/20 23:24	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/05/20 23:24	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/05/20 23:24	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/05/20 23:24	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/05/20 23:24	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/05/20 23:24	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/05/20 23:24	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/05/20 23:24	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/05/20 23:24	1
Acetone	5.0	U	5.0	5.4	ug/L			03/05/20 23:24	1
Benzene	1.0	U	1.0	0.13	ug/L			03/05/20 23:24	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/05/20 23:24	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/05/20 23:24	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/05/20 23:24	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/05/20 23:24	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/05/20 23:24	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/05/20 23:24	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/05/20 23:24	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/05/20 23:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/05/20 23:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/05/20 23:24	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/05/20 23:24	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/05/20 23:24	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/05/20 23:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/05/20 23:24	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/05/20 23:24	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/05/20 23:24	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/05/20 23:24	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/05/20 23:24	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/05/20 23:24	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 23:24	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/05/20 23:24	1

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Date Collected: 03/03/20 09:05 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/05/20 23:24	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/05/20 23:24	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/05/20 23:24	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/05/20 23:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/05/20 23:24	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/05/20 23:24	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/05/20 23:24	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/05/20 23:24	1
Styrene	1.0	U	1.0	0.10	ug/L			03/05/20 23:24	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/05/20 23:24	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 23:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/05/20 23:24	1
Toluene	1.0	U	1.0	0.14	ug/L			03/05/20 23:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 23:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/05/20 23:24	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/05/20 23:24	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/05/20 23:24	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/05/20 23:24	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/05/20 23:24	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/05/20 23:24	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/05/20 23:24	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/05/20 23:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/05/20 23:24*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/05/20 23:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 130*		*03/05/20 23:24*	*1*
4-Bromofluorobenzene (Surr)	*90*		*47 - 134*		*03/05/20 23:24*	*1*
Toluene-d8 (Surr)	*97*		*69 - 122*		*03/05/20 23:24*	*1*
Dibromofluoromethane (Surr)	*103*		*78 - 129*		*03/05/20 23:24*	*1*

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Date Collected: 03/03/20 09:09 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/05/20 23:47	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/05/20 23:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/05/20 23:47	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/05/20 23:47	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/05/20 23:47	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 23:47	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/05/20 23:47	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/05/20 23:47	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/05/20 23:47	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/05/20 23:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/05/20 23:47	1

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Date Collected: 03/03/20 09:09 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/05/20 23:47	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/05/20 23:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 23:47	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/05/20 23:47	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/05/20 23:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 23:47	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/05/20 23:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/05/20 23:47	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/05/20 23:47	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/05/20 23:47	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/05/20 23:47	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/05/20 23:47	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/05/20 23:47	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/05/20 23:47	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/05/20 23:47	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/05/20 23:47	1
Acetone	5.0	U	5.0	5.4	ug/L			03/05/20 23:47	1
Benzene	1.0	U	1.0	0.13	ug/L			03/05/20 23:47	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/05/20 23:47	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/05/20 23:47	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/05/20 23:47	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/05/20 23:47	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/05/20 23:47	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/05/20 23:47	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/05/20 23:47	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/05/20 23:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/05/20 23:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/05/20 23:47	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/05/20 23:47	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/05/20 23:47	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/05/20 23:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/05/20 23:47	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/05/20 23:47	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/05/20 23:47	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/05/20 23:47	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/05/20 23:47	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/05/20 23:47	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 23:47	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/05/20 23:47	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/05/20 23:47	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/05/20 23:47	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/05/20 23:47	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/05/20 23:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/05/20 23:47	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/05/20 23:47	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/05/20 23:47	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/05/20 23:47	1
Styrene	1.0	U	1.0	0.10	ug/L			03/05/20 23:47	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/05/20 23:47	1

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Date Collected: 03/03/20 09:09 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 23:47	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/05/20 23:47	1
Toluene	1.0	U	1.0	0.14	ug/L			03/05/20 23:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 23:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/05/20 23:47	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/05/20 23:47	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/05/20 23:47	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/05/20 23:47	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/05/20 23:47	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/05/20 23:47	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/05/20 23:47	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/05/20 23:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/05/20 23:47*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/05/20 23:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 130*		*03/05/20 23:47*	*1*
4-Bromofluorobenzene (Surr)	*91*		*47 - 134*		*03/05/20 23:47*	*1*
Toluene-d8 (Surr)	*98*		*69 - 122*		*03/05/20 23:47*	*1*
Dibromofluoromethane (Surr)	*103*		*78 - 129*		*03/05/20 23:47*	*1*

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Date Collected: 03/03/20 09:12 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 00:09	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 00:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 00:09	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 00:09	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 00:09	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 00:09	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 00:09	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 00:09	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 00:09	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 00:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 00:09	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 00:09	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 00:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 00:09	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 00:09	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 00:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 00:09	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 00:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 00:09	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 00:09	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 00:09	1

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Date Collected: 03/03/20 09:12 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 00:09	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 00:09	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 00:09	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 00:09	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 00:09	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 00:09	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 00:09	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 00:09	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 00:09	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 00:09	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 00:09	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 00:09	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 00:09	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 00:09	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 00:09	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 00:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 00:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 00:09	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 00:09	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 00:09	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 00:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 00:09	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 00:09	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 00:09	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 00:09	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 00:09	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 00:09	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 00:09	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 00:09	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 00:09	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 00:09	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 00:09	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 00:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 00:09	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 00:09	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 00:09	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 00:09	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 00:09	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 00:09	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 00:09	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 00:09	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 00:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 00:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 00:09	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 00:09	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 00:09	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 00:09	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 00:09	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 00:09	1

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Date Collected: 03/03/20 09:12 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 00:09	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 00:09	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 00:09*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 00:09*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 130*		*03/06/20 00:09*	*1*
4-Bromofluorobenzene (Surr)	*90*		*47 - 134*		*03/06/20 00:09*	*1*
Toluene-d8 (Surr)	*97*		*69 - 122*		*03/06/20 00:09*	*1*
Dibromofluoromethane (Surr)	*103*		*78 - 129*		*03/06/20 00:09*	*1*

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Date Collected: 03/03/20 09:21 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 00:31	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 00:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 00:31	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 00:31	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 00:31	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 00:31	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 00:31	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 00:31	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 00:31	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 00:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 00:31	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 00:31	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 00:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 00:31	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 00:31	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 00:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 00:31	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 00:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 00:31	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 00:31	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 00:31	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 00:31	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 00:31	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 00:31	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 00:31	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 00:31	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 00:31	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 00:31	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 00:31	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 00:31	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 00:31	1

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Date Collected: 03/03/20 09:21 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 00:31	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 00:31	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 00:31	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 00:31	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 00:31	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 00:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 00:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 00:31	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 00:31	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 00:31	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 00:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 00:31	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 00:31	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 00:31	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 00:31	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 00:31	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 00:31	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 00:31	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 00:31	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 00:31	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 00:31	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 00:31	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 00:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 00:31	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 00:31	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 00:31	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 00:31	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 00:31	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 00:31	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 00:31	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 00:31	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 00:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 00:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 00:31	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 00:31	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 00:31	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 00:31	1
Vinyl chloride	**0.24**	**J**	0.50	0.20	ug/L			03/06/20 00:31	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 00:31	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 00:31	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 00:31	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 00:31*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 00:31*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 130*		*03/06/20 00:31*	*1*
4-Bromofluorobenzene (Surr)	*89*		*47 - 134*		*03/06/20 00:31*	*1*
Toluene-d8 (Surr)	*98*		*69 - 122*		*03/06/20 00:31*	*1*

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Date Collected: 03/03/20 09:21 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*78 - 129*		*03/06/20 00:31*	*1*

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Date Collected: 03/03/20 09:24 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 00:54	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 00:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 00:54	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 00:54	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 00:54	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 00:54	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 00:54	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 00:54	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 00:54	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 00:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 00:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 00:54	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 00:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 00:54	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 00:54	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 00:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 00:54	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 00:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 00:54	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 00:54	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 00:54	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 00:54	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 00:54	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 00:54	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 00:54	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 00:54	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 00:54	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 00:54	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 00:54	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 00:54	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 00:54	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 00:54	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 00:54	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 00:54	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 00:54	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 00:54	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 00:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 00:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 00:54	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 00:54	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 00:54	1

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Date Collected: 03/03/20 09:24 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 00:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 00:54	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 00:54	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 00:54	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 00:54	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 00:54	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 00:54	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 00:54	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 00:54	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 00:54	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 00:54	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 00:54	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 00:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 00:54	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 00:54	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 00:54	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 00:54	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 00:54	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 00:54	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 00:54	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 00:54	1
Toluene	**0.18**	**J**	1.0	0.14	ug/L			03/06/20 00:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 00:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 00:54	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 00:54	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 00:54	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 00:54	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 00:54	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 00:54	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 00:54	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 00:54	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 00:54*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 00:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 130*		*03/06/20 00:54*	*1*
4-Bromofluorobenzene (Surr)	*89*		*47 - 134*		*03/06/20 00:54*	*1*
Toluene-d8 (Surr)	*96*		*69 - 122*		*03/06/20 00:54*	*1*
Dibromofluoromethane (Surr)	*102*		*78 - 129*		*03/06/20 00:54*	*1*

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Date Collected: 03/03/20 09:26 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 01:16	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 01:16	1

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Date Collected: 03/03/20 09:26 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 01:16	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 01:16	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 01:16	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 01:16	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 01:16	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 01:16	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 01:16	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 01:16	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 01:16	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 01:16	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 01:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 01:16	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 01:16	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 01:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 01:16	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 01:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 01:16	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 01:16	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 01:16	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 01:16	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 01:16	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 01:16	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 01:16	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 01:16	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 01:16	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 01:16	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 01:16	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 01:16	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 01:16	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 01:16	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 01:16	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 01:16	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 01:16	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 01:16	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 01:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 01:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 01:16	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 01:16	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 01:16	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 01:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 01:16	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 01:16	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 01:16	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 01:16	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 01:16	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 01:16	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 01:16	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 01:16	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 01:16	1

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Date Collected: 03/03/20 09:26 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 01:16	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 01:16	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 01:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 01:16	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 01:16	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 01:16	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 01:16	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 01:16	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 01:16	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 01:16	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 01:16	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 01:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 01:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 01:16	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 01:16	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 01:16	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 01:16	1
Vinyl chloride	**0.21**	**J**	0.50	0.20	ug/L			03/06/20 01:16	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 01:16	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 01:16	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 01:16	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 01:16*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 01:16*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 130*		*03/06/20 01:16*	*1*
4-Bromofluorobenzene (Surr)	*92*		*47 - 134*		*03/06/20 01:16*	*1*
Toluene-d8 (Surr)	*99*		*69 - 122*		*03/06/20 01:16*	*1*
Dibromofluoromethane (Surr)	*107*		*78 - 129*		*03/06/20 01:16*	*1*

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Date Collected: 03/03/20 09:29 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 01:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 01:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 01:39	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 01:39	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 01:39	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 01:39	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 01:39	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 01:39	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 01:39	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 01:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 01:39	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 01:39	1

Client Sample ID: MSA-SW40D-030320 **Lab Sample ID: 240-127107-12**
Date Collected: 03/03/20 09:29 **Matrix: Water**
Date Received: 03/04/20 09:30

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	5.0	U	5.0	0.91	ug/L			03/06/20 01:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 01:39	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 01:39	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 01:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 01:39	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 01:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 01:39	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 01:39	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 01:39	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 01:39	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 01:39	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 01:39	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 01:39	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 01:39	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 01:39	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 01:39	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 01:39	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 01:39	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 01:39	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 01:39	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 01:39	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 01:39	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 01:39	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 01:39	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 01:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 01:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 01:39	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 01:39	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 01:39	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 01:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 01:39	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 01:39	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 01:39	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 01:39	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 01:39	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 01:39	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 01:39	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 01:39	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 01:39	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 01:39	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 01:39	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 01:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 01:39	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 01:39	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 01:39	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 01:39	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 01:39	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 01:39	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 01:39	1

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Date Collected: 03/03/20 09:29 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 01:39	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 01:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 01:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 01:39	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 01:39	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 01:39	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 01:39	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 01:39	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 01:39	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 01:39	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 01:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 01:39*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 01:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 130*		*03/06/20 01:39*	*1*
4-Bromofluorobenzene (Surr)	*90*		*47 - 134*		*03/06/20 01:39*	*1*
Toluene-d8 (Surr)	*99*		*69 - 122*		*03/06/20 01:39*	*1*
Dibromofluoromethane (Surr)	*104*		*78 - 129*		*03/06/20 01:39*	*1*

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Date Collected: 03/03/20 08:44 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 02:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 02:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 02:01	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 02:01	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 02:01	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 02:01	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 02:01	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 02:01	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 02:01	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 02:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 02:01	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 02:01	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 02:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 02:01	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 02:01	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 02:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 02:01	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 02:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 02:01	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 02:01	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 02:01	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 02:01	1

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Date Collected: 03/03/20 08:44 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 02:01	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 02:01	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 02:01	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 02:01	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 02:01	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 02:01	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 02:01	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 02:01	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 02:01	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 02:01	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 02:01	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 02:01	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 02:01	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 02:01	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 02:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 02:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 02:01	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 02:01	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 02:01	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 02:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 02:01	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 02:01	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 02:01	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 02:01	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 02:01	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 02:01	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 02:01	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 02:01	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 02:01	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 02:01	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 02:01	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 02:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 02:01	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 02:01	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 02:01	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 02:01	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 02:01	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 02:01	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 02:01	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 02:01	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 02:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 02:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 02:01	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 02:01	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 02:01	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 02:01	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 02:01	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 02:01	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 02:01	1

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Date Collected: 03/03/20 08:44 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 02:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 02:01*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 02:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 130*		*03/06/20 02:01*	*1*
4-Bromofluorobenzene (Surr)	*96*		*47 - 134*		*03/06/20 02:01*	*1*
Toluene-d8 (Surr)	*103*		*69 - 122*		*03/06/20 02:01*	*1*
Dibromofluoromethane (Surr)	*107*		*78 - 129*		*03/06/20 02:01*	*1*

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Date Collected: 03/03/20 08:49 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 02:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 02:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 02:24	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 02:24	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 02:24	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 02:24	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 02:24	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 02:24	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 02:24	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 02:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 02:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 02:24	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 02:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 02:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 02:24	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 02:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 02:24	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 02:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 02:24	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 02:24	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 02:24	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 02:24	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 02:24	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 02:24	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 02:24	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 02:24	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 02:24	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 02:24	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 02:24	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 02:24	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 02:24	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 02:24	1

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Date Collected: 03/03/20 08:49 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 02:24	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 02:24	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 02:24	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 02:24	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 02:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 02:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 02:24	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 02:24	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 02:24	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 02:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 02:24	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 02:24	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 02:24	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 02:24	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 02:24	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 02:24	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 02:24	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 02:24	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 02:24	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 02:24	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 02:24	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 02:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 02:24	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 02:24	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 02:24	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 02:24	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 02:24	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 02:24	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 02:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 02:24	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 02:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 02:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 02:24	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 02:24	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 02:24	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 02:24	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 02:24	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 02:24	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 02:24	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 02:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 02:24*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 02:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 130*		*03/06/20 02:24*	*1*
4-Bromofluorobenzene (Surr)	*88*		*47 - 134*		*03/06/20 02:24*	*1*
Toluene-d8 (Surr)	*97*		*69 - 122*		*03/06/20 02:24*	*1*
Dibromofluoromethane (Surr)	*105*		*78 - 129*		*03/06/20 02:24*	*1*

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Date Collected: 03/03/20 08:51 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 02:46	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 02:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 02:46	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 02:46	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 02:46	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 02:46	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 02:46	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 02:46	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 02:46	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 02:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 02:46	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 02:46	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 02:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 02:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 02:46	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 02:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 02:46	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 02:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 02:46	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 02:46	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 02:46	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 02:46	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 02:46	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 02:46	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 02:46	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 02:46	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 02:46	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 02:46	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 02:46	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 02:46	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 02:46	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 02:46	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 02:46	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 02:46	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 02:46	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 02:46	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 02:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 02:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 02:46	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 02:46	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 02:46	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 02:46	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 02:46	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 02:46	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 02:46	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 02:46	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 02:46	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 02:46	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 02:46	1

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Date Collected: 03/03/20 08:51 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 02:46	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 02:46	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 02:46	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 02:46	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 02:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 02:46	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 02:46	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 02:46	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 02:46	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 02:46	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 02:46	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 02:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 02:46	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 02:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 02:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 02:46	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 02:46	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 02:46	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 02:46	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 02:46	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 02:46	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 02:46	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 02:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 02:46*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 02:46*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 130*		*03/06/20 02:46*	*1*
4-Bromofluorobenzene (Surr)	*86*		*47 - 134*		*03/06/20 02:46*	*1*
Toluene-d8 (Surr)	*96*		*69 - 122*		*03/06/20 02:46*	*1*
Dibromofluoromethane (Surr)	*100*		*78 - 129*		*03/06/20 02:46*	*1*

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Date Collected: 03/03/20 08:55 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 15:01	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 15:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 15:01	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 15:01	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 15:01	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 15:01	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 15:01	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 15:01	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 15:01	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 15:01	1

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Date Collected: 03/03/20 08:55 **Matrix: Water**
Date Received: 03/04/20 09:30

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			03/06/20 15:01	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 15:01	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 15:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 15:01	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 15:01	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 15:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 15:01	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 15:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 15:01	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 15:01	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 15:01	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 15:01	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 15:01	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 15:01	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 15:01	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 15:01	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 15:01	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 15:01	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 15:01	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 15:01	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 15:01	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 15:01	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 15:01	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 15:01	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 15:01	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 15:01	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 15:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 15:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 15:01	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 15:01	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 15:01	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 15:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 15:01	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 15:01	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 15:01	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 15:01	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 15:01	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 15:01	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 15:01	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 15:01	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 15:01	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 15:01	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 15:01	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 15:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 15:01	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 15:01	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 15:01	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 15:01	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 15:01	1

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Date Collected: 03/03/20 08:55 **Matrix: Water**
Date Received: 03/04/20 09:30

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			03/06/20 15:01	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 15:01	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 15:01	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 15:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 15:01	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 15:01	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 15:01	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 15:01	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 15:01	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 15:01	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 15:01	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 15:01	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 15:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 15:01*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 15:01*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 130*		*03/06/20 15:01*	*1*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*03/06/20 15:01*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*03/06/20 15:01*	*1*
Dibromofluoromethane (Surr)	*118*		*78 - 129*		*03/06/20 15:01*	*1*

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Date Collected: 03/03/20 09:40 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 15:25	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 15:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 15:25	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 15:25	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 15:25	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 15:25	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 15:25	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 15:25	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 15:25	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 15:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 15:25	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 15:25	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 15:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 15:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 15:25	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 15:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 15:25	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 15:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 15:25	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 15:25	1

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Date Collected: 03/03/20 09:40 **Matrix: Water**
Date Received: 03/04/20 09:30

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			03/06/20 15:25	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 15:25	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 15:25	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 15:25	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 15:25	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 15:25	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 15:25	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 15:25	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 15:25	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 15:25	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 15:25	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 15:25	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 15:25	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 15:25	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 15:25	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 15:25	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 15:25	1
cis-1,2-Dichloroethene	**0.38**	**J**	1.0	0.16	ug/L			03/06/20 15:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 15:25	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 15:25	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 15:25	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 15:25	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 15:25	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 15:25	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 15:25	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 15:25	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 15:25	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 15:25	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 15:25	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 15:25	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 15:25	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 15:25	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 15:25	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 15:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 15:25	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 15:25	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 15:25	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 15:25	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 15:25	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 15:25	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 15:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 15:25	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 15:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 15:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 15:25	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 15:25	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 15:25	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 15:25	1
Vinyl chloride	**1.0**		0.50	0.20	ug/L			03/06/20 15:25	1

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Date Collected: 03/03/20 09:40 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 15:25	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 15:25	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 15:25	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 15:25*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 15:25*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 130*		*03/06/20 15:25*	*1*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*03/06/20 15:25*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*03/06/20 15:25*	*1*
Dibromofluoromethane (Surr)	*118*		*78 - 129*		*03/06/20 15:25*	*1*

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Date Collected: 03/03/20 09:43 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 15:50	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 15:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 15:50	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 15:50	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 15:50	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 15:50	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 15:50	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 15:50	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 15:50	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 15:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 15:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 15:50	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 15:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 15:50	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 15:50	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 15:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 15:50	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 15:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 15:50	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 15:50	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 15:50	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 15:50	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 15:50	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 15:50	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 15:50	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 15:50	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 15:50	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 15:50	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 15:50	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 15:50	1

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Date Collected: 03/03/20 09:43 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 15:50	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 15:50	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 15:50	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 15:50	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 15:50	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 15:50	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 15:50	1
cis-1,2-Dichloroethene	**0.28**	**J**	1.0	0.16	ug/L			03/06/20 15:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 15:50	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 15:50	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 15:50	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 15:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 15:50	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 15:50	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 15:50	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 15:50	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 15:50	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 15:50	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 15:50	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 15:50	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 15:50	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 15:50	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 15:50	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 15:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 15:50	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 15:50	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 15:50	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 15:50	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 15:50	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 15:50	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 15:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 15:50	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 15:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 15:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 15:50	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 15:50	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 15:50	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 15:50	1
Vinyl chloride	**0.64**		0.50	0.20	ug/L			03/06/20 15:50	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 15:50	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 15:50	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 15:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 15:50*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 15:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 130*		*03/06/20 15:50*	*1*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*03/06/20 15:50*	*1*

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Date Collected: 03/03/20 09:43 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*69 - 122*		*03/06/20 15:50*	*1*
Dibromofluoromethane (Surr)	*117*		*78 - 129*		*03/06/20 15:50*	*1*

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Date Collected: 03/03/20 09:45 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 16:15	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 16:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 16:15	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 16:15	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 16:15	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 16:15	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 16:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 16:15	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 16:15	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 16:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 16:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 16:15	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 16:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 16:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 16:15	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 16:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 16:15	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 16:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 16:15	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 16:15	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 16:15	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 16:15	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 16:15	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 16:15	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 16:15	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 16:15	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 16:15	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 16:15	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 16:15	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 16:15	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 16:15	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 16:15	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 16:15	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 16:15	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 16:15	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 16:15	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 16:15	1
cis-1,2-Dichloroethene	**0.22**	**J**	1.0	0.16	ug/L			03/06/20 16:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 16:15	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 16:15	1

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Date Collected: 03/03/20 09:45 **Matrix: Water**
Date Received: 03/04/20 09:30

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			03/06/20 16:15	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 16:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 16:15	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 16:15	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 16:15	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 16:15	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 16:15	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 16:15	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 16:15	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 16:15	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 16:15	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 16:15	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 16:15	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 16:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 16:15	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 16:15	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 16:15	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 16:15	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 16:15	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 16:15	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 16:15	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 16:15	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 16:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 16:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 16:15	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 16:15	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 16:15	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 16:15	1
Vinyl chloride	**0.50**		0.50	0.20	ug/L			03/06/20 16:15	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 16:15	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 16:15	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 16:15	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 16:15*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 16:15*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 130*		*03/06/20 16:15*	*1*
4-Bromofluorobenzene (Surr)	*109*		*47 - 134*		*03/06/20 16:15*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*03/06/20 16:15*	*1*
Dibromofluoromethane (Surr)	*120*		*78 - 129*		*03/06/20 16:15*	*1*

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Date Collected: 03/03/20 09:48 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 16:40	1

Client Sample ID: MSA-SW42D-030320 **Lab Sample ID: 240-127107-20**
Date Collected: 03/03/20 09:48 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 16:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 16:40	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 16:40	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 16:40	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 16:40	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 16:40	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 16:40	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 16:40	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 16:40	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 16:40	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 16:40	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 16:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 16:40	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 16:40	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 16:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 16:40	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 16:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 16:40	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 16:40	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 16:40	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 16:40	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 16:40	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 16:40	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 16:40	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 16:40	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 16:40	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 16:40	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 16:40	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 16:40	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 16:40	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 16:40	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 16:40	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 16:40	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 16:40	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 16:40	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 16:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 16:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 16:40	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 16:40	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 16:40	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 16:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 16:40	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 16:40	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 16:40	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 16:40	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 16:40	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 16:40	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 16:40	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 16:40	1

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Date Collected: 03/03/20 09:48 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 16:40	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 16:40	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 16:40	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 16:40	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 16:40	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 16:40	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 16:40	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 16:40	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 16:40	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 16:40	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 16:40	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 16:40	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 16:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 16:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 16:40	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 16:40	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 16:40	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 16:40	1
Vinyl chloride	**0.26**	**J**	0.50	0.20	ug/L			03/06/20 16:40	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 16:40	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 16:40	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 16:40	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 16:40*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 16:40*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 130*		*03/06/20 16:40*	*1*
4-Bromofluorobenzene (Surr)	*107*		*47 - 134*		*03/06/20 16:40*	*1*
Toluene-d8 (Surr)	*92*		*69 - 122*		*03/06/20 16:40*	*1*
Dibromofluoromethane (Surr)	*117*		*78 - 129*		*03/06/20 16:40*	*1*

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Date Collected: 03/03/20 08:26 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 17:05	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 17:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 17:05	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 17:05	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 17:05	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 17:05	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 17:05	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 17:05	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 17:05	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 17:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 17:05	1

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Date Collected: 03/03/20 08:26 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 17:05	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 17:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 17:05	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 17:05	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 17:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 17:05	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 17:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 17:05	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 17:05	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 17:05	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 17:05	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 17:05	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 17:05	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 17:05	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 17:05	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 17:05	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 17:05	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 17:05	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 17:05	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 17:05	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 17:05	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 17:05	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 17:05	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 17:05	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 17:05	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 17:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 17:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 17:05	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 17:05	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 17:05	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 17:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 17:05	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 17:05	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 17:05	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 17:05	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 17:05	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 17:05	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 17:05	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 17:05	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 17:05	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 17:05	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 17:05	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 17:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 17:05	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 17:05	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 17:05	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 17:05	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 17:05	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 17:05	1

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Date Collected: 03/03/20 08:26 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 17:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 17:05	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 17:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 17:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 17:05	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 17:05	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 17:05	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 17:05	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 17:05	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 17:05	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 17:05	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 17:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 17:05*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 17:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 130*		*03/06/20 17:05*	*1*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*03/06/20 17:05*	*1*
Toluene-d8 (Surr)	*95*		*69 - 122*		*03/06/20 17:05*	*1*
Dibromofluoromethane (Surr)	*113*		*78 - 129*		*03/06/20 17:05*	*1*

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Date Collected: 03/03/20 08:30 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 17:30	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 17:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 17:30	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 17:30	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 17:30	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 17:30	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 17:30	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 17:30	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 17:30	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 17:30	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 17:30	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 17:30	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 17:30	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 17:30	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 17:30	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 17:30	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 17:30	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 17:30	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 17:30	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 17:30	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 17:30	1

Client Sample ID: MSA-SW43B-030320 **Lab Sample ID: 240-127107-22**
Date Collected: 03/03/20 08:30 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 17:30	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 17:30	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 17:30	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 17:30	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 17:30	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 17:30	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 17:30	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 17:30	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 17:30	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 17:30	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 17:30	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 17:30	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 17:30	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 17:30	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 17:30	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 17:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 17:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 17:30	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 17:30	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 17:30	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 17:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 17:30	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 17:30	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 17:30	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 17:30	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 17:30	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 17:30	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 17:30	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 17:30	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 17:30	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 17:30	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 17:30	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 17:30	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 17:30	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 17:30	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 17:30	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 17:30	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 17:30	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 17:30	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 17:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 17:30	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 17:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 17:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 17:30	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 17:30	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 17:30	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 17:30	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 17:30	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 17:30	1

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Date Collected: 03/03/20 08:30 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 17:30	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 17:30	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 17:30*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 17:30*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 130*		*03/06/20 17:30*	*1*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*03/06/20 17:30*	*1*
Toluene-d8 (Surr)	*95*		*69 - 122*		*03/06/20 17:30*	*1*
Dibromofluoromethane (Surr)	*116*		*78 - 129*		*03/06/20 17:30*	*1*

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Date Collected: 03/03/20 09:34 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 17:55	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 17:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 17:55	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 17:55	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 17:55	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 17:55	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 17:55	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 17:55	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 17:55	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 17:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 17:55	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 17:55	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 17:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 17:55	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 17:55	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 17:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 17:55	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 17:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 17:55	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 17:55	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 17:55	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 17:55	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 17:55	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 17:55	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 17:55	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 17:55	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 17:55	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 17:55	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 17:55	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 17:55	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 17:55	1

Client Sample ID: MSA-SW43C-030320 **Lab Sample ID: 240-127107-23**
Date Collected: 03/03/20 09:34 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 17:55	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 17:55	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 17:55	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 17:55	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 17:55	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 17:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 17:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 17:55	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 17:55	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 17:55	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 17:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 17:55	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 17:55	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 17:55	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 17:55	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 17:55	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 17:55	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 17:55	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 17:55	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 17:55	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 17:55	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 17:55	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 17:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 17:55	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 17:55	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 17:55	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 17:55	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 17:55	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 17:55	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 17:55	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 17:55	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 17:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 17:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 17:55	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 17:55	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 17:55	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 17:55	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 17:55	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 17:55	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 17:55	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 17:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 17:55*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 17:55*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 130*		*03/06/20 17:55*	*1*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*03/06/20 17:55*	*1*
Toluene-d8 (Surr)	*96*		*69 - 122*		*03/06/20 17:55*	*1*

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Date Collected: 03/03/20 09:34 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*78 - 129*		*03/06/20 17:55*	*1*

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Date Collected: 03/03/20 08:37 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 18:20	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 18:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 18:20	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 18:20	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 18:20	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 18:20	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 18:20	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 18:20	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 18:20	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 18:20	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 18:20	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 18:20	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 18:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 18:20	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 18:20	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 18:20	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 18:20	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 18:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 18:20	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 18:20	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 18:20	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 18:20	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 18:20	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 18:20	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 18:20	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 18:20	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 18:20	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 18:20	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 18:20	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 18:20	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 18:20	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 18:20	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 18:20	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 18:20	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 18:20	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 18:20	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 18:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 18:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 18:20	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 18:20	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 18:20	1

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Date Collected: 03/03/20 08:37 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 18:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 18:20	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 18:20	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 18:20	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 18:20	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 18:20	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 18:20	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 18:20	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 18:20	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 18:20	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 18:20	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 18:20	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 18:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 18:20	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 18:20	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 18:20	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 18:20	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 18:20	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 18:20	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 18:20	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 18:20	1
Toluene	**0.14**	**J**	1.0	0.14	ug/L			03/06/20 18:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 18:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 18:20	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 18:20	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 18:20	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 18:20	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 18:20	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 18:20	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 18:20	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 18:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 18:20*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 18:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 130*		*03/06/20 18:20*	*1*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*03/06/20 18:20*	*1*
Toluene-d8 (Surr)	*95*		*69 - 122*		*03/06/20 18:20*	*1*
Dibromofluoromethane (Surr)	*116*		*78 - 129*		*03/06/20 18:20*	*1*

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Date Collected: 03/03/20 08:06 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 18:45	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 18:45	1

Client Sample ID: MSA-SW44A-030320 **Lab Sample ID: 240-127107-25**
Date Collected: 03/03/20 08:06 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 18:45	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 18:45	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 18:45	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 18:45	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 18:45	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 18:45	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 18:45	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 18:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 18:45	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 18:45	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 18:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 18:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 18:45	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 18:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 18:45	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 18:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 18:45	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 18:45	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 18:45	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 18:45	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 18:45	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 18:45	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 18:45	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 18:45	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 18:45	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 18:45	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 18:45	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 18:45	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 18:45	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 18:45	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 18:45	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 18:45	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 18:45	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 18:45	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 18:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 18:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 18:45	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 18:45	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 18:45	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 18:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 18:45	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 18:45	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 18:45	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 18:45	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 18:45	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 18:45	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 18:45	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 18:45	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 18:45	1

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Date Collected: 03/03/20 08:06 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 18:45	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 18:45	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 18:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 18:45	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 18:45	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 18:45	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 18:45	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 18:45	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 18:45	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 18:45	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 18:45	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 18:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 18:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 18:45	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 18:45	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 18:45	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 18:45	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 18:45	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 18:45	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 18:45	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 18:45	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 18:45*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 18:45*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 130*		*03/06/20 18:45*	*1*
4-Bromofluorobenzene (Surr)	*105*		*47 - 134*		*03/06/20 18:45*	*1*
Toluene-d8 (Surr)	*93*		*69 - 122*		*03/06/20 18:45*	*1*
Dibromofluoromethane (Surr)	*113*		*78 - 129*		*03/06/20 18:45*	*1*

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Date Collected: 03/03/20 08:13 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 19:10	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 19:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 19:10	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 19:10	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 19:10	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 19:10	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 19:10	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 19:10	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 19:10	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 19:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 19:10	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 19:10	1

Client Sample ID: MSA-SW44B-030320 **Lab Sample ID: 240-127107-26**
Date Collected: 03/03/20 08:13 **Matrix: Water**
Date Received: 03/04/20 09:30

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	5.0	U	5.0	0.91	ug/L			03/06/20 19:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 19:10	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 19:10	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 19:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 19:10	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 19:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 19:10	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 19:10	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 19:10	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 19:10	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 19:10	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 19:10	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 19:10	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 19:10	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 19:10	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 19:10	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 19:10	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 19:10	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 19:10	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 19:10	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 19:10	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 19:10	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 19:10	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 19:10	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 19:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 19:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 19:10	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 19:10	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 19:10	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 19:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 19:10	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 19:10	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 19:10	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 19:10	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 19:10	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 19:10	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 19:10	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 19:10	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 19:10	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 19:10	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 19:10	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 19:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 19:10	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 19:10	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 19:10	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 19:10	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 19:10	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 19:10	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 19:10	1

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Date Collected: 03/03/20 08:13 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 19:10	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 19:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 19:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 19:10	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 19:10	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 19:10	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 19:10	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 19:10	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 19:10	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 19:10	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 19:10	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.5*	*T J*	*ug/L*		*2.25*			*03/06/20 19:10*	*1*
Isopropyl Alcohol	*7.8*	*T J N*	*ug/L*		*3.49*	*67-63-0*		*03/06/20 19:10*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 19:10*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 130*		*03/06/20 19:10*	*1*
4-Bromofluorobenzene (Surr)	*105*		*47 - 134*		*03/06/20 19:10*	*1*
Toluene-d8 (Surr)	*92*		*69 - 122*		*03/06/20 19:10*	*1*
Dibromofluoromethane (Surr)	*123*		*78 - 129*		*03/06/20 19:10*	*1*

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Date Collected: 03/03/20 08:16 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 19:34	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 19:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 19:34	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 19:34	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 19:34	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 19:34	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 19:34	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 19:34	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 19:34	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 19:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 19:34	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 19:34	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 19:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 19:34	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 19:34	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 19:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 19:34	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 19:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 19:34	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 19:34	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 19:34	1

Client Sample ID: MSA-SW44C-030320 **Lab Sample ID: 240-127107-27**
Date Collected: 03/03/20 08:16 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 19:34	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 19:34	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 19:34	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 19:34	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 19:34	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 19:34	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 19:34	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 19:34	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 19:34	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 19:34	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 19:34	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 19:34	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 19:34	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 19:34	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 19:34	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 19:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 19:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 19:34	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 19:34	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 19:34	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 19:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 19:34	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 19:34	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 19:34	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 19:34	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 19:34	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 19:34	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 19:34	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 19:34	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 19:34	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 19:34	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 19:34	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 19:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 19:34	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 19:34	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 19:34	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 19:34	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 19:34	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 19:34	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 19:34	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 19:34	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 19:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 19:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 19:34	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 19:34	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 19:34	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 19:34	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 19:34	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 19:34	1

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Date Collected: 03/03/20 08:16 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 19:34	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 19:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 19:34*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 19:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 130*		*03/06/20 19:34*	*1*
4-Bromofluorobenzene (Surr)	*106*		*47 - 134*		*03/06/20 19:34*	*1*
Toluene-d8 (Surr)	*92*		*69 - 122*		*03/06/20 19:34*	*1*
Dibromofluoromethane (Surr)	*121*		*78 - 129*		*03/06/20 19:34*	*1*

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Date Collected: 03/03/20 08:19 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 19:59	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 19:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 19:59	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 19:59	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 19:59	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 19:59	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 19:59	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 19:59	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 19:59	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 19:59	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 19:59	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 19:59	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 19:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 19:59	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 19:59	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 19:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 19:59	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 19:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 19:59	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 19:59	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 19:59	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 19:59	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 19:59	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 19:59	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 19:59	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 19:59	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 19:59	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 19:59	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 19:59	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 19:59	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 19:59	1

Client Sample ID: MSA-SW44D-030320 **Lab Sample ID: 240-127107-28**
Date Collected: 03/03/20 08:19 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 19:59	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 19:59	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 19:59	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 19:59	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 19:59	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 19:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 19:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 19:59	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 19:59	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 19:59	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 19:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 19:59	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 19:59	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 19:59	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 19:59	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 19:59	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 19:59	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 19:59	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 19:59	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 19:59	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 19:59	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 19:59	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 19:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 19:59	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 19:59	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 19:59	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 19:59	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 19:59	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 19:59	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 19:59	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 19:59	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 19:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 19:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 19:59	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 19:59	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 19:59	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 19:59	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 19:59	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 19:59	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 19:59	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 19:59	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 19:59*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 19:59*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 130*		*03/06/20 19:59*	*1*
4-Bromofluorobenzene (Surr)	*105*		*47 - 134*		*03/06/20 19:59*	*1*
Toluene-d8 (Surr)	*94*		*69 - 122*		*03/06/20 19:59*	*1*

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Date Collected: 03/03/20 08:19 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*120*		*78 - 129*		*03/06/20 19:59*	*1*

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

Date Collected: 03/03/20 00:00 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 20:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 20:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 20:24	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 20:24	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 20:24	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 20:24	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 20:24	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 20:24	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 20:24	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 20:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 20:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 20:24	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 20:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 20:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 20:24	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 20:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 20:24	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 20:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 20:24	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 20:24	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 20:24	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 20:24	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 20:24	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 20:24	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 20:24	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 20:24	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 20:24	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 20:24	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 20:24	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 20:24	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 20:24	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 20:24	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 20:24	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 20:24	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 20:24	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 20:24	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 20:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 20:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 20:24	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 20:24	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 20:24	1

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

Date Collected: 03/03/20 00:00 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 20:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 20:24	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 20:24	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 20:24	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 20:24	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 20:24	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 20:24	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 20:24	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 20:24	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 20:24	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 20:24	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 20:24	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 20:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 20:24	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 20:24	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 20:24	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 20:24	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 20:24	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 20:24	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 20:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 20:24	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 20:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 20:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 20:24	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 20:24	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 20:24	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 20:24	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 20:24	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 20:24	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 20:24	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 20:24	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 20:24*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 20:24*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 130*		*03/06/20 20:24*	*1*
4-Bromofluorobenzene (Surr)	*106*		*47 - 134*		*03/06/20 20:24*	*1*
Toluene-d8 (Surr)	*93*		*69 - 122*		*03/06/20 20:24*	*1*
Dibromofluoromethane (Surr)	*121*		*78 - 129*		*03/06/20 20:24*	*1*

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

Date Collected: 03/03/20 09:37 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 20:49	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 20:49	1

Client Sample ID: MSA-SW46A-030320 **Lab Sample ID: 240-127107-30**
Date Collected: 03/03/20 09:37 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 20:49	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 20:49	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 20:49	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 20:49	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 20:49	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 20:49	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 20:49	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 20:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 20:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 20:49	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 20:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 20:49	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 20:49	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 20:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 20:49	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 20:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 20:49	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 20:49	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 20:49	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 20:49	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 20:49	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 20:49	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 20:49	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 20:49	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 20:49	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 20:49	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 20:49	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 20:49	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 20:49	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 20:49	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 20:49	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 20:49	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 20:49	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 20:49	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 20:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 20:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 20:49	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 20:49	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 20:49	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 20:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 20:49	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 20:49	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 20:49	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 20:49	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 20:49	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 20:49	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 20:49	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 20:49	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 20:49	1

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

Date Collected: 03/03/20 09:37 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 20:49	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 20:49	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 20:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 20:49	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 20:49	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 20:49	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 20:49	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 20:49	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 20:49	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 20:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 20:49	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 20:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 20:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 20:49	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 20:49	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 20:49	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 20:49	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 20:49	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 20:49	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 20:49	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 20:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 20:49*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 20:49*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 130*		*03/06/20 20:49*	*1*
4-Bromofluorobenzene (Surr)	*108*		*47 - 134*		*03/06/20 20:49*	*1*
Toluene-d8 (Surr)	*93*		*69 - 122*		*03/06/20 20:49*	*1*
Dibromofluoromethane (Surr)	*121*		*78 - 129*		*03/06/20 20:49*	*1*

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Date Collected: 03/03/20 09:16 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 21:14	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 21:14	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 21:14	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 21:14	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 21:14	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 21:14	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 21:14	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 21:14	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 21:14	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 21:14	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 21:14	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 21:14	1

Client Sample ID: MSA-SW47A-030320 **Lab Sample ID: 240-127107-31**
Date Collected: 03/03/20 09:16 **Matrix: Water**
Date Received: 03/04/20 09:30

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	5.0	U	5.0	0.91	ug/L			03/06/20 21:14	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 21:14	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 21:14	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 21:14	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 21:14	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 21:14	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 21:14	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 21:14	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 21:14	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 21:14	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 21:14	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 21:14	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 21:14	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 21:14	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 21:14	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 21:14	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 21:14	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 21:14	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 21:14	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 21:14	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 21:14	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 21:14	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 21:14	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 21:14	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 21:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 21:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 21:14	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 21:14	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 21:14	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 21:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 21:14	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 21:14	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 21:14	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 21:14	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 21:14	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 21:14	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 21:14	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 21:14	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 21:14	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 21:14	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 21:14	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 21:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 21:14	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 21:14	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 21:14	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 21:14	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 21:14	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 21:14	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 21:14	1

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Date Collected: 03/03/20 09:16 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 21:14	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 21:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 21:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 21:14	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 21:14	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 21:14	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 21:14	1
Vinyl chloride	**0.22**	**J**	0.50	0.20	ug/L			03/06/20 21:14	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 21:14	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 21:14	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 21:14	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 21:14*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 21:14*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 130*		*03/06/20 21:14*	*1*
4-Bromofluorobenzene (Surr)	*105*		*47 - 134*		*03/06/20 21:14*	*1*
Toluene-d8 (Surr)	*92*		*69 - 122*		*03/06/20 21:14*	*1*
Dibromofluoromethane (Surr)	*114*		*78 - 129*		*03/06/20 21:14*	*1*

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Date Collected: 03/03/20 08:59 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 21:39	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 21:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 21:39	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 21:39	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 21:39	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 21:39	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 21:39	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 21:39	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 21:39	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 21:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 21:39	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 21:39	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 21:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 21:39	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 21:39	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 21:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 21:39	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 21:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 21:39	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 21:39	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 21:39	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 21:39	1

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Date Collected: 03/03/20 08:59 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 21:39	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 21:39	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 21:39	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 21:39	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 21:39	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 21:39	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 21:39	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 21:39	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 21:39	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 21:39	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 21:39	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 21:39	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 21:39	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 21:39	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 21:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 21:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 21:39	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 21:39	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 21:39	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 21:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 21:39	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 21:39	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 21:39	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 21:39	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 21:39	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 21:39	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 21:39	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 21:39	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 21:39	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 21:39	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 21:39	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 21:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 21:39	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 21:39	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 21:39	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 21:39	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 21:39	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 21:39	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 21:39	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 21:39	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 21:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 21:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 21:39	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 21:39	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 21:39	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 21:39	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 21:39	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 21:39	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 21:39	1

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Date Collected: 03/03/20 08:59 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 21:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 21:39*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 21:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 130*		*03/06/20 21:39*	*1*
4-Bromofluorobenzene (Surr)	*107*		*47 - 134*		*03/06/20 21:39*	*1*
Toluene-d8 (Surr)	*95*		*69 - 122*		*03/06/20 21:39*	*1*
Dibromofluoromethane (Surr)	*114*		*78 - 129*		*03/06/20 21:39*	*1*

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

Date Collected: 03/03/20 08:37 **Matrix: Water**
Date Received: 03/04/20 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 22:04	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 22:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 22:04	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 22:04	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 22:04	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 22:04	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 22:04	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 22:04	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 22:04	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 22:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 22:04	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 22:04	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 22:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 22:04	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 22:04	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 22:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 22:04	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 22:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 22:04	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 22:04	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 22:04	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 22:04	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 22:04	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 22:04	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 22:04	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 22:04	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 22:04	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 22:04	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 22:04	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 22:04	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 22:04	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 22:04	1

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

Date Collected: 03/03/20 08:37 **Matrix: Water**
Date Received: 03/04/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 22:04	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 22:04	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 22:04	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 22:04	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 22:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 22:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 22:04	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 22:04	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 22:04	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 22:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 22:04	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 22:04	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 22:04	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 22:04	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 22:04	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 22:04	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 22:04	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 22:04	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 22:04	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 22:04	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 22:04	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 22:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 22:04	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 22:04	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 22:04	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 22:04	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 22:04	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 22:04	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 22:04	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 22:04	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 22:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 22:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 22:04	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 22:04	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 22:04	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 22:04	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 22:04	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 22:04	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 22:04	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 22:04	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/06/20 22:04*	*1*
Chlorodifluoromethane TIC	*1.0*	*U*	*ug/L*			*75-45-6*		*03/06/20 22:04*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 130*		*03/06/20 22:04*	*1*
4-Bromofluorobenzene (Surr)	*107*		*47 - 134*		*03/06/20 22:04*	*1*
Toluene-d8 (Surr)	*97*		*69 - 122*		*03/06/20 22:04*	*1*
Dibromofluoromethane (Surr)	*116*		*78 - 129*		*03/06/20 22:04*	*1*

Default Detection Limits

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

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	5.0	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	5.0	1.2	ug/L
2-Chloroethyl vinyl ether	10	0.26	ug/L
2-Chlorotoluene	1.0	0.15	ug/L
2-Hexanone	5.0	0.54	ug/L
4-Chlorotoluene	1.0	0.090	ug/L
4-Methyl-2-pentanone	5.0	0.42	ug/L
Acetone	5.0	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	5.0	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. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

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	20	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	0.50	0.20	ug/L
Xylenes, Total	2.0	0.15	ug/L

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(75-130)	(47-134)	(69-122)	(78-129)
240-127080-E-3 MS	Matrix Spike	93	113	97	106
240-127080-E-3 MSD	Matrix Spike Duplicate	91	112	95	105
240-127107-1	MSA-SW37A-030320	98	89	98	102
240-127107-2	MSA-SW37B-030320	98	91	98	103
240-127107-3	MSA-SW37C-030320	100	90	99	103
240-127107-4	MSA-SW37D-030320	100	92	101	103
240-127107-5	MSA-SW38A-030320	96	90	98	102
240-127107-6	MSA-SW38B-030320	97	90	97	103
240-127107-7	MSA-SW38C-030320	100	91	98	103
240-127107-8	MSA-SW38D-030320	98	90	97	103
240-127107-9	MSA-SW40A-030320	100	89	98	107
240-127107-10	MSA-SW40B-030320	94	89	96	102
240-127107-11	MSA-SW40C-030320	99	92	99	107
240-127107-12	MSA-SW40D-030320	99	90	99	104
240-127107-13	MSA-SW41A-030320	104	96	103	107
240-127107-14	MSA-SW41B-030320	99	88	97	105
240-127107-15	MSA-SW41C-030320	95	86	96	100
240-127107-16	MSA-SW41D-030320	100	108	94	118
240-127107-17	MSA-SW42A-030320	104	108	94	118
240-127107-18	MSA-SW42B-030320	104	108	93	117
240-127107-19	MSA-SW42C-030320	104	109	94	120
240-127107-20	MSA-SW42D-030320	101	107	92	117
240-127107-21	MSA-SW43A-030320	106	108	95	113
240-127107-22	MSA-SW43B-030320	105	108	95	116
240-127107-23	MSA-SW43C-030320	104	108	96	113
240-127107-24	MSA-SW43D-030320	106	108	95	116
240-127107-25	MSA-SW44A-030320	103	105	93	113
240-127107-26	MSA-SW44B-030320	105	105	92	123
240-127107-27	MSA-SW44C-030320	105	106	92	121
240-127107-28	MSA-SW44D-030320	104	105	94	120
240-127107-29	TB-030320	107	106	93	121
240-127107-30	MSA-SW46A-030320	105	108	93	121
240-127107-31	MSA-SW47A-030320	104	105	92	114
240-127107-32	MSA-SW48A-030320	107	107	95	114
240-127107-33	MSA-SW49A-030320	107	107	97	116
LCS 240-425546/5	Lab Control Sample	90	93	101	97
LCS 240-425629/5	Lab Control Sample	92	112	97	104
MB 240-425546/8	Method Blank	96	88	98	100
MB 240-425629/8	Method Blank	101	107	93	112

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-425546/8 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 425546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/05/20 20:24	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/05/20 20:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/05/20 20:24	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/05/20 20:24	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/05/20 20:24	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 20:24	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/05/20 20:24	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/05/20 20:24	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/05/20 20:24	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/05/20 20:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/05/20 20:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/05/20 20:24	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/05/20 20:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 20:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/05/20 20:24	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/05/20 20:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/05/20 20:24	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/05/20 20:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/05/20 20:24	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/05/20 20:24	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/05/20 20:24	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/05/20 20:24	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/05/20 20:24	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/05/20 20:24	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/05/20 20:24	1
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/05/20 20:24	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/05/20 20:24	1
Acetone	5.0	U	5.0	5.4	ug/L			03/05/20 20:24	1
Benzene	1.0	U	1.0	0.13	ug/L			03/05/20 20:24	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/05/20 20:24	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/05/20 20:24	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/05/20 20:24	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/05/20 20:24	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/05/20 20:24	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/05/20 20:24	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/05/20 20:24	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/05/20 20:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/05/20 20:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/05/20 20:24	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/05/20 20:24	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/05/20 20:24	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/05/20 20:24	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/05/20 20:24	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/05/20 20:24	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/05/20 20:24	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/05/20 20:24	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/05/20 20:24	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/05/20 20:24	1

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

Lab Sample ID: MB 240-425546/8 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 425546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 20:24	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/05/20 20:24	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/05/20 20:24	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/05/20 20:24	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/05/20 20:24	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/05/20 20:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/05/20 20:24	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/05/20 20:24	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/05/20 20:24	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/05/20 20:24	1
Styrene	1.0	U	1.0	0.10	ug/L			03/05/20 20:24	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/05/20 20:24	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/05/20 20:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/05/20 20:24	1
Toluene	1.0	U	1.0	0.14	ug/L			03/05/20 20:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/05/20 20:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/05/20 20:24	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/05/20 20:24	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/05/20 20:24	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/05/20 20:24	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/05/20 20:24	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/05/20 20:24	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/05/20 20:24	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/05/20 20:24	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*03/05/20 20:24*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 130*		*03/05/20 20:24*	*1*
4-Bromofluorobenzene (Surr)	*88*		*47 - 134*		*03/05/20 20:24*	*1*
Toluene-d8 (Surr)	*98*		*69 - 122*		*03/05/20 20:24*	*1*
Dibromofluoromethane (Surr)	*100*		*78 - 129*		*03/05/20 20:24*	*1*

Lab Sample ID: LCS 240-425546/5 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 425546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.9		ug/L		100	77 - 120
1,1,1-Trichloroethane	20.0	18.4		ug/L		92	65 - 141
1,1,2,2-Tetrachloroethane	20.0	22.2		ug/L		111	45 - 151
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	20.4		ug/L		102	54 - 148
1,1-Dichloroethane	20.0	19.7		ug/L		99	74 - 126
1,1-Dichloroethene	20.0	19.9		ug/L		99	73 - 129
1,1-Dichloropropene	20.0	20.0		ug/L		100	78 - 120
1,2,3-Trichlorobenzene	20.0	14.8		ug/L		74	42 - 126

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

Lab Sample ID: LCS 240-425546/5 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 425546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	20.0	21.7		ug/L		109	57 - 137
1,2,4-Trichlorobenzene	20.0	12.5		ug/L		63	47 - 120
1,2,4-Trimethylbenzene	20.0	21.1		ug/L		105	66 - 129
1,2-Dibromo-3-Chloropropane	20.0	18.2		ug/L		91	34 - 136
1,2-Dichlorobenzene	20.0	19.2		ug/L		96	74 - 120
1,2-Dichloroethane	20.0	18.6		ug/L		93	66 - 129
1,2-Dichloropropane	20.0	19.2		ug/L		96	79 - 127
1,3-Dichlorobenzene	20.0	19.1		ug/L		95	74 - 120
1,3-Dichloropropane	20.0	19.7		ug/L		99	74 - 122
1,4-Dichlorobenzene	20.0	18.7		ug/L		94	75 - 120
2,2-Dichloropropane	20.0	17.4		ug/L		87	67 - 137
2-Chloroethyl vinyl ether	20.0	17.8		ug/L		89	29 - 146
2-Chlorotoluene	20.0	22.2		ug/L		111	73 - 126
2-Hexanone	40.0	31.4		ug/L		79	43 - 142
Bromobenzene	20.0	19.7		ug/L		99	77 - 120
Bromochloromethane	20.0	17.3		ug/L		87	70 - 128
4-Chlorotoluene	20.0	21.4		ug/L		107	73 - 126
p-Isopropyltoluene	20.0	20.2		ug/L		101	66 - 127
Acetone	40.0	38.1		ug/L		95	33 - 155
Benzene	20.0	20.5		ug/L		102	77 - 123
Bromoform	20.0	16.9		ug/L		84	47 - 133
Bromomethane	20.0	20.6		ug/L		103	48 - 144
Carbon disulfide	20.0	19.4		ug/L		97	67 - 127
Carbon tetrachloride	20.0	18.7		ug/L		93	61 - 142
Chlorobenzene	20.0	20.2		ug/L		101	80 - 120
Chloroethane	20.0	20.0		ug/L		100	41 - 147
Chloroform	20.0	19.9		ug/L		99	74 - 127
Chloromethane	20.0	16.2		ug/L		81	46 - 148
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	75 - 124
cis-1,3-Dichloropropene	20.0	19.3		ug/L		96	68 - 128
Hexachlorobutadiene	20.0	10.2		ug/L		51	40 - 120
Dibromomethane	20.0	16.9		ug/L		84	67 - 121
Bromodichloromethane	20.0	19.5		ug/L		97	73 - 122
Dichlorodifluoromethane	20.0	14.1		ug/L		71	35 - 137
Ethylbenzene	20.0	20.2		ug/L		101	80 - 120
1,2-Dibromoethane	20.0	18.6		ug/L		93	73 - 120
Naphthalene	20.0	16.5		ug/L		82	28 - 130
m-Xylene & p-Xylene	20.0	20.9		ug/L		105	79 - 121
n-Butylbenzene	20.0	18.3		ug/L		92	54 - 129
Isopropylbenzene	20.0	19.8		ug/L		99	73 - 123
n-Propylbenzene	20.0	21.6		ug/L		108	67 - 130
2-Butanone	40.0	36.0		ug/L		90	41 - 151
4-Methyl-2-pentanone	40.0	31.8		ug/L		79	43 - 145
sec-Butylbenzene	20.0	20.3		ug/L		102	60 - 131
Methyl tert-butyl ether	20.0	17.4		ug/L		87	57 - 127
Methylene Chloride	20.0	17.6		ug/L		88	63 - 134
o-Xylene	20.0	20.6		ug/L		103	75 - 123
Styrene	20.0	20.5		ug/L		103	75 - 121
tert-Butylbenzene	20.0	20.4		ug/L		102	63 - 126

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

Lab Sample ID: LCS 240-425546/5 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 425546

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Tetrachloroethene			20.0	18.1		ug/L		90	70 - 125		
Toluene			20.0	20.8		ug/L		104	79 - 122		
trans-1,2-Dichloroethene			20.0	19.4		ug/L		97	74 - 130		
trans-1,3-Dichloropropene			20.0	16.7		ug/L		84	64 - 120		
Trichloroethene			20.0	19.9		ug/L		100	71 - 121		
Trichlorofluoromethane			20.0	17.4		ug/L		87	52 - 148		
Vinyl acetate			20.0	17.5		ug/L		88	44 - 160		
Vinyl chloride			20.0	16.6		ug/L		83	61 - 134		
tert-Butyl alcohol			200	186		ug/L		93	15 - 169		
Xylenes, Total			40.0	41.5		ug/L		104	78 - 122		
Dibromochloromethane			20.0	19.8		ug/L		99	75 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 130*
4-Bromofluorobenzene (Surr)	*93*		*47 - 134*
Toluene-d8 (Surr)	*101*		*69 - 122*
Dibromofluoromethane (Surr)	*97*		*78 - 129*

Lab Sample ID: MB 240-425629/8 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 425629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14	ug/L			03/06/20 12:56	1
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			03/06/20 12:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13	ug/L			03/06/20 12:56	1
1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41	ug/L			03/06/20 12:56	1
1,1-Dichloroethane	1.0	U	1.0	0.17	ug/L			03/06/20 12:56	1
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 12:56	1
1,1-Dichloropropene	1.0	U	1.0	0.14	ug/L			03/06/20 12:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.54	ug/L			03/06/20 12:56	1
1,2,3-Trichloropropane	1.0	U	1.0	0.24	ug/L			03/06/20 12:56	1
1,2,3-Trimethylbenzene	5.0	U	5.0	0.14	ug/L			03/06/20 12:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.26	ug/L			03/06/20 12:56	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.070	ug/L			03/06/20 12:56	1
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91	ug/L			03/06/20 12:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 12:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/06/20 12:56	1
1,2-Dichloropropane	1.0	U	1.0	0.15	ug/L			03/06/20 12:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.15	ug/L			03/06/20 12:56	1
1,3-Dichloropropane	1.0	U	1.0	0.21	ug/L			03/06/20 12:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.16	ug/L			03/06/20 12:56	1
2,2-Dichloropropane	1.0	U	1.0	0.31	ug/L			03/06/20 12:56	1
2-Chloroethyl vinyl ether	10	U	10	0.26	ug/L			03/06/20 12:56	1
2-Chlorotoluene	1.0	U	1.0	0.15	ug/L			03/06/20 12:56	1
2-Hexanone	5.0	U	5.0	0.54	ug/L			03/06/20 12:56	1
Bromobenzene	1.0	U	1.0	0.12	ug/L			03/06/20 12:56	1
Bromochloromethane	1.0	U	1.0	0.14	ug/L			03/06/20 12:56	1

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

Lab Sample ID: MB 240-425629/8 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 425629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	1.0	U	1.0	0.090	ug/L			03/06/20 12:56	1
p-Isopropyltoluene	1.0	U	1.0	0.13	ug/L			03/06/20 12:56	1
Acetone	5.0	U	5.0	5.4	ug/L			03/06/20 12:56	1
Benzene	1.0	U	1.0	0.13	ug/L			03/06/20 12:56	1
Bromoform	1.0	U	1.0	0.76	ug/L			03/06/20 12:56	1
Bromomethane	1.0	U	1.0	0.42	ug/L			03/06/20 12:56	1
Carbon disulfide	1.0	U	1.0	0.28	ug/L			03/06/20 12:56	1
Carbon tetrachloride	1.0	U	1.0	0.26	ug/L			03/06/20 12:56	1
Chlorobenzene	1.0	U	1.0	0.14	ug/L			03/06/20 12:56	1
Chloroethane	1.0	U	1.0	0.83	ug/L			03/06/20 12:56	1
Chloroform	1.0	U	1.0	0.13	ug/L			03/06/20 12:56	1
Chloromethane	1.0	U	1.0	0.20	ug/L			03/06/20 12:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			03/06/20 12:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.61	ug/L			03/06/20 12:56	1
Hexachlorobutadiene	1.0	U	1.0	0.83	ug/L			03/06/20 12:56	1
Dibromomethane	1.0	U	1.0	0.090	ug/L			03/06/20 12:56	1
Bromodichloromethane	1.0	U	1.0	0.17	ug/L			03/06/20 12:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.35	ug/L			03/06/20 12:56	1
Ethylbenzene	1.0	U	1.0	0.11	ug/L			03/06/20 12:56	1
1,2-Dibromoethane	1.0	U	1.0	0.12	ug/L			03/06/20 12:56	1
Diisopropyl ether	5.0	U	5.0	0.17	ug/L			03/06/20 12:56	1
Naphthalene	1.0	U	1.0	0.32	ug/L			03/06/20 12:56	1
m-Xylene & p-Xylene	2.0	U	2.0	0.080	ug/L			03/06/20 12:56	1
n-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 12:56	1
Isopropylbenzene	1.0	U	1.0	0.090	ug/L			03/06/20 12:56	1
n-Propylbenzene	1.0	U	1.0	0.15	ug/L			03/06/20 12:56	1
2-Butanone	5.0	U	5.0	1.2	ug/L			03/06/20 12:56	1
4-Methyl-2-pentanone	5.0	U	5.0	0.42	ug/L			03/06/20 12:56	1
sec-Butylbenzene	1.0	U	1.0	0.13	ug/L			03/06/20 12:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.070	ug/L			03/06/20 12:56	1
Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11	ug/L			03/06/20 12:56	1
Methylene Chloride	5.0	U	5.0	2.6	ug/L			03/06/20 12:56	1
o-Xylene	1.0	U	1.0	0.090	ug/L			03/06/20 12:56	1
Styrene	1.0	U	1.0	0.10	ug/L			03/06/20 12:56	1
Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15	ug/L			03/06/20 12:56	1
tert-Butylbenzene	1.0	U	1.0	0.14	ug/L			03/06/20 12:56	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			03/06/20 12:56	1
Toluene	1.0	U	1.0	0.14	ug/L			03/06/20 12:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			03/06/20 12:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.67	ug/L			03/06/20 12:56	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			03/06/20 12:56	1
Trichlorofluoromethane	1.0	U	1.0	0.45	ug/L			03/06/20 12:56	1
Vinyl acetate	2.0	U	2.0	0.19	ug/L			03/06/20 12:56	1
Vinyl chloride	0.50	U	0.50	0.20	ug/L			03/06/20 12:56	1
tert-Butyl alcohol	20	U	20	1.7	ug/L			03/06/20 12:56	1
Xylenes, Total	2.0	U	2.0	0.15	ug/L			03/06/20 12:56	1
Dibromochloromethane	1.0	U	1.0	0.39	ug/L			03/06/20 12:56	1

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

Lab Sample ID: MB 240-425629/8 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 425629

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	3.84	T J	ug/L		1.58			03/06/20 12:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 130		03/06/20 12:56	1
4-Bromofluorobenzene (Surr)	107		47 - 134		03/06/20 12:56	1
Toluene-d8 (Surr)	93		69 - 122		03/06/20 12:56	1
Dibromofluoromethane (Surr)	112		78 - 129		03/06/20 12:56	1

Lab Sample ID: LCS 240-425629/5 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 425629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	17.9		ug/L		89	77 - 120
1,1,1-Trichloroethane	20.0	21.6		ug/L		108	65 - 141
1,1,2,2-Tetrachloroethane	20.0	21.3		ug/L		107	45 - 151
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	24.4		ug/L		122	54 - 148
1,1-Dichloroethane	20.0	22.0		ug/L		110	74 - 126
1,1-Dichloroethene	20.0	23.1		ug/L		115	73 - 129
1,1-Dichloropropene	20.0	21.0		ug/L		105	78 - 120
1,2,3-Trichlorobenzene	20.0	21.5		ug/L		108	42 - 126
1,2,3-Trichloropropane	20.0	21.1		ug/L		106	57 - 137
1,2,4-Trichlorobenzene	20.0	20.9		ug/L		104	47 - 120
1,2,4-Trimethylbenzene	20.0	21.0		ug/L		105	66 - 129
1,2-Dibromo-3-Chloropropane	20.0	20.4		ug/L		102	34 - 136
1,2-Dichlorobenzene	20.0	21.2		ug/L		106	74 - 120
1,2-Dichloroethane	20.0	21.2		ug/L		106	66 - 129
1,2-Dichloropropane	20.0	22.7		ug/L		114	79 - 127
1,3-Dichlorobenzene	20.0	21.2		ug/L		106	74 - 120
1,3-Dichloropropane	20.0	21.1		ug/L		106	74 - 122
1,4-Dichlorobenzene	20.0	21.3		ug/L		107	75 - 120
2,2-Dichloropropane	20.0	20.4		ug/L		102	67 - 137
2-Chloroethyl vinyl ether	20.0	18.7		ug/L		93	29 - 146
2-Chlorotoluene	20.0	21.2		ug/L		106	73 - 126
2-Hexanone	40.0	38.5		ug/L		96	43 - 142
Bromobenzene	20.0	21.6		ug/L		108	77 - 120
Bromochloromethane	20.0	23.1		ug/L		116	70 - 128
4-Chlorotoluene	20.0	21.4		ug/L		107	73 - 126
p-Isopropyltoluene	20.0	20.7		ug/L		103	66 - 127
Acetone	40.0	45.3		ug/L		113	33 - 155
Benzene	20.0	22.2		ug/L		111	77 - 123
Bromoform	20.0	18.6		ug/L		93	47 - 133
Bromomethane	20.0	17.2		ug/L		86	48 - 144
Carbon disulfide	20.0	21.6		ug/L		108	67 - 127
Carbon tetrachloride	20.0	21.3		ug/L		106	61 - 142
Chlorobenzene	20.0	21.4		ug/L		107	80 - 120
Chloroethane	20.0	24.4		ug/L		122	41 - 147

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

Lab Sample ID: LCS 240-425629/5 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 425629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	20.0	22.1		ug/L		111	74 - 127
Chloromethane	20.0	21.1		ug/L		105	46 - 148
cis-1,2-Dichloroethene	20.0	23.0		ug/L		115	75 - 124
cis-1,3-Dichloropropene	20.0	21.3		ug/L		107	68 - 128
Hexachlorobutadiene	20.0	21.0		ug/L		105	40 - 120
Dibromomethane	20.0	22.5		ug/L		112	67 - 121
Bromodichloromethane	20.0	21.8		ug/L		109	73 - 122
Dichlorodifluoromethane	20.0	19.5		ug/L		97	35 - 137
Ethylbenzene	20.0	20.9		ug/L		104	80 - 120
1,2-Dibromoethane	20.0	21.4		ug/L		107	73 - 120
Naphthalene	20.0	20.5		ug/L		103	28 - 130
m-Xylene & p-Xylene	20.0	21.2		ug/L		106	79 - 121
n-Butylbenzene	20.0	20.4		ug/L		102	54 - 129
Isopropylbenzene	20.0	21.2		ug/L		106	73 - 123
n-Propylbenzene	20.0	20.8		ug/L		104	67 - 130
2-Butanone	40.0	43.1		ug/L		108	41 - 151
4-Methyl-2-pentanone	40.0	42.0		ug/L		105	43 - 145
sec-Butylbenzene	20.0	20.7		ug/L		104	60 - 131
Methyl tert-butyl ether	20.0	19.8		ug/L		99	57 - 127
Methylene Chloride	20.0	21.8		ug/L		109	63 - 134
o-Xylene	20.0	20.7		ug/L		103	75 - 123
Styrene	20.0	18.6		ug/L		93	75 - 121
tert-Butylbenzene	20.0	20.5		ug/L		103	63 - 126
Tetrachloroethene	20.0	22.1		ug/L		111	70 - 125
Toluene	20.0	21.1		ug/L		105	79 - 122
trans-1,2-Dichloroethene	20.0	23.0		ug/L		115	74 - 130
trans-1,3-Dichloropropene	20.0	18.5		ug/L		92	64 - 120
Trichloroethene	20.0	22.6		ug/L		113	71 - 121
Trichlorofluoromethane	20.0	23.5		ug/L		118	52 - 148
Vinyl acetate	20.0	22.4		ug/L		112	44 - 160
Vinyl chloride	20.0	22.8		ug/L		114	61 - 134
tert-Butyl alcohol	200	175		ug/L		87	15 - 169
Xylenes, Total	40.0	41.9		ug/L		105	78 - 122
Dibromochloromethane	20.0	21.2		ug/L		106	75 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 130*
4-Bromofluorobenzene (Surr)	*112*		*47 - 134*
Toluene-d8 (Surr)	*97*		*69 - 122*
Dibromofluoromethane (Surr)	*104*		*78 - 129*

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MSA Surface Water Sampling

Job ID: 240-127107-1

GC/MS VOA

Analysis Batch: 425546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-127107-1	MSA-SW37A-030320	Total/NA	Water	8260C	
240-127107-2	MSA-SW37B-030320	Total/NA	Water	8260C	
240-127107-3	MSA-SW37C-030320	Total/NA	Water	8260C	
240-127107-4	MSA-SW37D-030320	Total/NA	Water	8260C	
240-127107-5	MSA-SW38A-030320	Total/NA	Water	8260C	
240-127107-6	MSA-SW38B-030320	Total/NA	Water	8260C	
240-127107-7	MSA-SW38C-030320	Total/NA	Water	8260C	
240-127107-8	MSA-SW38D-030320	Total/NA	Water	8260C	
240-127107-9	MSA-SW40A-030320	Total/NA	Water	8260C	
240-127107-10	MSA-SW40B-030320	Total/NA	Water	8260C	
240-127107-11	MSA-SW40C-030320	Total/NA	Water	8260C	
240-127107-12	MSA-SW40D-030320	Total/NA	Water	8260C	
240-127107-13	MSA-SW41A-030320	Total/NA	Water	8260C	
240-127107-14	MSA-SW41B-030320	Total/NA	Water	8260C	
240-127107-15	MSA-SW41C-030320	Total/NA	Water	8260C	
MB 240-425546/8	Method Blank	Total/NA	Water	8260C	
LCS 240-425546/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 425629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-127107-16	MSA-SW41D-030320	Total/NA	Water	8260C	
240-127107-17	MSA-SW42A-030320	Total/NA	Water	8260C	
240-127107-18	MSA-SW42B-030320	Total/NA	Water	8260C	
240-127107-19	MSA-SW42C-030320	Total/NA	Water	8260C	
240-127107-20	MSA-SW42D-030320	Total/NA	Water	8260C	
240-127107-21	MSA-SW43A-030320	Total/NA	Water	8260C	
240-127107-22	MSA-SW43B-030320	Total/NA	Water	8260C	
240-127107-23	MSA-SW43C-030320	Total/NA	Water	8260C	
240-127107-24	MSA-SW43D-030320	Total/NA	Water	8260C	
240-127107-25	MSA-SW44A-030320	Total/NA	Water	8260C	
240-127107-26	MSA-SW44B-030320	Total/NA	Water	8260C	
240-127107-27	MSA-SW44C-030320	Total/NA	Water	8260C	
240-127107-28	MSA-SW44D-030320	Total/NA	Water	8260C	
240-127107-29	TB-030320	Total/NA	Water	8260C	
240-127107-30	MSA-SW46A-030320	Total/NA	Water	8260C	
240-127107-31	MSA-SW47A-030320	Total/NA	Water	8260C	
240-127107-32	MSA-SW48A-030320	Total/NA	Water	8260C	
240-127107-33	MSA-SW49A-030320	Total/NA	Water	8260C	
MB 240-425629/8	Method Blank	Total/NA	Water	8260C	
LCS 240-425629/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1
Date Collected: 03/03/20 09:52 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 21:31	TJL1	TAL CAN

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2
Date Collected: 03/03/20 09:55 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 21:54	TJL1	TAL CAN

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3
Date Collected: 03/03/20 09:57 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 22:16	TJL1	TAL CAN

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4
Date Collected: 03/03/20 10:00 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 22:39	TJL1	TAL CAN

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5
Date Collected: 03/03/20 09:03 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 23:02	TJL1	TAL CAN

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6
Date Collected: 03/03/20 09:05 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 23:24	TJL1	TAL CAN

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7
Date Collected: 03/03/20 09:09 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/05/20 23:47	TJL1	TAL CAN

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Date Collected: 03/03/20 09:12 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 00:09	TJL1	TAL CAN

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Date Collected: 03/03/20 09:21 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 00:31	TJL1	TAL CAN

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Date Collected: 03/03/20 09:24 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 00:54	TJL1	TAL CAN

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Date Collected: 03/03/20 09:26 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 01:16	TJL1	TAL CAN

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Date Collected: 03/03/20 09:29 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 01:39	TJL1	TAL CAN

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Date Collected: 03/03/20 08:44 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 02:01	TJL1	TAL CAN

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Date Collected: 03/03/20 08:49 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 02:24	TJL1	TAL CAN

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15
Date Collected: 03/03/20 08:51 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425546	03/06/20 02:46	TJL1	TAL CAN

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16
Date Collected: 03/03/20 08:55 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 15:01	HMB	TAL CAN

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17
Date Collected: 03/03/20 09:40 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 15:25	HMB	TAL CAN

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18
Date Collected: 03/03/20 09:43 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 15:50	HMB	TAL CAN

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19
Date Collected: 03/03/20 09:45 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 16:15	HMB	TAL CAN

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20
Date Collected: 03/03/20 09:48 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 16:40	HMB	TAL CAN

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21
Date Collected: 03/03/20 08:26 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 17:05	HMB	TAL CAN

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Date Collected: 03/03/20 08:30 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 17:30	HMB	TAL CAN

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Date Collected: 03/03/20 09:34 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 17:55	HMB	TAL CAN

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Date Collected: 03/03/20 08:37 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 18:20	HMB	TAL CAN

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Date Collected: 03/03/20 08:06 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 18:45	HMB	TAL CAN

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Date Collected: 03/03/20 08:13 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 19:10	HMB	TAL CAN

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Date Collected: 03/03/20 08:16 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 19:34	HMB	TAL CAN

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Date Collected: 03/03/20 08:19 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 19:59	HMB	TAL CAN

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

Client Sample ID: TB-030320 — Lab Sample ID: 240-127107-29

Date Collected: 03/03/20 00:00 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 20:24	HMB	TAL CAN

Client Sample ID: MSA-SW46A-030320 — Lab Sample ID: 240-127107-30

Date Collected: 03/03/20 09:37 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 20:49	HMB	TAL CAN

Client Sample ID: MSA-SW47A-030320 — Lab Sample ID: 240-127107-31

Date Collected: 03/03/20 09:16 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 21:14	HMB	TAL CAN

Client Sample ID: MSA-SW48A-030320 — Lab Sample ID: 240-127107-32

Date Collected: 03/03/20 08:59 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 21:39	HMB	TAL CAN

Client Sample ID: MSA-SW49A-030320 — Lab Sample ID: 240-127107-33

Date Collected: 03/03/20 08:37 **Matrix: Water**
Date Received: 03/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	425629	03/06/20 22:04	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. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

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	12-31-19 *
Florida	NELAP	E87225	06-30-20
Georgia	State	4062	02-23-20 *
Illinois	NELAP	004498	07-31-20
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-20
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-20
New York	NELAP	10975	03-31-20
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-16-00404	12-28-19 *
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

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. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-127107-1	MSA-SW37A-030320	Water	03/03/20 09:52	03/04/20 09:30	
240-127107-2	MSA-SW37B-030320	Water	03/03/20 09:55	03/04/20 09:30	
240-127107-3	MSA-SW37C-030320	Water	03/03/20 09:57	03/04/20 09:30	
240-127107-4	MSA-SW37D-030320	Water	03/03/20 10:00	03/04/20 09:30	
240-127107-5	MSA-SW38A-030320	Water	03/03/20 09:03	03/04/20 09:30	
240-127107-6	MSA-SW38B-030320	Water	03/03/20 09:05	03/04/20 09:30	
240-127107-7	MSA-SW38C-030320	Water	03/03/20 09:09	03/04/20 09:30	
240-127107-8	MSA-SW38D-030320	Water	03/03/20 09:12	03/04/20 09:30	
240-127107-9	MSA-SW40A-030320	Water	03/03/20 09:21	03/04/20 09:30	
240-127107-10	MSA-SW40B-030320	Water	03/03/20 09:24	03/04/20 09:30	
240-127107-11	MSA-SW40C-030320	Water	03/03/20 09:26	03/04/20 09:30	
240-127107-12	MSA-SW40D-030320	Water	03/03/20 09:29	03/04/20 09:30	
240-127107-13	MSA-SW41A-030320	Water	03/03/20 08:44	03/04/20 09:30	
240-127107-14	MSA-SW41B-030320	Water	03/03/20 08:49	03/04/20 09:30	
240-127107-15	MSA-SW41C-030320	Water	03/03/20 08:51	03/04/20 09:30	
240-127107-16	MSA-SW41D-030320	Water	03/03/20 08:55	03/04/20 09:30	
240-127107-17	MSA-SW42A-030320	Water	03/03/20 09:40	03/04/20 09:30	
240-127107-18	MSA-SW42B-030320	Water	03/03/20 09:43	03/04/20 09:30	
240-127107-19	MSA-SW42C-030320	Water	03/03/20 09:45	03/04/20 09:30	
240-127107-20	MSA-SW42D-030320	Water	03/03/20 09:48	03/04/20 09:30	
240-127107-21	MSA-SW43A-030320	Water	03/03/20 08:26	03/04/20 09:30	
240-127107-22	MSA-SW43B-030320	Water	03/03/20 08:30	03/04/20 09:30	
240-127107-23	MSA-SW43C-030320	Water	03/03/20 09:34	03/04/20 09:30	
240-127107-24	MSA-SW43D-030320	Water	03/03/20 08:37	03/04/20 09:30	
240-127107-25	MSA-SW44A-030320	Water	03/03/20 08:06	03/04/20 09:30	
240-127107-26	MSA-SW44B-030320	Water	03/03/20 08:13	03/04/20 09:30	
240-127107-27	MSA-SW44C-030320	Water	03/03/20 08:16	03/04/20 09:30	
240-127107-28	MSA-SW44D-030320	Water	03/03/20 08:19	03/04/20 09:30	
240-127107-29	TB-030320	Water	03/03/20 00:00	03/04/20 09:30	
240-127107-30	MSA-SW46A-030320	Water	03/03/20 09:37	03/04/20 09:30	
240-127107-31	MSA-SW47A-030320	Water	03/03/20 09:16	03/04/20 09:30	
240-127107-32	MSA-SW48A-030320	Water	03/03/20 08:59	03/04/20 09:30	
240-127107-33	MSA-SW49A-030320	Water	03/03/20 08:37	03/04/20 09:30	

Quantitation Limit Exceptions Summary

Client: Tetra Tech, Inc. Job ID: 240-127107-1
Project/Site: MSA Surface Water Sampling

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260C	2-Butanone	Water	Total/NA	ug/L	5.0	10
8260C	2-Hexanone	Water	Total/NA	ug/L	5.0	10
8260C	4-Methyl-2-pentanone	Water	Total/NA	ug/L	5.0	10
8260C	Acetone	Water	Total/NA	ug/L	5.0	10
8260C	Diisopropyl ether	Water	Total/NA	ug/L	5.0	10
8260C	tert-Butyl alcohol	Water	Total/NA	ug/L	20	40
8260C	Vinyl chloride	Water	Total/NA	ug/L	0.50	1

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Instrument ID: A3UX16 Analysis Batch Number: 421991

Lab Sample ID: STD8260 240-421991/9 IC Client Sample ID:

Date Analyzed: 02/07/20 16:51 Lab File ID: UXM26853.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane		Invalid Compound ID	bosworthh	02/10/20 08:45

Lab Sample ID: STD8260 240-421991/10 I Client Sample ID:

Date Analyzed: 02/07/20 17:16 Lab File ID: UXM26854.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane		Invalid Compound ID	bosworthh	02/10/20 08:46

Lab Sample ID: STD8260 240-421991/11 I Client Sample ID:

Date Analyzed: 02/07/20 17:41 Lab File ID: UXM26855.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane		Invalid Compound ID	bosworthh	02/10/20 08:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Instrument ID: A3UX16 Analysis Batch Number: 421991

Lab Sample ID: STD8260 240-421991/16 I Client Sample ID:

Date Analyzed: 02/07/20 19:45 Lab File ID: UXM26860.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromoform	9.46	Invalid Compound ID	bosworthh	02/10/20 13:06
1,4-Dioxane		Invalid Compound ID	bosworthh	02/10/20 13:02
2-Chloroethyl vinyl ether		Invalid Compound ID	bosworthh	02/10/20 13:03
Acetone		Invalid Compound ID	bosworthh	02/10/20 13:00
Ethyl methacrylate		Invalid Compound ID	bosworthh	02/10/20 13:04
Hexachlorobutadiene		Invalid Compound ID	bosworthh	02/10/20 13:07
Hexane		Invalid Compound ID	bosworthh	02/10/20 13:01
Methylcyclohexane		Invalid Compound ID	bosworthh	02/10/20 13:02
n-Heptane		Invalid Compound ID	bosworthh	02/10/20 13:10
trans-1,4-Dichloro-2-butene		Invalid Compound ID	bosworthh	02/10/20 13:06

Lab Sample ID: STDA9 240-421991/25 IC Client Sample ID:

Date Analyzed: 02/07/20 23:28 Lab File ID: UXM26869.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methylnaphthalene		Invalid Compound ID	bosworthh	02/10/20 13:23
2-Nitropropane		Invalid Compound ID	bosworthh	02/10/20 13:22
Cyclohexanone		Invalid Compound ID	bosworthh	02/10/20 13:23
Ethyl acetate		Invalid Compound ID	bosworthh	02/10/20 13:20
Ethyl acrylate		Invalid Compound ID	bosworthh	02/10/20 13:21
Isooctane		Invalid Compound ID	bosworthh	02/10/20 13:21
Methacrylonitrile		Invalid Compound ID	bosworthh	02/10/20 13:21
Methyl methacrylate		Invalid Compound ID	bosworthh	02/10/20 13:22
n-Butanol		Invalid Compound ID	bosworthh	02/10/20 08:51
n-Butyl acetate		Invalid Compound ID	bosworthh	02/10/20 13:22
Tert-amyl-methyl ether (TAME)		Invalid Compound ID	bosworthh	02/10/20 13:21

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Instrument ID: A3UX16 Analysis Batch Number: 425629

Lab Sample ID: 240-127107-24 Client Sample ID: MSA-SW43D-030320

Date Analyzed: 03/06/20 18:20 Lab File ID: UXM27194.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane		Invalid Compound ID	bosworthh	03/09/20 09:39

Lab Sample ID: 240-127107-26 Client Sample ID: MSA-SW44B-030320

Date Analyzed: 03/06/20 19:10 Lab File ID: UXM27196.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	bosworthh	03/09/20 09:42

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Instrument ID: A3UX19 Analysis Batch Number: 337766

Lab Sample ID: STD8260 240-337766/13 I Client Sample ID:

Date Analyzed: 07/24/18 20:04 Lab File ID: U1900794.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	07/25/18 10:11
Acetone		Invalid Compound ID	laveyt	07/25/18 09:52
Bromoform		Invalid Compound ID	laveyt	07/25/18 09:54
Methylene Chloride		Invalid Compound ID	laveyt	07/25/18 09:52
n-Heptane		Invalid Compound ID	laveyt	07/25/18 09:54
tert-Butyl alcohol		Invalid Compound ID	laveyt	07/25/18 09:53
1,3-Dichlorobenzene	10.81	Peak assignment corrected	laveyt	07/25/18 09:51

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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.: 240-127107-1

SDG No.:

Instrument ID: A3UX19 Analysis Batch Number: 425546

Lab Sample ID: 240-127107-8 Client Sample ID: MSA-SW38D-030320

Date Analyzed: 03/06/20 00:09 Lab File ID: U1913221.d GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone		Invalid Compound ID	laveyt	03/06/20 12:54

Lab Sample ID: 240-127107-13 Client Sample ID: MSA-SW41A-030320

Date Analyzed: 03/06/20 02:01 Lab File ID: U1913226.d GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	laveyt	03/06/20 12:56

Lab Sample ID: 240-127107-14 Client Sample ID: MSA-SW41B-030320

Date Analyzed: 03/06/20 02:24 Lab File ID: U1913227.d GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Hexanone		Invalid Compound ID	laveyt	03/06/20 12:57

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_A_00004	06/07/20	12/07/19	MEOH, Lot 230446	50 mL	vm30241_00007	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 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_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_00006	08/06/20	02/06/20	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
vm50ss_00329	07/27/18	07/20/18	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_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_00390	02/12/20	02/05/20	MEOH, Lot na	5 mL	vm50ss_stk_00083	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.vm50ss_stk_00083	06/24/20	12/24/19	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_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_00082	03/18/20	09/18/19	MEOH, Lot 0000198123	200 mL	VM567650_00031	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_00031	11/30/22		Restek, Lot A0132615		(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_00083	06/24/20	12/24/19	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
vmarolistdw_00256	07/26/18	07/19/18	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_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_00332	02/11/20	02/04/20	MEOH, Lot na	5 mL	VMACROLSTD_00080	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00080	02/27/20	01/27/20	MEOH, Lot 0000230446	20 mL	VM568720_00037	0.25 mL	Acrolein	250 ug/mL
..VM568720_00037	04/30/21		restek, Lot A0154578		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00335	03/06/20	02/28/20	MEOH, Lot na	5 mL	VMACROLSTD_00081	5 mL	Acrolein	250 ug/mL
.VMACROLSTD_00081	03/28/20	02/28/20	MEOH, Lot 0000230446	20 mL	VM568720_00037	0.25 mL	Acrolein	250 ug/mL
..VM568720_00037	04/30/21		restek, Lot A0154578		(Purchased Reagent)		Acrolein	20000 ug/mL
vmbfb_00020							1,2-Dichloroethene, Total	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropene, Total	
							Isopropyl Alcohol	
							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_00024							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Isopropyl Alcohol	
							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_00194	07/26/18	07/19/18	MEOH, Lot NA	4 mL	VMFASA9_00013	4 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_00013	09/30/18	05/01/18	MEOH, Lot 0000177891	100 mL	VM569727S_00002	2 mL	Cyclohexanone	500 ug/mL
					vm570806S_00003	4 mL	Pentachloroethane	100 ug/mL
					vm570807S_00003	4 mL	2-Methylnaphthalene	100 ug/mL
					VM570808S_00004	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809S_00004	2 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993S_00002	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_00002	10/31/20		RESTEK, Lot A0131573		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570806S_00003	03/31/22		Restek, Lot A0126373		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807S_00003	04/30/22		Restek, Lot A0126553		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808S_00004	09/30/18		Restek, Lot A0126195		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitropropane	5000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809S_00004	10/31/18		Restek, Lot A0126533		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
..VM571993S_00002	12/31/18		restek, Lot A0123771		(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
VMFASA9W_00264	02/14/20	02/07/20	MEOH, Lot NA	5 mL	VMFASA9_00019	5 mL	Cyclohexanone	500 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							2-Chloro-1,3-butadiene	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_00019	04/30/20	12/18/19	MEOH, Lot 0000230446	100 mL	VM569727S_00002	2 mL	Cyclohexanone	500 ug/mL
					vm570807S_00005	4 mL	2-Methylnaphthalene	100 ug/mL
					VM570808S_00007	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809S_00007	2 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993S_00005	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_00002	10/31/20		RESTEK, Lot A0131573		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..vm570807S_00005	04/30/22		Restek, Lot A0126553		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808S_00007	05/31/20		Restek, Lot A0143097		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809S_00007	04/30/20		Restek, Lot A0142413		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..VM571993S_00005	06/30/20		restek, Lot A0139245		(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
VMFASAW_00315	02/07/20	01/31/20	MEOH, Lot NA	5 mL	VMFASA_00061	5 mL	Acrolein	250 ug/mL
.VMFASA_00061	04/30/20	01/31/20	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
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_00345	02/07/20	01/31/20	MEOH, Lot NA	5 mL	VMFASG_00091	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_00091	02/29/20	01/31/20	MEOH, Lot 0000230446	100 mL	vm569722S_00006	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_00006	12/31/20		Restek, Lot A0133344		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	2500 ug/mL
VMFASGW_00349	03/09/20	03/02/20	MEOH, Lot NA	5 mL	VMFASG_00092	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_00092	04/02/20	03/02/20	MEOH, Lot 0000230446	100 mL	vm569722S_00006	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_00006	12/31/20		Restek, Lot A0133344		(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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00337	02/07/20	01/31/20	MEOH, Lot n/a	5 mL	VMRFASP_00064	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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-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
							p-Isopropyltoluene	50 ug/mL

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00064	03/31/20	01/31/20	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_00026	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00005	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00026	03/31/20		Restek, Lot A0153375		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00005	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00341	03/11/20	03/04/20	MEOH, Lot n/a	5 mL	VMRFASP_00064	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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
							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
.VMRFASP_00064	03/31/20	01/31/20	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_00026	1 mL	Vinyl acetate	50 ug/mL
					VM571992S_00005	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
..VM569721S_00005	12/31/20		Restek, Lot A0133078		(Purchased Reagent)		2-Butanone	12500 ug/mL
							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_00026	03/31/20		Restek, Lot A0153375		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..VM571992S_00005	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Ethyl-t-butyl ether (ETBE)	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl-methyl ether (TAME)	2500 ug/mL
VMRA9W_00332	02/11/20	02/04/20	MEOH, Lot NA	5 mL	VMRA9_00029	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_00029	05/07/20	11/07/19	MEOH, Lot +2210000002304 46J+	50 mL	VM569727_00004	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00004	2 mL	Pentachloroethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					vm570807_00004	2 mL	1-Methylnaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
					VM570808_00005	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_00006	1 mL	Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butyl acetate	50 ug/mL
					VM571993_00003	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_00004	04/30/22		Restek, Lot A0126447		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00004	02/28/22		Restek, Lot A0125050		(Purchased Reagent)		1-Methylnaphthalene	2500 ug/mL
							2-Methylnaphthalene	2500 ug/mL
..VM570808_00005	07/31/20		Restek, Lot A0145375		(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_00006	05/31/20		Restek, Lot A0143198		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
..VM571993_00003	07/31/20		restek, Lot A0139911		(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_00335	03/06/20	02/28/20	MEOH, Lot NA	5 mL	VMRA9_00029	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	50 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
.VMRA9_00029	05/07/20	11/07/19	MEOH, Lot +221000000230446J+	50 mL	VM569727_00004	1 mL	Cyclohexanone	500 ug/mL
					vm570806_00004	2 mL	Pentachloroethane	100 ug/mL
					vm570807_00004	2 mL	2-Methylnaphthalene	100 ug/mL
					VM570808_00005	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Benzyl chloride	50 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					VM570809_00006	1 mL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					VM571993_00003	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_00004	04/30/22		Restek, Lot A0126447		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
..vm570807_00004	02/28/22		Restek, Lot A0125050		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
..VM570808_00005	07/31/20		Restek, Lot A0145375		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
..VM570809_00006	05/31/20		Restek, Lot A0143198		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
..VM571993_00003	07/31/20		restek, Lot A0139911		(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_00255	07/30/18	07/23/18	MEOH, Lot 0000196626	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
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
vmrgas_00326	02/14/20	02/07/20	MEOH, Lot 0000230446	10 mL	vm569722_00014	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_00014	03/31/22		Restek, Lot A0146651		(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_00329	03/09/20	03/02/20	MEOH, Lot 0000230446	10 mL	vm569722_00014	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.vm569722_00014	03/31/22		Restek, Lot A0146651		(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_00292	07/26/18	07/19/18	MEOH, Lot NA	4 mL	VMRPRIM_00028	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
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00028	07/29/18	04/29/18	MEOH, Lot 0000177891	50 mL	VM569721_00002	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_00003	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00014	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
							1,1,2-Trichloro-1,2,2-trichfluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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
							1,3,5-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
							Methyl acetate	100 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00002	08/31/18		Restek, Lot A0113194		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
..VM569723_00003	07/31/18		restek, Lot A0112895		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00014	07/31/18		Restek, Lot A0134268		(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
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
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
							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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
vmrprimw_00372	02/29/20	01/31/20	MEOH, Lot NA	5 mL	VMRPRIM_00043	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00043	02/29/20	01/31/20	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_00007	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00022	0.5 mL	Vinyl acetate	50 ug/mL
					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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00007	12/31/20		restek, Lot A0133302		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724_00022	02/29/20		Restek, Lot A0152359		(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
							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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
VMRPRIMW_00376	03/09/20	03/02/20	MEOH, Lot NA	5 mL	VMRPRIM_00044	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00044	04/30/20	03/02/20	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_00023	0.5 mL	Vinyl acetate	50 ug/mL
					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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
..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_00023	04/30/20		Restek, Lot A0154581		(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-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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

Reagent

vm30026_00002

Rec: 4/11/17 (5)

VM30026-00002

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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. : 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

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

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. : 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)

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

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. : 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

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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	2,521.2 µg/mL	+/- 14.6582	µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 0012016)		+/- 141.3584	µg/mL	Unstressed
	Purity 99%		+/- 144.6660	µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,513.8 µg/mL	+/- 14.6157	µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-25433)		+/- 140.9489	µg/mL	Unstressed
	Purity 98%		+/- 144.2469	µg/mL	Stressed
3	Toluene-d8	2,519.4 µg/mL	+/- 14.6480	µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-27311)		+/- 141.2603	µg/mL	Unstressed
	Purity 99%		+/- 144.5656	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,520.8 µg/mL	+/- 14.6559	µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KOV)		+/- 141.3360	µg/mL	Unstressed
	Purity 99%		+/- 144.6430	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM567650_00031

Rec: 10/26/18
VM567650_00031

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 567650 **Lot No.:** A0132615

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, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,500.2 µg/mL	+/- 14.5364	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 0012017)		+/- 140.1837	µg/mL	Unstressed
	Purity 99.8%			+/- 143.4639	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,500.2 µg/mL	+/- 14.5361	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot PR-26748)		+/- 140.1809	µg/mL	Unstressed
	Purity 99%			+/- 143.4610	µg/mL	Stressed
3	Toluene-d8		2,500.2 µg/mL	+/- 14.5364	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot PR-26623)		+/- 140.1837	µg/mL	Unstressed
	Purity 99%			+/- 143.4639	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,500.3 µg/mL	+/- 14.5370	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 20401KOV)		+/- 140.1893	µg/mL	Unstressed
	Purity 99%			+/- 143.4696	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM568720_00028

rec: 6/1/18

VM568720-00028

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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_00037

Rec: 1/16/20 VM568720_00037

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ilac-MRA

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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. : 568720 **Lot No.:** A0154578

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			19,810.7	µg/mL	+/-	115.9958	µg/mL	Gravimetric
	CAS #	107-02-8	(Lot D0012019410)			+/-	395.7642	µg/mL	Unstressed
	Purity	99%				+/-	887.8866	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

VM568720S_00026

Rec'd 6/1/18

VM5687205-00026

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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 VM568720.SEC — 000396

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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. : 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_00002

VM569721_00002 Rec: 9/16/15

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

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. : 569721 **Lot No.:** A0113194

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 : August 31, 2018 **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 **Purity** 99%	(Lot 07196AK)	12,510.0 µg/mL	+/- 73.2488 µg/mL +/- 665.8110 µg/mL +/- 666.5452 µg/mL		Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3 **Purity** 99%	(Lot BCBK4358V)	12,527.5 µg/mL	+/- 73.3513 µg/mL +/- 666.7424 µg/mL +/- 667.4776 µg/mL		Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1 **Purity** 99%	(Lot SHBF5332V)	12,503.0 µg/mL	+/- 73.2078 µg/mL +/- 665.4385 µg/mL +/- 666.1722 µg/mL		Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6 **Purity** 99%	(Lot MKBN7380V)	12,509.0 µg/mL	+/- 73.2429 µg/mL +/- 665.7578 µg/mL +/- 666.4919 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Reagent

VM569721_00004

Rec: 1-25-17

VM569721-00004

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

Certificate of Analysis

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. : 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

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA

A2LA 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. : 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

VM569721S_00003

Rec: 7/12/16 (20)
VM569721S-00003

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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. : 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

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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

vm569722_00011

Rec: 4/17/18

VM569722_00011

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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)

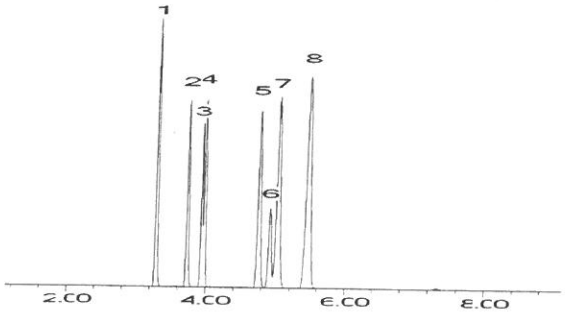
Carrier Gas:
helium-constant flow 2.0 mL/min.

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
Registered Quality System
Certificate #FM 80397

Reagent

vm569722_00014

Rec: 9/9/19

VM569722-00014

Sam 9/17/19

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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 **Lot No.:** A0146651

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, 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%	2,500.2 µg/mL	+/- 19.5056 µg/mL +/- 140.7858 µg/mL +/- 144.0522 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 (Lot SHBJ6334) **Purity** 99%	2,501.5 µg/mL	+/- 20.4136 µg/mL +/- 140.9867 µg/mL +/- 144.2520 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 (Lot 00012557) **Purity** 99%	2,502.6 µg/mL	+/- 19.3699 µg/mL +/- 140.9018 µg/mL +/- 144.1719 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 (Lot SHBK2299) **Purity** 99%	2,502.4 µg/mL	+/- 21.0409 µg/mL +/- 141.1253 µg/mL +/- 144.3895 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 (Lot 101604) **Purity** 99%	2,501.9 µg/mL	+/- 18.1039 µg/mL +/- 140.6930 µg/mL +/- 143.9660 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 (Lot 107-401039114-1) **Purity** 99%	2,498.4 µg/mL	+/- 18.1959 µg/mL +/- 140.5102 µg/mL +/- 143.7782 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 (Lot 7978700) **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)		2,505.7	µg/mL	+/-	19.3191	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBH4155V)			+/-	141.0656	µg/mL	Unstressed
	Purity 99%				+/-	144.3399	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)

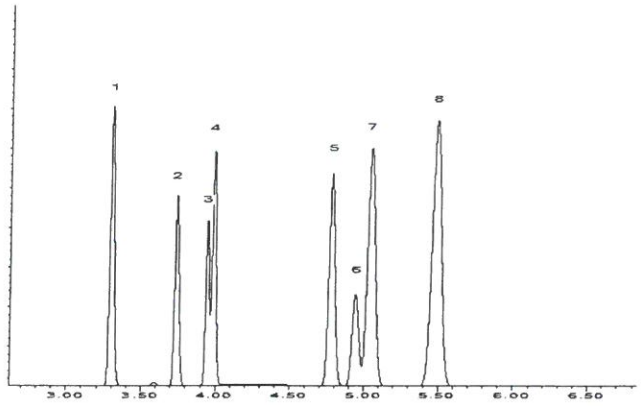
Carrier Gas:
helium-constant pressure 30 psi

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: 05-Mar-2019 **Balance:** B707717271

John Lidgett - AD Chemist

Date Passed: 12-Mar-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

vm569722S_00004

VM569722S-00004 Rec'd 7/12/16 (20)

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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)

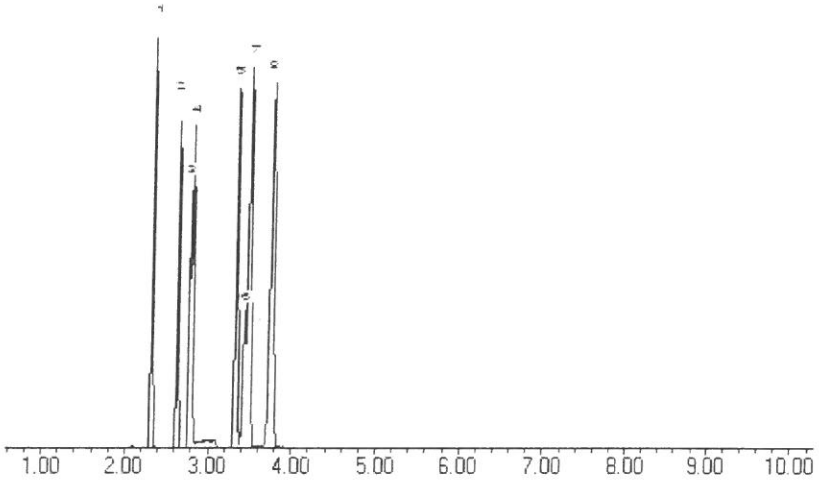
Carrier Gas:
helium-constant flow 2.0 mL/min.

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_00006

Rec: 6/15/18 20 vials

VM569722S-00006

RESTEK®

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 569722.SEC **Lot No.:** A0133344

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 : 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	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
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,521.6 µg/mL	+/- 17.0984 µg/mL +/- 141.6588 µg/mL +/- 144.9608 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,502.2 µg/mL	+/- 18.3289 µg/mL +/- 140.7354 µg/mL +/- 144.0080 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 24033) **Purity** 99%	2,513.3 µg/mL	+/- 16.7862 µg/mL +/- 141.1580 µg/mL +/- 144.4497 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot Q119-46) **Purity** 99%	2,524.8 µg/mL	+/- 22.7878 µg/mL +/- 142.6298 µg/mL +/- 145.9179 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,515.6 µg/mL	+/- 20.9811 µg/mL +/- 141.8493 µg/mL +/- 145.1315 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 24186) **Purity** 99%	2,509.0 µg/mL	+/- 17.4430 µg/mL +/- 141.0029 µg/mL +/- 144.2872 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,497.4	µg/mL	+/-	22.1815	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	141.0261	µg/mL	Unstressed
	Purity 99%				+/-	144.2798	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)

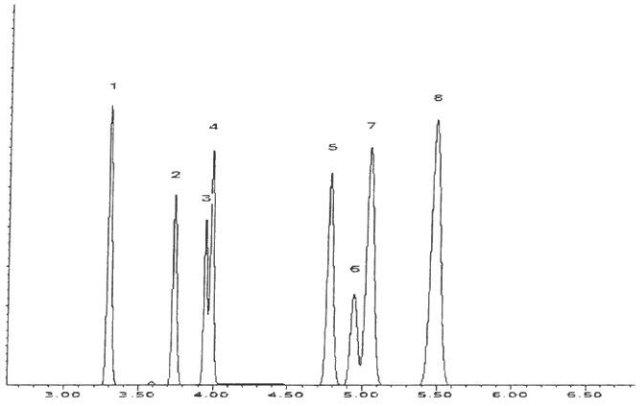
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Lane Kibe - Mix Technician

Date Mixed: 14-Dec-2017 **Balance:** 1128342314

Justine Albertson - Operations Tech-ARM QC

Date Passed: 20-Dec-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

VM569723_00003

VM 569723-00003 Rec'd 11/12/15

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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 **Lot No.:** A0112895

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 : July 31, 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	2,503.2 µg/mL	+/- 14.6902	µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBK2735V)		+/- 53.1239	µg/mL	Unstressed
	Purity 99%		+/- 53.3593	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

VM569723_00004

VM569723-00004 Rec: 5/16/16 (20)

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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 **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_00007

Rec: 12/4/18

vm569723_00007

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 569723 **Lot No.:** A0133302

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 : 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	2-Chloroethyl vinyl ether	2,511.5 µg/mL	+/- 14.7391	µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBS6526V)		+/- 53.8098	µg/mL	Unstressed
	Purity 98%		+/- 55.3720	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

VM569723_00008

Rec: 9/9/19
VM569723-00008

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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. : 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)

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO Guide 34 Accredited Reference Material Producer Certificate #3222.01

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. : 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

RESTEK® **CERTIFIED REFERENCE MATERIAL**

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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. : 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

VM569724_00014

Rec'd 4/17/18 VM569724_00014

RESTEK

CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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. : 569724 **Lot No.:** A0134268

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, 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	5,014.0 µg/mL	+/- 29.3581	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBD7333V)		+/- 302.5368	µg/mL	Unstressed
	Purity 99%		+/- 303.2550	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_00016

VM569724_ 05016 Rcd: 7/13/18

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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. : 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_00022

Acc: 10/3/19

VM569724_00022

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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. : 569724 **Lot No.:** A0152359

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 : February 29, 2020 **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	5,041.0 µg/mL	+/- 29.5162	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBD7333V)		+/- 304.1659	µg/mL	Unstressed
	Purity 99%		+/- 304.8880	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_00023

Rec 2/13/20 VMS69724_00023

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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. : 569724 **Lot No.:** A0154581

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 : April 30, 2020 **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 **CAS #** 108-05-4 **Purity** 99% (Lot 192709KJ)	5,046.0 µg/mL	+/- 29.6128 µg/mL +/- 304.4742 µg/mL +/- 305.1969 µg/mL		Gravimetric Unstressed 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_00019

Rcvd: 7/13/18

VM5697245_00019

RESTEK

CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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. : 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_00026

VM569724S - 00026 Rec: 10/3/19

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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. : 569724.SEC **Lot No.:** A0153375

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 : March 31, 2020 **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	5,004.7 µg/mL	+/- 29.3702	µg/mL	Gravimetric
	CAS # 108-05-4.SEC (Lot 190320CGKJ)		+/- 301.9801	µg/mL	Unstressed
	Purity 99%		+/- 302.6969	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

VM569727_00002

VM569727_00002 Rec: 11/29/16 (10)

RESTEK®

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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
VM569727_00004
(10)

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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. : 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

VM569727S_00002

VM569727S-00002 Rec: 1/11/18

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ilac-MRA

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

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. : 569727.SEC **Lot No.:** A0131573

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 : October 31, 2020 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Cyclohexanone	24,978.0 µg/mL	+/- 146.2517	µg/mL	Gravimetric
	CAS # 108-94-1.SEC (Lot ZEHPG)		+/- 1,507.1328	µg/mL	Unstressed
	Purity 99%		+/- 1,510.7105	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Reagent

vm570806_00003

VM570806-00003 Rec: 12/1/17

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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. : 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_00004

VMS70806_00004 Rec: 6/15/19 10 Vials

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

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. : 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

vm570806S_00003

Rec: 12/1/17
VM5708065-00003

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

A2LA ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

A2LA 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. : 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

vm570807_00003

VM570807_00003
Rec: 12/1/17

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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. : 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_00004

Rec: 6/15/18 10 Vials

VM570807_00004

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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 **CAS #** 91-57-6 (Lot STBF0201V) **Purity** 95%	2,511.8 µg/mL	+/- 14.7406 µg/mL +/- 140.8484 µg/mL +/- 144.1434 µg/mL		Gravimetric Unstressed Stressed
2	1-Methylnaphthalene **CAS #** 90-12-0 (Lot 523400-9) **Purity** 98%	2,514.2 µg/mL	+/- 14.7547 µg/mL +/- 140.9824 µg/mL +/- 144.2806 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807S_00003

VM 570807S-00003 Rcc 12/1/17

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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 **CAS #** 91-57-6.SEC (Lot 76023-1) **Purity** 98%	2,451.0 µg/mL	+/- 14.3837 µg/mL +/- 137.4379 µg/mL +/- 140.6532 µg/mL	Gravimetric Unstressed Stressed
2	1-Methylnaphthalene **CAS #** 90-12-0.SEC (Lot UATSA) **Purity** 97%	2,507.5 µg/mL	+/- 14.7151 µg/mL +/- 140.6045 µg/mL +/- 143.8938 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

vm570807S_00005

VMS70807S-00005

Rec: 12/4/18

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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

VM570808_00004

VM570808_00004 Rec: 1/11/18

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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)

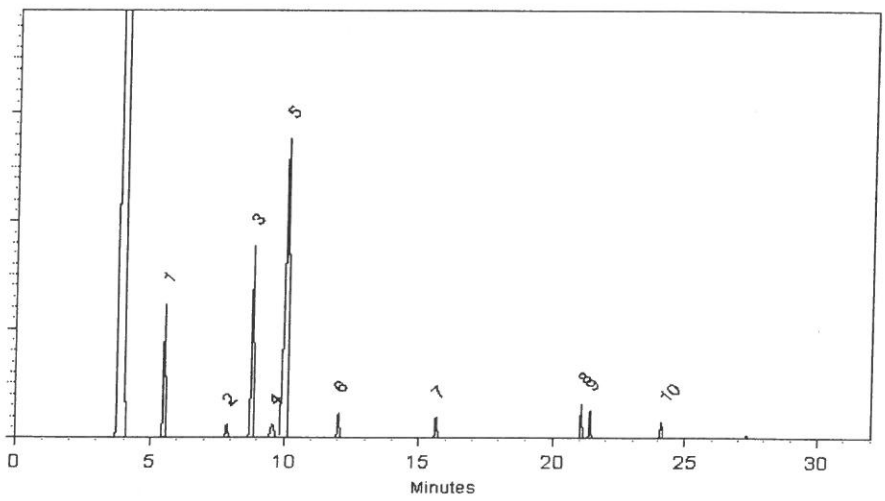
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

VM570808_00005

Rec: 4-9-19
VMS70808_00005

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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. : 570808 **Lot No.:** A0145375

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 : July 31, 2020 **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)		25,151.3 µg/mL	+/- 147.2666 µg/mL		Gravimetric
	CAS # 67-63-0	(Lot SHBH7211)		+/- 1,244.3044 µg/mL		Unstressed
	Purity 99%			+/- 1,275.2391 µg/mL		Stressed
2	Chloroprene (2-chloro-1,3-butadiene)		2,508.0 µg/mL	+/- 14.7183 µg/mL		Gravimetric
	CAS # 126-99-8	(Lot 180921JLM)		+/- 124.0815 µg/mL		Unstressed
	Purity 99%			+/- 127.1661 µg/mL		Stressed
3	Methacrylonitrile		25,161.0 µg/mL	+/- 147.3232 µg/mL		Gravimetric
	CAS # 126-98-7	(Lot 1012014)		+/- 1,244.7826 µg/mL		Unstressed
	Purity 99%			+/- 1,275.7292 µg/mL		Stressed
4	2,2,4-Trimethylpentane (isooctane)		2,510.3 µg/mL	+/- 14.7320 µg/mL		Gravimetric
	CAS # 540-84-1	(Lot SHBF8066V)		+/- 124.1969 µg/mL		Unstressed
	Purity 99%			+/- 127.2844 µg/mL		Stressed
5	1-Butanol		62,638.0 µg/mL	+/- 366.7403 µg/mL		Gravimetric
	CAS # 71-36-3	(Lot SHBK1866)		+/- 3,098.8687 µg/mL		Unstressed
	Purity 99%			+/- 3,175.9100 µg/mL		Stressed
6	2-Nitropropane		5,032.0 µg/mL	+/- 29.4633 µg/mL		Gravimetric
	CAS # 79-46-9	(Lot BCBL0537V)		+/- 248.9453 µg/mL		Unstressed
	Purity 98%			+/- 255.1343 µg/mL		Stressed
7	1-Chlorohexane		2,510.4 µg/mL	+/- 14.7326 µg/mL		Gravimetric
	CAS # 544-10-5	(Lot 05107LK)		+/- 124.2019 µg/mL		Unstressed
	Purity 98%			+/- 127.2895 µg/mL		Stressed

8	1,2,3-Trimethylbenzene		2,514.7	µg/mL	+/-	14.7576	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 877605-12)			+/-	124.4120	µg/mL	Unstressed
	Purity 98%				+/-	127.5048	µg/mL	Stressed
9	Benzyl chloride		2,516.7	µg/mL	+/-	14.7692	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBB7346V)			+/-	124.5103	µg/mL	Unstressed
	Purity 99%				+/-	127.6055	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,513.3	µg/mL	+/-	14.7496	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	124.3454	µg/mL	Unstressed
	Purity 99%				+/-	127.4365	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

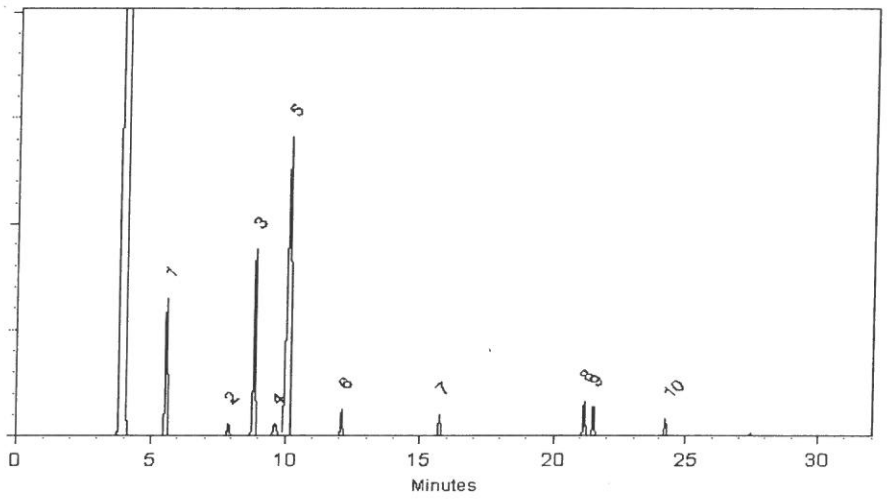
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cheryl Graham - Mix Technician

Date Mixed: 27-Jan-2019 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 29-Jan-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM570808S_00004

VM570808S-00004 Rec 10/27/17

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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. : 570808.SEC **Lot No.:** A0126195

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2500-62500 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 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-Propanol (isopropanol) **CAS #** 67-63-0.SEC (Lot NWVYK) **Purity** 98%	25,010.4 µg/mL	+/- 146.4413 µg/mL +/- 1,237.3312 µg/mL +/- 1,268.0926 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 * (Lot 170113JLM) **Purity** 99%	2,519.6 µg/mL	+/- 14.7864 µg/mL +/- 124.6554 µg/mL +/- 127.7543 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 * (Lot 1012014) **Purity** 99%	25,013.6 µg/mL	+/- 146.4601 µg/mL +/- 1,237.4903 µg/mL +/- 1,268.2556 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (Isooctane) **CAS #** 540-84-1.SEC (Lot 4597900) **Purity** 99%	2,502.4 µg/mL	+/- 14.6855 µg/mL +/- 123.8044 µg/mL +/- 126.8822 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3.SEC (Lot QBO2D) **Purity** 99%	62,532.0 µg/mL	+/- 366.1197 µg/mL +/- 3,093.6246 µg/mL +/- 3,170.5355 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9.SEC (Lot 6M3NJ) **Purity** 98%	5,012.9 µg/mL	+/- 29.3516 µg/mL +/- 248.0015 µg/mL +/- 254.1671 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5.SEC (Lot 3890000) **Purity** 98%	2,507.6 µg/mL	+/- 14.7161 µg/mL +/- 124.0629 µg/mL +/- 127.1470 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene **CAS #** 526-73-8.SEC **Purity** 96%	(Lot 5602500)	2,505.6 µg/mL	+/- 14.7043 +/- 123.9628 +/- 127.0444	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride **CAS #** 100-44-7.SEC **Purity** 99%	(Lot H29N03)	2,506.4 µg/mL	+/- 14.7090 +/- 124.0023 +/- 127.0850	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene **CAS #** 108-70-3.SEC **Purity** 99%	(Lot I28U021)	2,504.0 µg/mL	+/- 14.6949 +/- 123.8836 +/- 126.9633	µg/mL µg/mL µg/mL	Gravimetric Unstressed 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)

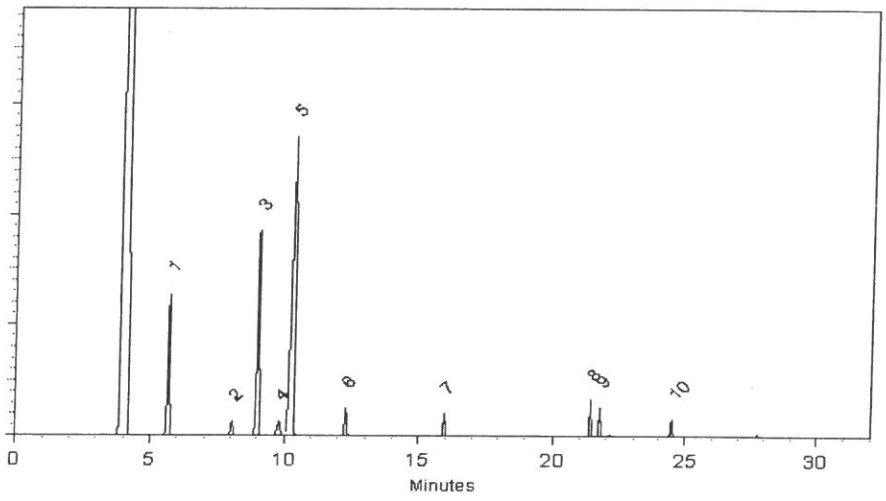
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Brandon Reish - Mix Technician **Date Mixed:** 27-Mar-2017 **Balance:** 1127510105

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 29-Mar-2017

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

Reagent

VM570808S_00007

Rec: 6/19/19
VM5708085-00007

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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. : 570808.SEC **Lot No.:** A0143097

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, 2020 **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%	25,047.5 µg/mL	+/- 146.6586 µg/mL +/- 1,239.1674 µg/mL +/- 1,269.9744 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) **CAS #** 126-99-8 * (Lot 180921JLM) **Purity** 99%	2,509.0 µg/mL	+/- 14.7242 µg/mL +/- 124.1310 µg/mL +/- 127.2168 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile **CAS #** 126-98-7 * (Lot 1012014) **Purity** 99%	25,031.0 µg/mL	+/- 146.5620 µg/mL +/- 1,238.3511 µg/mL +/- 1,269.1379 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (Isooctane) **CAS #** 540-84-1.SEC (Lot 4597900) **Purity** 99%	2,513.5 µg/mL	+/- 14.7506 µg/mL +/- 124.3536 µg/mL +/- 127.4450 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol **CAS #** 71-36-3.SEC (Lot TOY3I) **Purity** 99%	62,799.0 µg/mL	+/- 367.6830 µg/mL +/- 3,106.8338 µg/mL +/- 3,184.0731 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane **CAS #** 79-46-9.SEC (Lot 6M3NJ) **Purity** 98%	5,003.9 µg/mL	+/- 29.2988 µg/mL +/- 247.5555 µg/mL +/- 253.7099 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane **CAS #** 544-10-5.SEC (Lot 3890000) **Purity** 98%	2,501.9 µg/mL	+/- 14.6828 µg/mL +/- 123.7817 µg/mL +/- 126.8588 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene **CAS #** 526-73-8.SEC **Purity** 97%	(Lot 7754800)	2,512.3 µg/mL	+/- 14.7436 +/- 124.2942 +/- 127.3841	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride **CAS #** 100-44-7.SEC **Purity** 99%	(Lot H29N03)	2,501.0 µg/mL	+/- 14.6773 +/- 123.7352 +/- 126.8112	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene **CAS #** 108-70-3.SEC **Purity** 99%	(Lot I28U021)	2,506.5 µg/mL	+/- 14.7095 +/- 124.0073 +/- 127.0900	µg/mL µg/mL µg/mL	Gravimetric Unstressed 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)

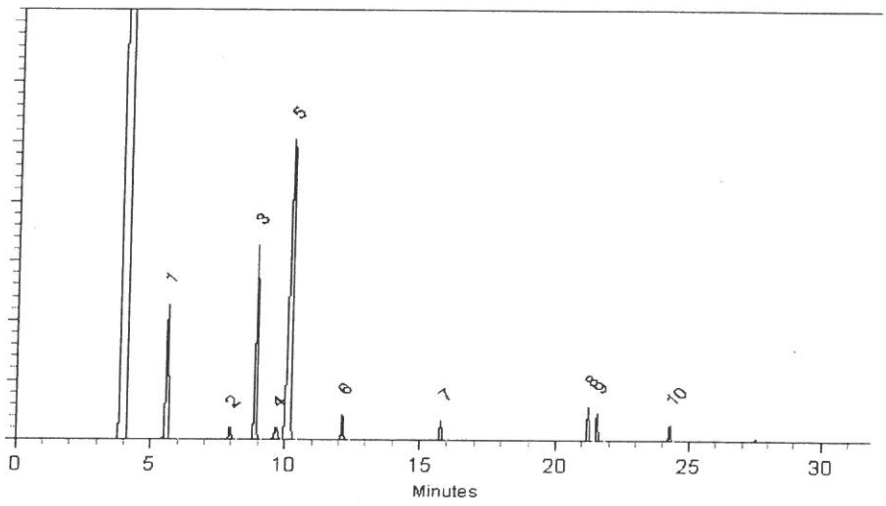
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Matt Fragassi - Mix Technician

Date Mixed: 08-Nov-2018 **Balance:** 1128342314

Diane Shaffer - Operations Tech-ARM QC

Date Passed: 13-Nov-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

VM570809_00005

Rec: 1/11/18
V M570809_00005

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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_00006

Rec: 4/9/19
VM570809_00006

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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. : 570809 **Lot No.:** A0143198

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 : May 31, 2020 **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 **Purity** 99%	(Lot SHBJ7347)	5,022.5 µg/mL	+/- 29.4078 µg/mL +/- 303.0497 µg/mL +/- 303.7691 µg/mL		Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5 **Purity** 99%	(Lot 10129902)	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 **Purity** 99%	(Lot MKBH4379V)	5,019.5 µg/mL	+/- 29.3903 µg/mL +/- 302.8686 µg/mL +/- 303.5876 µg/mL		Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4 **Purity** 99%	(Lot SHBJ2076)	2,507.0 µg/mL	+/- 14.7125 µg/mL +/- 151.2716 µg/mL +/- 151.6307 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM570809S_00004

VM570809S-00004 Rec: 10/27/17

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 570809.sec **Lot No.:** A0126533

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2500-5000 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2018 **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 **Purity** 99%	(Lot C386A-GG)	5,005.0 µg/mL	+/- 29.3054 µg/mL +/- 301.9937 µg/mL +/- 302.7106 µg/mL		Gravimetric Unstressed Stressed
2	Ethyl acrylate **CAS #** 140-88-5.SEC **Purity** 99%	(Lot YIFAM-TG)	2,502.0 µg/mL	+/- 14.6831 µg/mL +/- 150.9699 µg/mL +/- 151.3283 µg/mL		Gravimetric Unstressed Stressed
3	Methyl methacrylate **CAS #** 80-62-6.SEC **Purity** 99%	(Lot G01X021)	5,003.5 µg/mL	+/- 29.2966 µg/mL +/- 301.9032 µg/mL +/- 302.6199 µg/mL		Gravimetric Unstressed Stressed
4	Butyl acetate **CAS #** 123-86-4.SEC **Purity** 99%	(Lot V2L2G-GT)	2,505.0 µg/mL	+/- 14.7007 µg/mL +/- 151.1510 µg/mL +/- 151.5098 µg/mL		Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM570809S_00007

VM570809S-00007 Rec: 12/4/18

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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. : 570809.SEC **Lot No.:** A0142413

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, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Ethyl acetate	5,017.5 µg/mL	+/- 29.3786	µg/mL	Gravimetric
	CAS # 141-78-6.SEC (Lot C386A-GG)		+/- 302.7480	µg/mL	Unstressed
	Purity 99%		+/- 303.4666	µg/mL	Stressed
2	Ethyl acrylate	2,501.5 µg/mL	+/- 14.6802	µg/mL	Gravimetric
	CAS # 140-88-5.SEC (Lot YIFAM-TG)		+/- 150.9398	µg/mL	Unstressed
	Purity 99%		+/- 151.2981	µg/mL	Stressed
3	Methyl methacrylate	5,014.5 µg/mL	+/- 29.3610	µg/mL	Gravimetric
	CAS # 80-62-6.SEC (Lot G01X021)		+/- 302.5670	µg/mL	Unstressed
	Purity 99%		+/- 303.2852	µg/mL	Stressed
4	Butyl acetate	2,502.5 µg/mL	+/- 14.6861	µg/mL	Gravimetric
	CAS # 123-86-4.SEC (Lot V2L2G-GT)		+/- 151.0001	µg/mL	Unstressed
	Purity 99%		+/- 151.3585	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Reagent

VM571992_00001

VM571992_00001 Rec'd 1-25-17

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 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.:** 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)

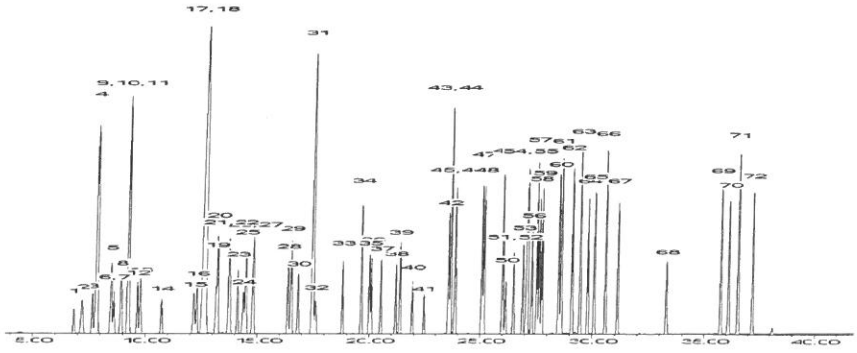
Carrier Gas:
helium-constant pressure 30 psi

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

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

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)

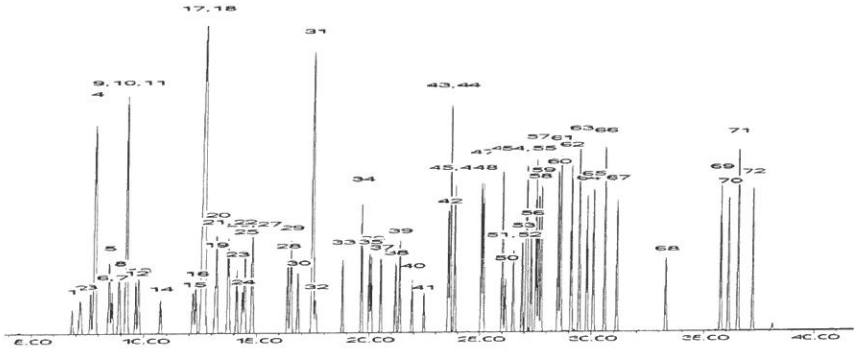
Carrier Gas:
helium-constant pressure 30 psi

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

VM571992S_00002

Rec: 5/24/17

VMS71992S-00002

(10)

RESTEK®

CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ilac-MRA

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

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.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)

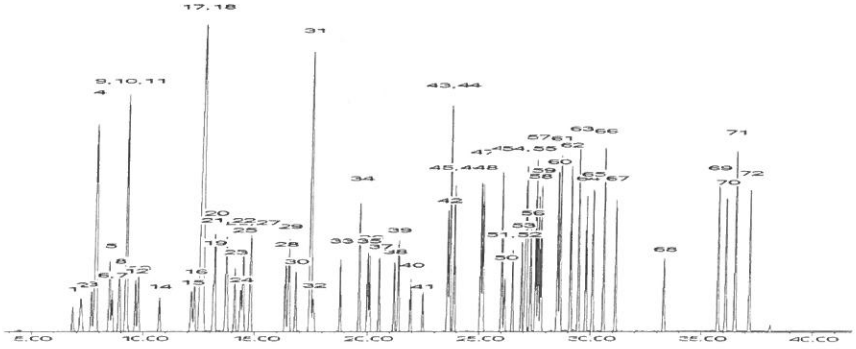
Carrier Gas:
helium-constant pressure 30 psi

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_00005

Rec: 5/31/19
VM571992S-00005

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

A2LA ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

A2LA 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.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		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)

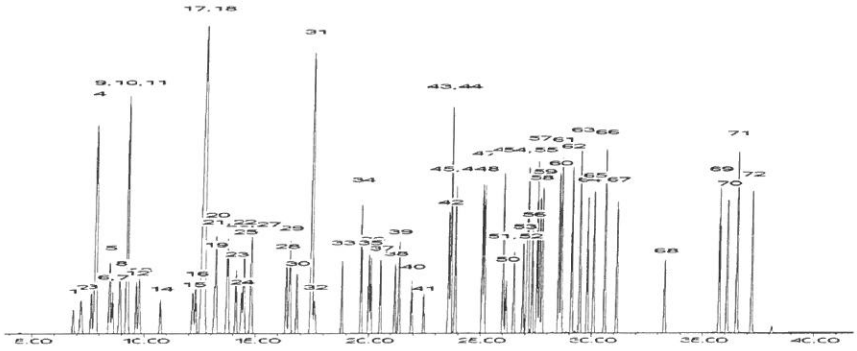
Carrier Gas:
helium-constant pressure 30 psi

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

VM571993_00001

VM571993-0001 Rec: 2-1-17

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 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 (Lot SHBB3177V) **Purity** 98%	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 (Lot SHBC0391V) **Purity** 99%	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 (Lot MKBT8400V) **Purity** 99%	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 (Lot BCBM6569V) **Purity** 99%	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 (Lot STBB1898V) **Purity** 99%	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 (Lot HMBD8698V) **Purity** 98%	2,505.4 µg/mL	+/- 14.5664 µg/mL +/- 123.9353 µg/mL +/- 127.0170 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM571993_00003

VM571993-00003 Rec: 12/4/18

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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. : 571993 **Lot No.:** A0139911

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 : July 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetonitrile	25,212.5 µg/mL	+/- 147.6247	µg/mL	Gravimetric
	CAS # 75-05-8 (Lot SHBH6233)		+/- 1,247.3304	µg/mL	Unstressed
	Purity 99%		+/- 1,278.3404	µg/mL	Stressed
2	Diisopropyl ether (DIPE)	2,525.0 µg/mL	+/- 14.8181	µg/mL	Gravimetric
	CAS # 108-20-3 (Lot SHBC0391V)		+/- 124.9226	µg/mL	Unstressed
	Purity 99%		+/- 128.0281	µg/mL	Stressed
3	Ethyl-tert-butyl ether (ETBE)	2,518.5 µg/mL	+/- 14.7800	µg/mL	Gravimetric
	CAS # 637-92-3 (Lot MKCC2702)		+/- 124.6010	µg/mL	Unstressed
	Purity 99%		+/- 127.6985	µg/mL	Stressed
4	Propionitrile	25,227.5 µg/mL	+/- 147.7126	µg/mL	Gravimetric
	CAS # 107-12-0 (Lot BCBV8545)		+/- 1,248.0725	µg/mL	Unstressed
	Purity 99%		+/- 1,279.1009	µg/mL	Stressed
5	tert-Amyl alcohol	25,152.5 µg/mL	+/- 147.2734	µg/mL	Gravimetric
	CAS # 75-85-4 (Lot STBB1898V)		+/- 1,244.3621	µg/mL	Unstressed
	Purity 99%		+/- 1,275.2982	µg/mL	Stressed
6	tert-Amyl methyl ether (TAME)	2,525.0 µg/mL	+/- 14.8181	µg/mL	Gravimetric
	CAS # 994-05-8 (Lot HMBF8365V)		+/- 124.9226	µg/mL	Unstressed
	Purity 99%		+/- 128.0281	µg/mL	Stressed

Reagent

VM571993S_00002

Rec: 2-1-17

VM571993S - 00002

RESTEK®

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 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. : 571993.sec **Lot No.:** A0123771

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.SEC (Lot 7KGDA) **Purity** 99%	25,091.5 µg/mL	+/- 146.9162 µg/mL +/- 1,241.3442 µg/mL +/- 1,272.2054 µg/mL	Gravimetric Unstressed Stressed
2	Diisopropyl ether (DIPE) **CAS #** 108-20-3.SEC (Lot LL7TN-SH) **Purity** 98%	2,525.0 µg/mL	+/- 14.8179 µg/mL +/- 124.9211 µg/mL +/- 128.0265 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 RTXQL) **Purity** 99%	25,125.5 µg/mL	+/- 147.1153 µg/mL +/- 1,243.0263 µg/mL +/- 1,273.9293 µg/mL	Gravimetric Unstressed Stressed
5	tert-Amyl alcohol **CAS #** 75-85-4.SEC (Lot MMGO1) **Purity** 99%	25,056.0 µg/mL	+/- 146.7084 µg/mL +/- 1,239.5880 µg/mL +/- 1,270.4054 µg/mL	Gravimetric Unstressed Stressed
6	tert-Amyl methyl ether (TAME) **CAS #** 994-05-8.SEC (Lot 5614600) **Purity** 99%	2,517.5 µg/mL	+/- 14.7741 µg/mL +/- 124.5515 µg/mL +/- 127.6478 µg/mL	Gravimetric Unstressed Stressed

Reagent

VM571993S_00005

VM571993S-00005 RCC: 12/4/18

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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. : 571993.SEC **Lot No.:** A0139245

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 : June 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	25,059.0 µg/mL	+/- 146.7260	µg/mL	Gravimetric
	CAS # 75-05-8.SEC (Lot 7KGDA)		+/- 1,239.7364	µg/mL	Unstressed
	Purity 99%		+/- 1,270.5575	µg/mL	Stressed
2	Diisopropyl ether (DIPE)	2,518.6 µg/mL	+/- 14.7806	µg/mL	Gravimetric
	CAS # 108-20-3.SEC (Lot LL7TN-SH)		+/- 124.6059	µg/mL	Unstressed
	Purity 98%		+/- 127.7036	µg/mL	Stressed
3	Ethyl-tert-butyl ether (ETBE)	2,508.0 µg/mL	+/- 14.7183	µg/mL	Gravimetric
	CAS # 637-92-3.SEC (Lot MHBJG-QK)		+/- 124.0815	µg/mL	Unstressed
	Purity 99%		+/- 127.1661	µg/mL	Stressed
4	Propionitrile	25,069.0 µg/mL	+/- 146.7845	µg/mL	Gravimetric
	CAS # 107-12-0.SEC (Lot SASVN)		+/- 1,240.2311	µg/mL	Unstressed
	Purity 99%		+/- 1,271.0646	µg/mL	Stressed
5	tert-Amyl alcohol	25,008.0 µg/mL	+/- 146.4273	µg/mL	Gravimetric
	CAS # 75-85-4.SEC (Lot MMGO1)		+/- 1,237.2133	µg/mL	Unstressed
	Purity 99%		+/- 1,267.9717	µg/mL	Stressed
6	tert-Amyl methyl ether (TAME)	2,501.0 µg/mL	+/- 14.6770	µg/mL	Gravimetric
	CAS # 994-05-8.SEC (Lot 7375800)		+/- 123.7332	µg/mL	Unstressed
	Purity 98%		+/- 126.8091	µg/mL	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.: 240-127107-1

SDG No.:

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-030320	240-127107-1	102	98	98	89
MSA-SW37B-030320	240-127107-2	103	98	98	91
MSA-SW37C-030320	240-127107-3	103	100	99	90
MSA-SW37D-030320	240-127107-4	103	100	101	92
MSA-SW38A-030320	240-127107-5	102	96	98	90
MSA-SW38B-030320	240-127107-6	103	97	97	90
MSA-SW38C-030320	240-127107-7	103	100	98	91
MSA-SW38D-030320	240-127107-8	103	98	97	90
MSA-SW40A-030320	240-127107-9	107	100	98	89
MSA-SW40B-030320	240-127107-10	102	94	96	89
MSA-SW40C-030320	240-127107-11	107	99	99	92
MSA-SW40D-030320	240-127107-12	104	99	99	90
MSA-SW41A-030320	240-127107-13	107	104	103	96
MSA-SW41B-030320	240-127107-14	105	99	97	88
MSA-SW41C-030320	240-127107-15	100	95	96	86
MSA-SW41D-030320	240-127107-16	118	100	94	108
MSA-SW42A-030320	240-127107-17	118	104	94	108
MSA-SW42B-030320	240-127107-18	117	104	93	108
MSA-SW42C-030320	240-127107-19	120	104	94	109
MSA-SW42D-030320	240-127107-20	117	101	92	107
MSA-SW43A-030320	240-127107-21	113	106	95	108
MSA-SW43B-030320	240-127107-22	116	105	95	108
MSA-SW43C-030320	240-127107-23	113	104	96	108
MSA-SW43D-030320	240-127107-24	116	106	95	108
MSA-SW44A-030320	240-127107-25	113	103	93	105
MSA-SW44B-030320	240-127107-26	123	105	92	105
MSA-SW44C-030320	240-127107-27	121	105	92	106
MSA-SW44D-030320	240-127107-28	120	104	94	105
TB-030320	240-127107-29	121	107	93	106
MSA-SW46A-030320	240-127107-30	121	105	93	108
MSA-SW47A-030320	240-127107-31	114	104	92	105
MSA-SW48A-030320	240-127107-32	114	107	95	107
MSA-SW49A-030320	240-127107-33	116	107	97	107
	MB 240-425546/8	100	96	98	88
	MB 240-425629/8	112	101	93	107

	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.: 240-127107-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	LCS 240-425546/5	97	90	101	93
	LCS 240-425629/5	104	92	97	112
	240-127080-E-3 MS	106	93	97	113
	240-127080-E-3 MSD	105	91	95	112

	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.: 240-127107-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U1913208.d

Lab ID: LCS 240-425546/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	19.9	100	77-120	
1,1,1-Trichloroethane	20.0	18.4	92	65-141	
1,1,2,2-Tetrachloroethane	20.0	22.2	111	45-151	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	20.4	102	54-148	
1,1-Dichloroethane	20.0	19.7	99	74-126	
1,1-Dichloroethene	20.0	19.9	99	73-129	
1,1-Dichloropropene	20.0	20.0	100	78-120	
1,2,3-Trichlorobenzene	20.0	14.8	74	42-126	
1,2,3-Trichloropropane	20.0	21.7	109	57-137	
1,2,4-Trichlorobenzene	20.0	12.5	63	47-120	
1,2,4-Trimethylbenzene	20.0	21.1	105	66-129	
1,2-Dibromo-3-Chloropropane	20.0	18.2	91	34-136	
1,2-Dichlorobenzene	20.0	19.2	96	74-120	
1,2-Dichloroethane	20.0	18.6	93	66-129	
1,2-Dichloropropane	20.0	19.2	96	79-127	
1,3-Dichlorobenzene	20.0	19.1	95	74-120	
1,3-Dichloropropane	20.0	19.7	99	74-122	
1,4-Dichlorobenzene	20.0	18.7	94	75-120	
2,2-Dichloropropane	20.0	17.4	87	67-137	
2-Chloroethyl vinyl ether	20.0	17.8	89	29-146	
2-Chlorotoluene	20.0	22.2	111	73-126	
2-Hexanone	40.0	31.4	79	43-142	
Bromobenzene	20.0	19.7	99	77-120	
Bromochloromethane	20.0	17.3	87	70-128	
4-Chlorotoluene	20.0	21.4	107	73-126	
p-Isopropyltoluene	20.0	20.2	101	66-127	
Acetone	40.0	38.1	95	33-155	
Benzene	20.0	20.5	102	77-123	
Bromoform	20.0	16.9	84	47-133	
Bromomethane	20.0	20.6	103	48-144	
Carbon disulfide	20.0	19.4	97	67-127	
Carbon tetrachloride	20.0	18.7	93	61-142	
Chlorobenzene	20.0	20.2	101	80-120	
Chloroethane	20.0	20.0	100	41-147	
Chloroform	20.0	19.9	99	74-127	
Chloromethane	20.0	16.2	81	46-148	
cis-1,2-Dichloroethene	20.0	20.2	101	75-124	
cis-1,3-Dichloropropene	20.0	19.3	96	68-128	
Hexachlorobutadiene	20.0	10.2	51	40-120	
Dibromomethane	20.0	16.9	84	67-121	
Bromodichloromethane	20.0	19.5	97	73-122	

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.: 240-127107-1

SDG No.:

Matrix: Water Level: Low Lab File ID: U1913208.d

Lab ID: LCS 240-425546/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20.0	14.1	71	35-137	
Ethylbenzene	20.0	20.2	101	80-120	
1,2-Dibromoethane	20.0	18.6	93	73-120	
Naphthalene	20.0	16.5	82	28-130	
m-Xylene & p-Xylene	20.0	20.9	105	79-121	
n-Butylbenzene	20.0	18.3	92	54-129	
Isopropylbenzene	20.0	19.8	99	73-123	
n-Propylbenzene	20.0	21.6	108	67-130	
2-Butanone	40.0	36.0	90	41-151	
4-Methyl-2-pentanone	40.0	31.8	79	43-145	
sec-Butylbenzene	20.0	20.3	102	60-131	
Methyl tert-butyl ether	20.0	17.4	87	57-127	
Methylene Chloride	20.0	17.6	88	63-134	
o-Xylene	20.0	20.6	103	75-123	
Styrene	20.0	20.5	103	75-121	
tert-Butylbenzene	20.0	20.4	102	63-126	
Tetrachloroethene	20.0	18.1	90	70-125	
Toluene	20.0	20.8	104	79-122	
trans-1,2-Dichloroethene	20.0	19.4	97	74-130	
trans-1,3-Dichloropropene	20.0	16.7	84	64-120	
Trichloroethene	20.0	19.9	100	71-121	
Trichlorofluoromethane	20.0	17.4	87	52-148	
Vinyl acetate	20.0	17.5	88	44-160	
Vinyl chloride	20.0	16.6	83	61-134	
tert-Butyl alcohol	200	186	93	15-169	
Xylenes, Total	40.0	41.5	104	78-122	
Dibromochloromethane	20.0	19.8	99	75-120	

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.: 240-127107-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM27178.D

Lab ID: LCS 240-425629/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	17.9	89	77-120	
1,1,1-Trichloroethane	20.0	21.6	108	65-141	
1,1,2,2-Tetrachloroethane	20.0	21.3	107	45-151	
1,1,2-Trichloro-1,2,2-trichfluoroethane	20.0	24.4	122	54-148	
1,1-Dichloroethane	20.0	22.0	110	74-126	
1,1-Dichloroethene	20.0	23.1	115	73-129	
1,1-Dichloropropene	20.0	21.0	105	78-120	
1,2,3-Trichlorobenzene	20.0	21.5	108	42-126	
1,2,3-Trichloropropane	20.0	21.1	106	57-137	
1,2,4-Trichlorobenzene	20.0	20.9	104	47-120	
1,2,4-Trimethylbenzene	20.0	21.0	105	66-129	
1,2-Dibromo-3-Chloropropane	20.0	20.4	102	34-136	
1,2-Dichlorobenzene	20.0	21.2	106	74-120	
1,2-Dichloroethane	20.0	21.2	106	66-129	
1,2-Dichloropropane	20.0	22.7	114	79-127	
1,3-Dichlorobenzene	20.0	21.2	106	74-120	
1,3-Dichloropropane	20.0	21.1	106	74-122	
1,4-Dichlorobenzene	20.0	21.3	107	75-120	
2,2-Dichloropropane	20.0	20.4	102	67-137	
2-Chloroethyl vinyl ether	20.0	18.7	93	29-146	
2-Chlorotoluene	20.0	21.2	106	73-126	
2-Hexanone	40.0	38.5	96	43-142	
Bromobenzene	20.0	21.6	108	77-120	
Bromochloromethane	20.0	23.1	116	70-128	
4-Chlorotoluene	20.0	21.4	107	73-126	
p-Isopropyltoluene	20.0	20.7	103	66-127	
Acetone	40.0	45.3	113	33-155	
Benzene	20.0	22.2	111	77-123	
Bromoform	20.0	18.6	93	47-133	
Bromomethane	20.0	17.2	86	48-144	
Carbon disulfide	20.0	21.6	108	67-127	
Carbon tetrachloride	20.0	21.3	106	61-142	
Chlorobenzene	20.0	21.4	107	80-120	
Chloroethane	20.0	24.4	122	41-147	
Chloroform	20.0	22.1	111	74-127	
Chloromethane	20.0	21.1	105	46-148	
cis-1,2-Dichloroethene	20.0	23.0	115	75-124	
cis-1,3-Dichloropropene	20.0	21.3	107	68-128	
Hexachlorobutadiene	20.0	21.0	105	40-120	
Dibromomethane	20.0	22.5	112	67-121	
Bromodichloromethane	20.0	21.8	109	73-122	

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.: 240-127107-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM27178.D

Lab ID: LCS 240-425629/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20.0	19.5	97	35-137	
Ethylbenzene	20.0	20.9	104	80-120	
1,2-Dibromoethane	20.0	21.4	107	73-120	
Naphthalene	20.0	20.5	103	28-130	
m-Xylene & p-Xylene	20.0	21.2	106	79-121	
n-Butylbenzene	20.0	20.4	102	54-129	
Isopropylbenzene	20.0	21.2	106	73-123	
n-Propylbenzene	20.0	20.8	104	67-130	
2-Butanone	40.0	43.1	108	41-151	
4-Methyl-2-pentanone	40.0	42.0	105	43-145	
sec-Butylbenzene	20.0	20.7	104	60-131	
Methyl tert-butyl ether	20.0	19.8	99	57-127	
Methylene Chloride	20.0	21.8	109	63-134	
o-Xylene	20.0	20.7	103	75-123	
Styrene	20.0	18.6	93	75-121	
tert-Butylbenzene	20.0	20.5	103	63-126	
Tetrachloroethene	20.0	22.1	111	70-125	
Toluene	20.0	21.1	105	79-122	
trans-1,2-Dichloroethene	20.0	23.0	115	74-130	
trans-1,3-Dichloropropene	20.0	18.5	92	64-120	
Trichloroethene	20.0	22.6	113	71-121	
Trichlorofluoromethane	20.0	23.5	118	52-148	
Vinyl acetate	20.0	22.4	112	44-160	
Vinyl chloride	20.0	22.8	114	61-134	
tert-Butyl alcohol	200	175	87	15-169	
Xylenes, Total	40.0	41.9	105	78-122	
Dibromochloromethane	20.0	21.2	106	75-120	

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.: 240-127107-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM27184.D

Lab ID: 240-127080-E-3 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,2,2-Tetrachloroethane	400	960	1410	112	37-149	
1,1-Dichloroethene	400	20 U	474	118	64-132	
1,2-Dichloroethane	400	34	437	101	65-127	
Carbon tetrachloride	400	6.3 J	435	107	53-142	
Chloroform	400	230	652	106	66-126	
cis-1,2-Dichloroethene	400	150	603	114	68-121	
Methylene Chloride	400	110	534	106	59-127	
Tetrachloroethene	400	31	468	109	52-129	
trans-1,2-Dichloroethene	400	20 U	459	115	69-126	
Trichloroethene	400	61	499	109	56-124	
Vinyl chloride	400	10 U	464	116	49-136	

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.: 240-127107-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM27185.D

Lab ID: 240-127080-E-3 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,2,2-Tetrachloroethane	400	1420	115	1	35	37-149	
1,1-Dichloroethene	400	516	129	9	35	64-132	
1,2-Dichloroethane	400	468	108	7	35	65-127	
Carbon tetrachloride	400	481	119	10	35	53-142	
Chloroform	400	694	117	6	35	66-126	
cis-1,2-Dichloroethene	400	646	125	7	35	68-121	F1
Methylene Chloride	400	580	117	8	32	59-127	
Tetrachloroethene	400	502	118	7	35	52-129	
trans-1,2-Dichloroethene	400	493	123	7	35	69-126	
Trichloroethene	400	544	121	9	35	56-124	
Vinyl chloride	400	477	119	3	35	49-136	

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.: 240-127107-1

SDG No.:

Lab File ID: U1913211.d Lab Sample ID: MB 240-425546/8

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

Instrument ID: A3UX19 Date Analyzed: 03/05/2020 20:24

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 240-425546/5	U1913208.d	03/05/2020 19:16
MSA-SW37A-030320	240-127107-1	U1913214.d	03/05/2020 21:31
MSA-SW37B-030320	240-127107-2	U1913215.d	03/05/2020 21:54
MSA-SW37C-030320	240-127107-3	U1913216.d	03/05/2020 22:16
MSA-SW37D-030320	240-127107-4	U1913217.d	03/05/2020 22:39
MSA-SW38A-030320	240-127107-5	U1913218.d	03/05/2020 23:02
MSA-SW38B-030320	240-127107-6	U1913219.d	03/05/2020 23:24
MSA-SW38C-030320	240-127107-7	U1913220.d	03/05/2020 23:47
MSA-SW38D-030320	240-127107-8	U1913221.d	03/06/2020 00:09
MSA-SW40A-030320	240-127107-9	U1913222.d	03/06/2020 00:31
MSA-SW40B-030320	240-127107-10	U1913223.d	03/06/2020 00:54
MSA-SW40C-030320	240-127107-11	U1913224.d	03/06/2020 01:16
MSA-SW40D-030320	240-127107-12	U1913225.d	03/06/2020 01:39
MSA-SW41A-030320	240-127107-13	U1913226.d	03/06/2020 02:01
MSA-SW41B-030320	240-127107-14	U1913227.d	03/06/2020 02:24
MSA-SW41C-030320	240-127107-15	U1913228.d	03/06/2020 02:46

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab File ID: UXM27181.D Lab Sample ID: MB 240-425629/8

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

Instrument ID: A3UX16 Date Analyzed: 03/06/2020 12:56

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 240-425629/5	UXM27178.D	03/06/2020 11:42
	240-127080-E-3 MS	UXM27184.D	03/06/2020 14:11
	240-127080-E-3 MSD	UXM27185.D	03/06/2020 14:36
MSA-SW41D-030320	240-127107-16	UXM27186.D	03/06/2020 15:01
MSA-SW42A-030320	240-127107-17	UXM27187.D	03/06/2020 15:25
MSA-SW42B-030320	240-127107-18	UXM27188.D	03/06/2020 15:50
MSA-SW42C-030320	240-127107-19	UXM27189.D	03/06/2020 16:15
MSA-SW42D-030320	240-127107-20	UXM27190.D	03/06/2020 16:40
MSA-SW43A-030320	240-127107-21	UXM27191.D	03/06/2020 17:05
MSA-SW43B-030320	240-127107-22	UXM27192.D	03/06/2020 17:30
MSA-SW43C-030320	240-127107-23	UXM27193.D	03/06/2020 17:55
MSA-SW43D-030320	240-127107-24	UXM27194.D	03/06/2020 18:20
MSA-SW44A-030320	240-127107-25	UXM27195.D	03/06/2020 18:45
MSA-SW44B-030320	240-127107-26	UXM27196.D	03/06/2020 19:10
MSA-SW44C-030320	240-127107-27	UXM27197.D	03/06/2020 19:34
MSA-SW44D-030320	240-127107-28	UXM27198.D	03/06/2020 19:59
TB-030320	240-127107-29	UXM27199.D	03/06/2020 20:24
MSA-SW46A-030320	240-127107-30	UXM27200.D	03/06/2020 20:49
MSA-SW47A-030320	240-127107-31	UXM27201.D	03/06/2020 21:14
MSA-SW48A-030320	240-127107-32	UXM27202.D	03/06/2020 21:39
MSA-SW49A-030320	240-127107-33	UXM27203.D	03/06/2020 22:04

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab File ID: BFB6359.D BFB Injection Date: 02/07/2020

Instrument ID: A3UX16 BFB Injection Time: 15:54

Analysis Batch No.: 421991

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.3	
75	30.0 - 60.0 % of mass 95	53.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.2	(0.3) 1
174	50.0 - 120.00 % of mass 95	63.8	
175	5.0 - 9.0 % of mass 174	4.5	(7.0) 1
176	95.0 - 101.0 % of mass 174	61.3	(96.2) 1
177	5.0 - 9.0 % of mass 176	4.0	(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 240-421991/9	UXM26853.D	02/07/2020	16:51
	STD8260 240-421991/10	UXM26854.D	02/07/2020	17:16
	STD8260 240-421991/11	UXM26855.D	02/07/2020	17:41
	STD8260 240-421991/12	UXM26856.D	02/07/2020	18:06
	ICIS 240-421991/13	UXM26857.D	02/07/2020	18:31
	STD8260 240-421991/14	UXM26858.D	02/07/2020	18:55
	STD8260 240-421991/15	UXM26859.D	02/07/2020	19:20
	STD8260 240-421991/16	UXM26860.D	02/07/2020	19:45
	ICV 240-421991/17	UXM26861.D	02/07/2020	20:10
	STDA9 240-421991/20	UXM26864.D	02/07/2020	21:24
	STDA9 240-421991/21	UXM26865.D	02/07/2020	21:49
	STDA9 240-421991/22	UXM26866.D	02/07/2020	22:14
	STDA9 240-421991/23	UXM26867.D	02/07/2020	22:39
	STDA9 240-421991/24	UXM26868.D	02/07/2020	23:03
	STDA9 240-421991/25	UXM26869.D	02/07/2020	23:28
	ICV 240-421991/26	UXM26870.D	02/07/2020	23:53

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab File ID: BFB6368.D BFB Injection Date: 03/06/2020

Instrument ID: A3UX16 BFB Injection Time: 10:27

Analysis Batch No.: 425629

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.0	
75	30.0 - 60.0 % of mass 95	50.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.7) 1
174	50.0 - 120.00 % of mass 95	68.2	
175	5.0 - 9.0 % of mass 174	4.9	(7.2) 1
176	95.0 - 101.0 % of mass 174	66.1	(97.0) 1
177	5.0 - 9.0 % of mass 176	4.3	(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
	CCVIS 240-425629/3	UXM27176.D	03/06/2020	10:52
	CCV 240-425629/4	UXM27177.D	03/06/2020	11:17
	LCS 240-425629/5	UXM27178.D	03/06/2020	11:42
	MB 240-425629/8	UXM27181.D	03/06/2020	12:56
	240-127080-E-3 MS	UXM27184.D	03/06/2020	14:11
	240-127080-E-3 MSD	UXM27185.D	03/06/2020	14:36
MSA-SW41D-030320	240-127107-16	UXM27186.D	03/06/2020	15:01
MSA-SW42A-030320	240-127107-17	UXM27187.D	03/06/2020	15:25
MSA-SW42B-030320	240-127107-18	UXM27188.D	03/06/2020	15:50
MSA-SW42C-030320	240-127107-19	UXM27189.D	03/06/2020	16:15
MSA-SW42D-030320	240-127107-20	UXM27190.D	03/06/2020	16:40
MSA-SW43A-030320	240-127107-21	UXM27191.D	03/06/2020	17:05
MSA-SW43B-030320	240-127107-22	UXM27192.D	03/06/2020	17:30
MSA-SW43C-030320	240-127107-23	UXM27193.D	03/06/2020	17:55
MSA-SW43D-030320	240-127107-24	UXM27194.D	03/06/2020	18:20
MSA-SW44A-030320	240-127107-25	UXM27195.D	03/06/2020	18:45
MSA-SW44B-030320	240-127107-26	UXM27196.D	03/06/2020	19:10
MSA-SW44C-030320	240-127107-27	UXM27197.D	03/06/2020	19:34
MSA-SW44D-030320	240-127107-28	UXM27198.D	03/06/2020	19:59
TB-030320	240-127107-29	UXM27199.D	03/06/2020	20:24
MSA-SW46A-030320	240-127107-30	UXM27200.D	03/06/2020	20:49
MSA-SW47A-030320	240-127107-31	UXM27201.D	03/06/2020	21:14
MSA-SW48A-030320	240-127107-32	UXM27202.D	03/06/2020	21:39
MSA-SW49A-030320	240-127107-33	UXM27203.D	03/06/2020	22:04

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab File ID: bfb036.d BFB Injection Date: 07/24/2018

Instrument ID: A3UX19 BFB Injection Time: 17:22

Analysis Batch No.: 337766

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.1	
75	30.0 - 60.0 % of mass 95	53.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	1.1	(1.2) 1
174	50.0 - 120.00 % of mass 95	84.3	
175	5.0 - 9.0 % of mass 174	6.2	(7.4) 1
176	95.0 - 101.0 % of mass 174	80.7	(95.7) 1
177	5.0 - 9.0 % of mass 176	5.4	(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 240-337766/2	U1900783.d	07/24/2018	17:50
	STD8260 240-337766/3	U1900784.d	07/24/2018	18:13
	STD8260 240-337766/9	U1900790.d	07/24/2018	18:35
	ICIS 240-337766/10	U1900791.d	07/24/2018	18:57
	STD8260 240-337766/11	U1900792.d	07/24/2018	19:20
	STD8260 240-337766/12	U1900793.d	07/24/2018	19:42
	STD8260 240-337766/13	U1900794.d	07/24/2018	20:04

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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	50.0 - 120.00 % 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
	ICV 240-337917/14	U1900808.d	07/25/2018	15:37

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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	50.0 - 120.00 % 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.: 240-127107-1

SDG No.:

Lab File ID: bfb469.d BFB Injection Date: 03/05/2020

Instrument ID: A3UX19 BFB Injection Time: 18:08

Analysis Batch No.: 425546

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.1	
75	30.0 - 60.0 % of mass 95	49.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	87.3	
175	5.0 - 9.0 % of mass 174	7.5	(8.6) 1
176	95.0 - 101.0 % of mass 174	83.7	(95.8) 1
177	5.0 - 9.0 % of mass 176	5.4	(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
	CCV 240-425546/3	U1913206.d	03/05/2020	18:31
	CCVIS 240-425546/4	U1913207.d	03/05/2020	18:53
	LCS 240-425546/5	U1913208.d	03/05/2020	19:16
	MB 240-425546/8	U1913211.d	03/05/2020	20:24
MSA-SW37A-030320	240-127107-1	U1913214.d	03/05/2020	21:31
MSA-SW37B-030320	240-127107-2	U1913215.d	03/05/2020	21:54
MSA-SW37C-030320	240-127107-3	U1913216.d	03/05/2020	22:16
MSA-SW37D-030320	240-127107-4	U1913217.d	03/05/2020	22:39
MSA-SW38A-030320	240-127107-5	U1913218.d	03/05/2020	23:02
MSA-SW38B-030320	240-127107-6	U1913219.d	03/05/2020	23:24
MSA-SW38C-030320	240-127107-7	U1913220.d	03/05/2020	23:47
MSA-SW38D-030320	240-127107-8	U1913221.d	03/06/2020	00:09
MSA-SW40A-030320	240-127107-9	U1913222.d	03/06/2020	00:31
MSA-SW40B-030320	240-127107-10	U1913223.d	03/06/2020	00:54
MSA-SW40C-030320	240-127107-11	U1913224.d	03/06/2020	01:16
MSA-SW40D-030320	240-127107-12	U1913225.d	03/06/2020	01:39
MSA-SW41A-030320	240-127107-13	U1913226.d	03/06/2020	02:01
MSA-SW41B-030320	240-127107-14	U1913227.d	03/06/2020	02:24
MSA-SW41C-030320	240-127107-15	U1913228.d	03/06/2020	02:46

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Sample No.: ICIS 240-421991/13 Date Analyzed: 02/07/2020 18:31

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM26857.D Heated Purge: (Y/N) N

Calibration ID: 55391

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1302082	5.93	886855	8.66	420039	10.93
UPPER LIMIT		2604164	6.43	1773710	9.16	840078	11.43
LOWER LIMIT		651041	5.43	443428	8.16	210020	10.43
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-421991/17		1181441	5.93	813742	8.66	389644	10.93
ICV 240-421991/26		1105970	5.93	773771	8.66	350170	10.93
CCVIS 240-425629/3		1324630	5.93	953888	8.66	478222	10.93

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.: 240-127107-1

SDG No.:

Sample No.: CCVIS 240-425629/3 Date Analyzed: 03/06/2020 10:52

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM27176.D Heated Purge: (Y/N) N

Calibration ID: 55395

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1324630	5.93	953888	8.66	478222	10.93
UPPER LIMIT		2649260	6.43	1907776	9.16	956444	11.43
LOWER LIMIT		662315	5.43	476944	8.16	239111	10.43
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-425629/4		1228981	5.93	931151	8.66	421546	10.93
LCS 240-425629/5		1330626	5.93	964430	8.66	468550	10.93
MB 240-425629/8		1083381	5.94	824336	8.66	396607	10.93
240-127080-E-3 MS		1174848	5.93	853084	8.66	427751	10.93
240-127080-E-3 MSD		1206581	5.93	876736	8.66	440295	10.93
240-127107-16	MSA-SW41D-030320	1015392	5.93	797820	8.66	391294	10.93
240-127107-17	MSA-SW42A-030320	1010782	5.94	790861	8.66	381209	10.93
240-127107-18	MSA-SW42B-030320	972943	5.93	764952	8.66	367130	10.93
240-127107-19	MSA-SW42C-030320	962214	5.93	752730	8.66	362355	10.93
240-127107-20	MSA-SW42D-030320	942318	5.93	747601	8.66	365617	10.93
240-127107-21	MSA-SW43A-030320	1074044	5.93	816888	8.66	392867	10.93
240-127107-22	MSA-SW43B-030320	1016994	5.93	782882	8.66	378841	10.93
240-127107-23	MSA-SW43C-030320	1072724	5.93	795451	8.66	388374	10.93
240-127107-24	MSA-SW43D-030320	978322	5.93	750351	8.66	362273	10.93
240-127107-25	MSA-SW44A-030320	993405	5.93	762015	8.66	365178	10.93
240-127107-26	MSA-SW44B-030320	881282	5.93	701284	8.66	348496	10.93
240-127107-27	MSA-SW44C-030320	905226	5.93	719568	8.66	352589	10.93
240-127107-28	MSA-SW44D-030320	889043	5.93	700117	8.66	341310	10.93
240-127107-29	TB-030320	911512	5.93	717719	8.66	343094	10.93
240-127107-30	MSA-SW46A-030320	910474	5.93	713126	8.66	350982	10.93
240-127107-31	MSA-SW47A-030320	977056	5.93	755160	8.66	362881	10.93
240-127107-32	MSA-SW48A-030320	1022422	5.93	781344	8.66	373021	10.93
240-127107-33	MSA-SW49A-030320	1020429	5.93	771552	8.66	370742	10.93

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.: 240-127107-1

SDG No.:

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 240-425546/4		1203904	5.67	959607	8.50	483337	10.88

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.: 240-127107-1

SDG No.:

Sample No.: CCVIS 240-425546/4 Date Analyzed: 03/05/2020 18:53

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1913207.d Heated Purge: (Y/N) N

Calibration ID: 51687

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1203904	5.67	959607	8.50	483337	10.88
UPPER LIMIT		2407808	6.17	1919214	9.00	966674	11.38
LOWER LIMIT		601952	5.17	479804	8.00	241669	10.38
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-425546/5		1207880	5.67	956803	8.50	470957	10.88
MB 240-425546/8		1160074	5.67	939019	8.50	458174	10.88
240-127107-1	MSA-SW37A-030320	1138630	5.67	920898	8.50	460352	10.90
240-127107-2	MSA-SW37B-030320	1100619	5.67	871108	8.50	440439	10.88
240-127107-3	MSA-SW37C-030320	1095240	5.67	872369	8.50	427480	10.88
240-127107-4	MSA-SW37D-030320	1112935	5.67	878162	8.50	439308	10.88
240-127107-5	MSA-SW38A-030320	1111093	5.67	878233	8.50	429789	10.88
240-127107-6	MSA-SW38B-030320	1095866	5.67	867843	8.50	444909	10.88
240-127107-7	MSA-SW38C-030320	1094095	5.67	872197	8.50	442621	10.88
240-127107-8	MSA-SW38D-030320	1112819	5.67	899845	8.50	454432	10.88
240-127107-9	MSA-SW40A-030320	1090996	5.67	873677	8.50	444487	10.88
240-127107-10	MSA-SW40B-030320	1116985	5.67	896313	8.50	450378	10.88
240-127107-11	MSA-SW40C-030320	1071328	5.67	848781	8.50	424843	10.88
240-127107-12	MSA-SW40D-030320	1072564	5.67	862624	8.50	426568	10.88
240-127107-13	MSA-SW41A-030320	1060763	5.67	845531	8.50	419857	10.88
240-127107-14	MSA-SW41B-030320	1085050	5.67	868233	8.50	432866	10.88
240-127107-15	MSA-SW41C-030320	1092163	5.65	871999	8.50	431993	10.88

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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

Matrix: Water Lab File ID: U1913214.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:52

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

Matrix: Water Lab File ID: U1913214.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:52

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

Matrix: Water Lab File ID: U1913214.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:52

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-130
460-00-4	4-Bromofluorobenzene (Surr)	89		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	102		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

Matrix: Water Lab File ID: U1913214.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:52

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37A-030320 Lab Sample ID: 240-127107-1

Matrix: Water Lab File ID: U1913214.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:52

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913214.d
Lims ID: 240-127107-B-1
Client ID: MSA-SW37A-030320
Sample Type: Client
Inject. Date: 05-Mar-2020 21:31:56 ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-011
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Mar-2020 19:50:43 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: laveyt Date: 05-Mar-2020 21:51:48

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	1138630	20.0	
* 2 Chlorobenzene-d5	117	8.499	8.500	-0.001	84	920898	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.895	10.883	0.012	94	460352	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	93	311752	20.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	97	344627	19.6	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	1079394	19.5	
$ 7 4-Bromofluorobenzene (Surr	95	9.685	9.686	-0.001	93	370925	17.9	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62		1.930				ND	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	92	6300	1.41	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.590	3.578	0.012	32	404	0.2620	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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	

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

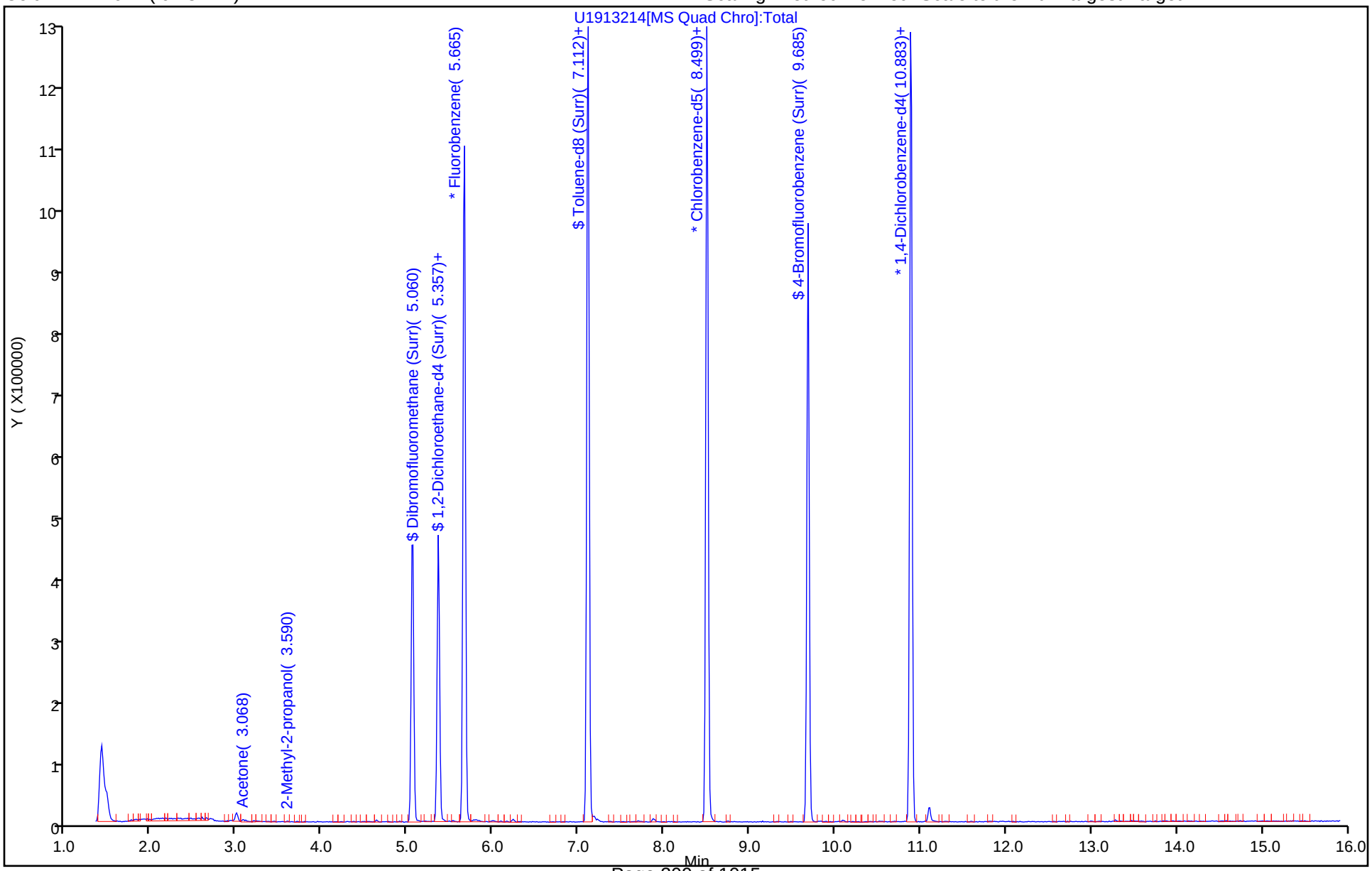
Report Date: 05-Mar-2020 21:52:30 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913214.d

Injection Date:	05-Mar-2020 21:31:56	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-1	Lab Sample ID:	240-127107-1	Worklist Smp#:	11
Client ID:	MSA-SW37A-030320				
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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913214.d
Lims ID: 240-127107-B-1
Client ID: MSA-SW37A-030320
Sample Type: Client
Inject. Date: 05-Mar-2020 21:31:56 ALS Bottle#: 0 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-011
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Mar-2020 19:50:43 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: laveyt Date: 05-Mar-2020 21:51:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.3	101.71
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.6	97.89
$ 6 Toluene-d8 (Surr)	20.0	19.5	97.73
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.9	89.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

Matrix: Water Lab File ID: U1913215.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:55

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:54

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

Matrix: Water Lab File ID: U1913215.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:55

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:54

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

Matrix: Water Lab File ID: U1913215.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:55

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:54

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-130
460-00-4	4-Bromofluorobenzene (Surr)	91		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	103		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

Matrix: Water Lab File ID: U1913215.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:55

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:54

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37B-030320 Lab Sample ID: 240-127107-2

Matrix: Water Lab File ID: U1913215.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:55

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 21:54

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.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913215.d
Lims ID: 240-127107-B-2
Client ID: MSA-SW37B-030320
Sample Type: Client
Inject. Date: 05-Mar-2020 21:54:33 ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-012
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 02:57:59 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:52:11

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	1100619	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	83	871108	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	94	440439	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.061	5.049	0.012	94	305003	20.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	97	333889	19.6	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	92	1018900	19.5	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	92	356309	18.1	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62		1.930				ND	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	93	5646	1.31	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.567	3.578	-0.012	1	335	0.2248	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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	

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

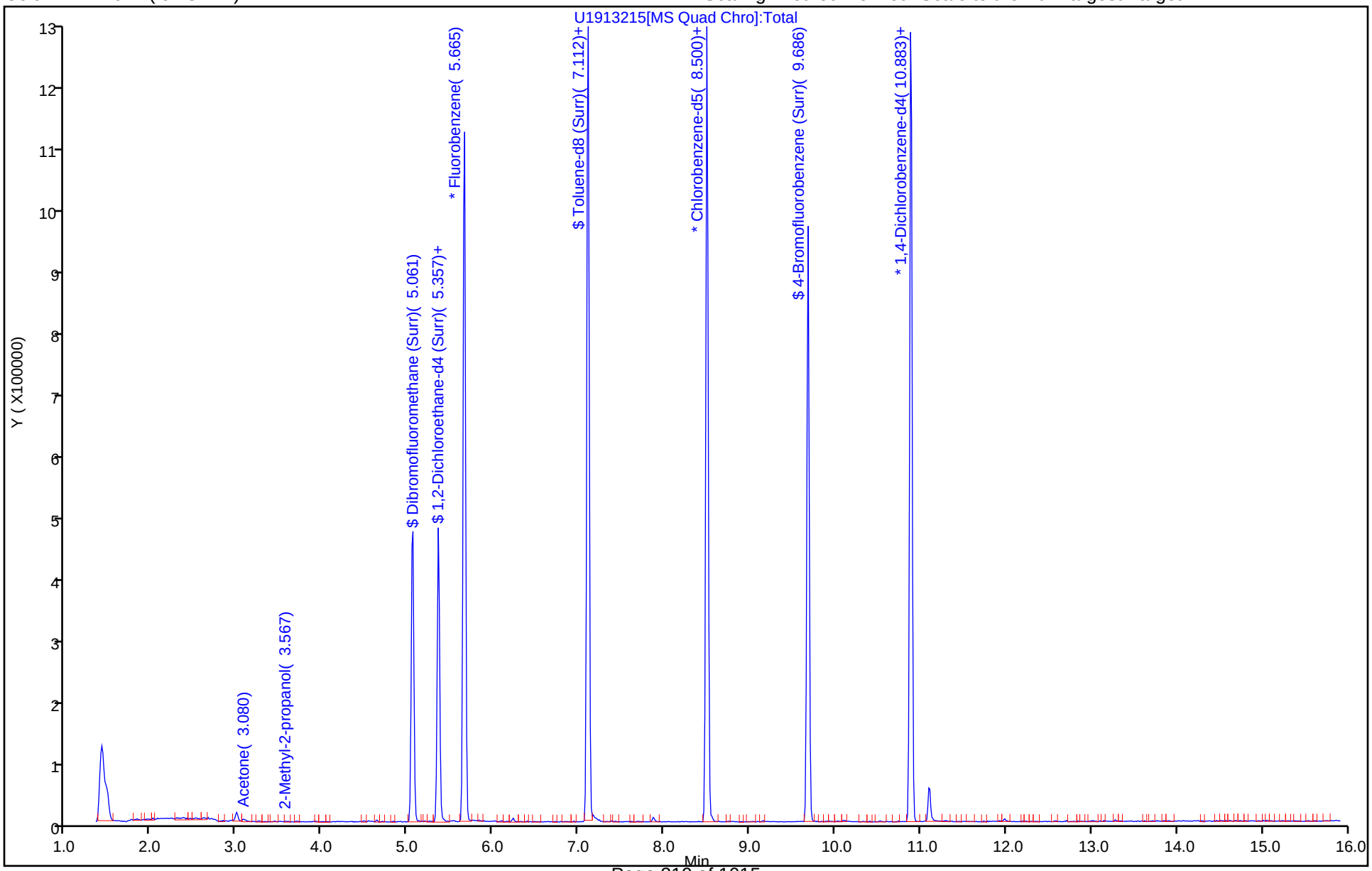
Report Date: 06-Mar-2020 12:52:11 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913215.d

Injection Date:	05-Mar-2020 21:54:33	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-2	Lab Sample ID:	240-127107-2	Worklist Smp#:	12
Client ID:	MSA-SW37B-030320				
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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913215.d
Lims ID: 240-127107-B-2
Client ID: MSA-SW37B-030320
Sample Type: Client
Inject. Date: 05-Mar-2020 21:54:33 ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-012
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 02:57:59 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:52:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.6	102.94
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.6	98.11
$ 6 Toluene-d8 (Surr)	20.0	19.5	97.53
$ 7 4-Bromofluorobenzene (Surr)	20.0	18.1	90.64

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Matrix: Water Lab File ID: U1913216.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Matrix: Water Lab File ID: U1913216.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Matrix: Water Lab File ID: U1913216.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
460-00-4	4-Bromofluorobenzene (Surr)	90		47-134
2037-26-5	Toluene-d8 (Surr)	99		69-122
1868-53-7	Dibromofluoromethane (Surr)	103		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Matrix: Water Lab File ID: U1913216.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:16

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37C-030320 Lab Sample ID: 240-127107-3

Matrix: Water Lab File ID: U1913216.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:57

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:16

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.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913216.d
Lims ID: 240-127107-B-3
Client ID: MSA-SW37C-030320
Sample Type: Client
Inject. Date: 05-Mar-2020 22:16:48 ALS Bottle#: 0 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-013
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 02:57:59 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:52:33

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	100	1095240	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	872369	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	95	427480	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	93	303889	20.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	97	339949	20.1	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	92	1039747	19.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	93	353724	18.0	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62	1.918	1.930	-0.012	20	1905	0.1167	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.068	3.080	-0.012	87	4517	1.05	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59		3.578				ND	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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	98	7781	0.1320	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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	

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

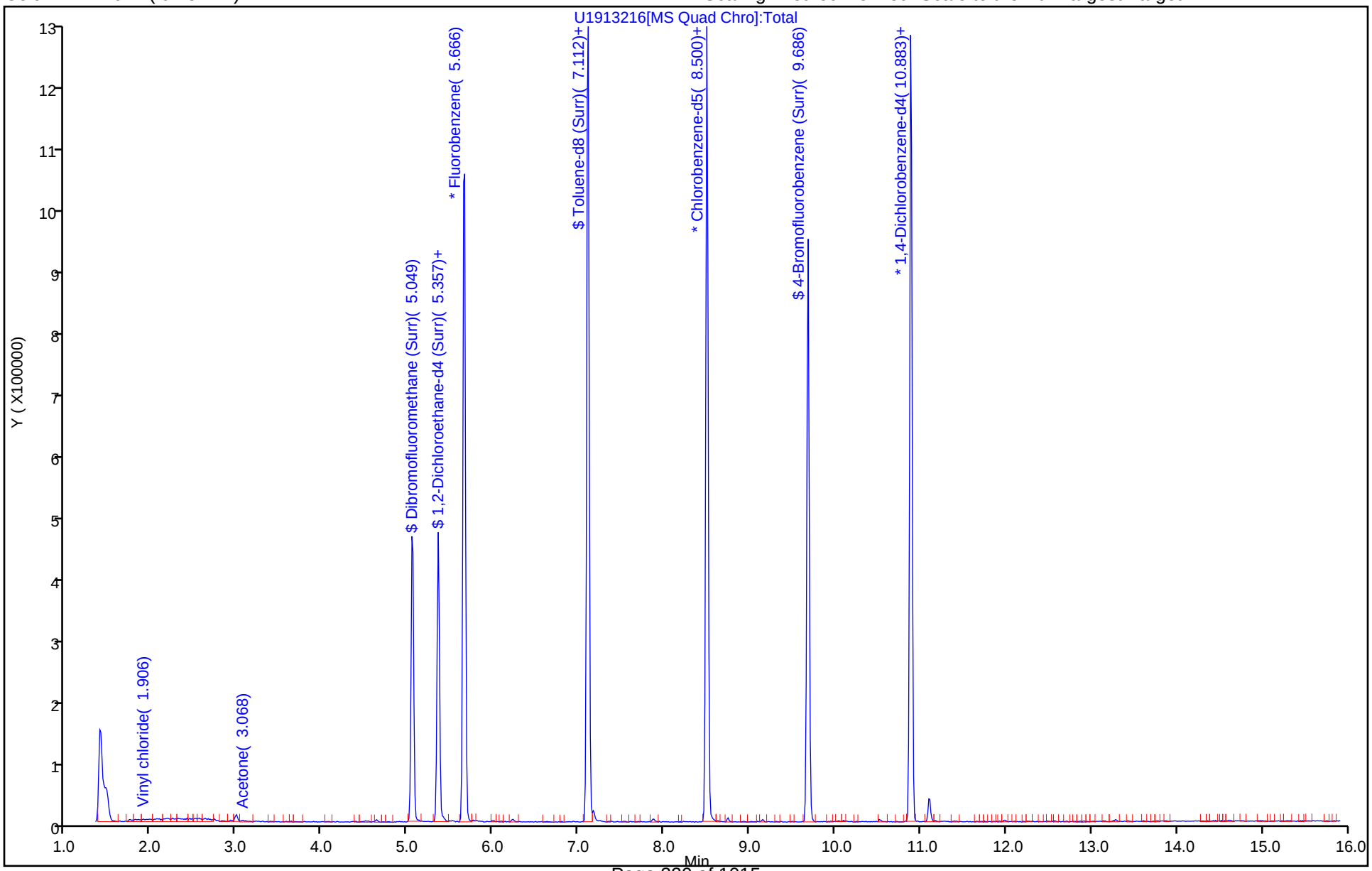
Report Date: 06-Mar-2020 12:52:33 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913216.d

Injection Date:	05-Mar-2020 22:16:48	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-3	Lab Sample ID:	240-127107-3	Worklist Smp#:	13
Client ID:	MSA-SW37C-030320				
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:	\\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913216.d				
Lims ID:	240-127107-B-3				
Client ID:	MSA-SW37C-030320				
Sample Type:	Client				
Inject. Date:	05-Mar-2020 22:16:48	ALS Bottle#:	0	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0096368-013				
Operator ID:	001904	Instrument ID:	A3UX19		
Method:	\\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	06-Mar-2020 02:57:59	Calib Date:	22-Jun-2019 06:01:27		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX0321				

First Level Reviewer: laveyt Date: 06-Mar-2020 12:52:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.6	103.07
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.1	100.39
$ 6 Toluene-d8 (Surr)	20.0	19.9	99.38
$ 7 4-Bromofluorobenzene (Surr)	20.0	18.0	89.85

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Matrix: Water Lab File ID: U1913217.d

Analysis Method: 8260C Date Collected: 03/03/2020 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Matrix: Water Lab File ID: U1913217.d

Analysis Method: 8260C Date Collected: 03/03/2020 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Matrix: Water Lab File ID: U1913217.d

Analysis Method: 8260C Date Collected: 03/03/2020 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
460-00-4	4-Bromofluorobenzene (Surr)	92		47-134
2037-26-5	Toluene-d8 (Surr)	101		69-122
1868-53-7	Dibromofluoromethane (Surr)	103		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Matrix: Water Lab File ID: U1913217.d

Analysis Method: 8260C Date Collected: 03/03/2020 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW37D-030320 Lab Sample ID: 240-127107-4

Matrix: Water Lab File ID: U1913217.d

Analysis Method: 8260C Date Collected: 03/03/2020 10:00

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 22:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913217.d
Lims ID: 240-127107-B-4
Client ID: MSA-SW37D-030320
Sample Type: Client
Inject. Date: 05-Mar-2020 22:39:16 ALS Bottle#: 0 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-014
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 02:57:59 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:52:49

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	1112935	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	878162	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	95	439308	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	93	309780	20.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	98	343983	20.0	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	1060676	20.1	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	94	366035	18.5	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62		1.930				ND	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	97	5243	1.20	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59		3.578				ND	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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	

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

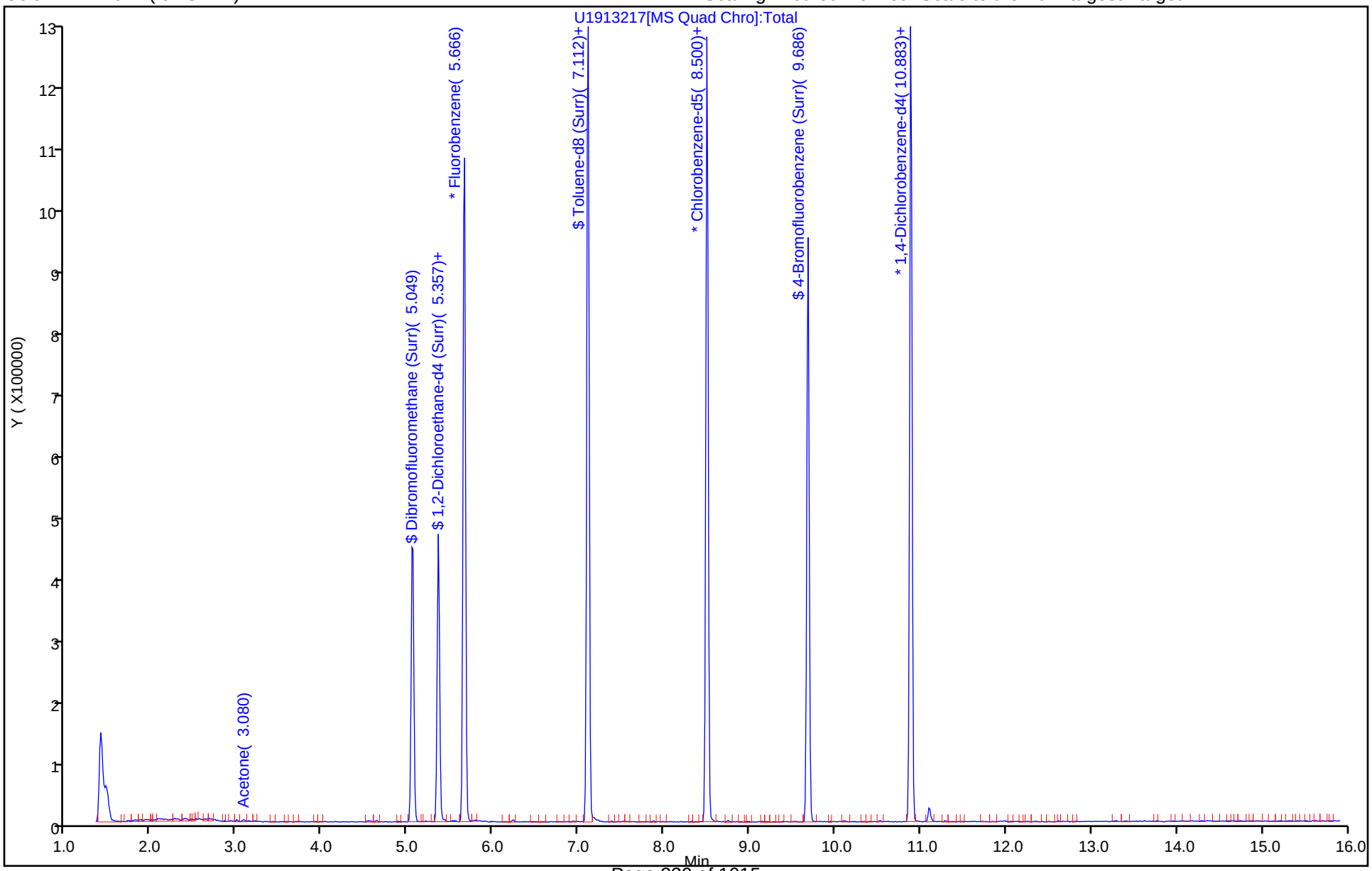
Report Date: 06-Mar-2020 12:52:50 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913217.d

Injection Date:	05-Mar-2020 22:39:16	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-4	Lab Sample ID:	240-127107-4	Worklist Smp#:	14
Client ID:	MSA-SW37D-030320				
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:	\\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913217.d				
Lims ID:	240-127107-B-4				
Client ID:	MSA-SW37D-030320				
Sample Type:	Client				
Inject. Date:	05-Mar-2020 22:39:16	ALS Bottle#:	0	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0096368-014				
Operator ID:	001904	Instrument ID:	A3UX19		
Method:	\\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	06-Mar-2020 02:57:59	Calib Date:	22-Jun-2019 06:01:27		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX0321				

First Level Reviewer: laveyt Date: 06-Mar-2020 12:52:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.7	103.40
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.0	99.96
$ 6 Toluene-d8 (Surr)	20.0	20.1	100.71
$ 7 4-Bromofluorobenzene (Surr)	20.0	18.5	92.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

Matrix: Water Lab File ID: U1913218.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:02

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

Matrix: Water Lab File ID: U1913218.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:02

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

Matrix: Water Lab File ID: U1913218.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:02

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
460-00-4	4-Bromofluorobenzene (Surr)	90		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	102		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

Matrix: Water Lab File ID: U1913218.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:02

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38A-030320 Lab Sample ID: 240-127107-5

Matrix: Water Lab File ID: U1913218.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:03

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:02

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.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913218.d
Lims ID: 240-127107-B-5
Client ID: MSA-SW38A-030320
Sample Type: Client
Inject. Date: 05-Mar-2020 23:02:04 ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-015
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 02:57:59 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:53:14

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	100	1111093	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	878233	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	96	429789	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.061	5.049	0.012	93	304285	20.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	97	329113	19.2	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	92	1029077	19.5	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	92	356183	18.0	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62	1.906	1.930	-0.024	23	2139	0.1292	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.069	3.080	-0.011	95	5797	1.33	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.579	3.578	0.001	6	450	0.2991	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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	

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

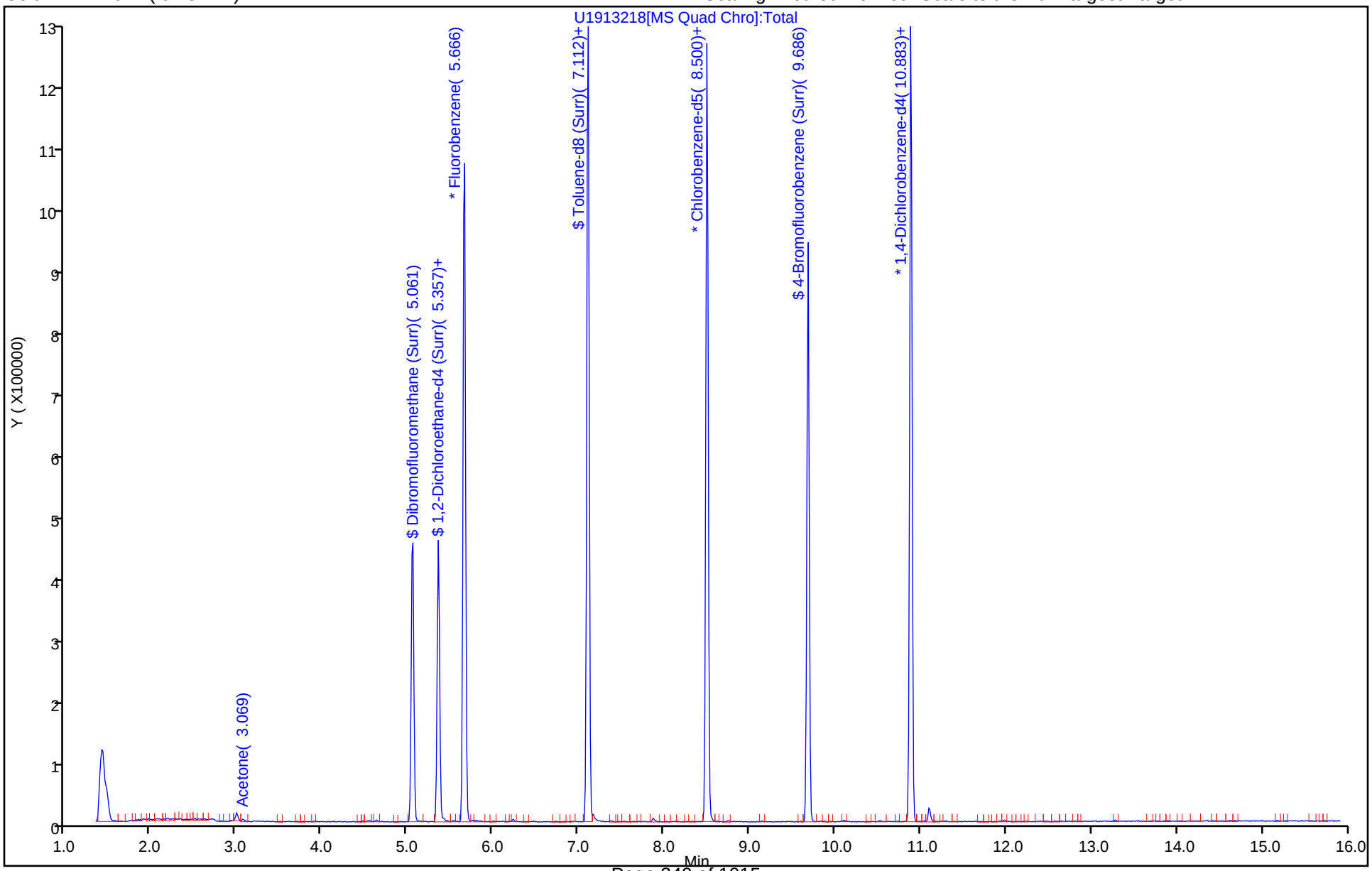
Report Date: 06-Mar-2020 12:53:14 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913218.d

Injection Date:	05-Mar-2020 23:02:04	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-5	Lab Sample ID:	240-127107-5	Worklist Smp#:	15
Client ID:	MSA-SW38A-030320				
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:	\\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913218.d				
Lims ID:	240-127107-B-5				
Client ID:	MSA-SW38A-030320				
Sample Type:	Client				
Inject. Date:	05-Mar-2020 23:02:04	ALS Bottle#:	0	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0096368-015				
Operator ID:	001904	Instrument ID:	A3UX19		
Method:	\\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	06-Mar-2020 02:57:59	Calib Date:	22-Jun-2019 06:01:27		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX0321				

First Level Reviewer: laveyt Date: 06-Mar-2020 12:53:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.3	101.73
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.2	95.80
$ 6 Toluene-d8 (Surr)	20.0	19.5	97.71
$ 7 4-Bromofluorobenzene (Surr)	20.0	18.0	89.87

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Matrix: Water Lab File ID: U1913219.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:05

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Matrix: Water Lab File ID: U1913219.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:05

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Matrix: Water Lab File ID: U1913219.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:05

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		75-130
460-00-4	4-Bromofluorobenzene (Surr)	90		47-134
2037-26-5	Toluene-d8 (Surr)	97		69-122
1868-53-7	Dibromofluoromethane (Surr)	103		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Matrix: Water Lab File ID: U1913219.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:05

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:24

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38B-030320 Lab Sample ID: 240-127107-6

Matrix: Water Lab File ID: U1913219.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:05

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:24

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.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913219.d
Lims ID: 240-127107-B-6
Client ID: MSA-SW38B-030320
Sample Type: Client
Inject. Date: 05-Mar-2020 23:24:44 ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-016
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 02:57:59 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:53:36

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	1095866	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	867843	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	94	444909	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.061	5.049	0.012	93	304215	20.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	96	329646	19.5	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	92	1006779	19.3	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	92	353759	18.1	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62	1.942	1.930	0.012	1	1860	0.1139	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.092	3.080	0.012	99	7884	1.84	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.567	3.578	-0.011	38	1011	0.6813	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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	

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

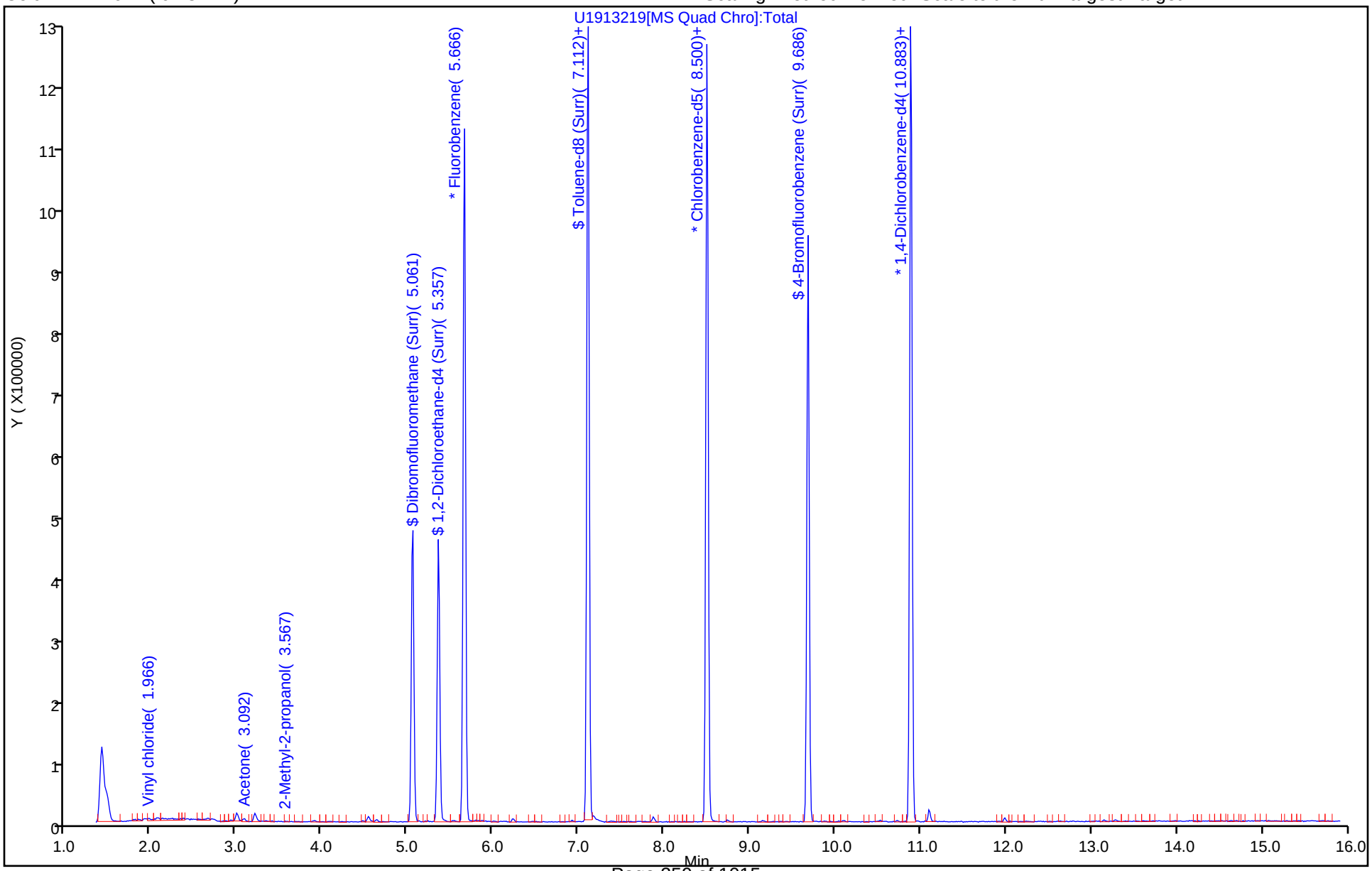
Report Date: 06-Mar-2020 12:53:36 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913219.d

Injection Date:	05-Mar-2020 23:24:44	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-6	Lab Sample ID:	240-127107-6	Worklist Smp#:	16
Client ID:	MSA-SW38B-030320				
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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913219.d
Lims ID: 240-127107-B-6
Client ID: MSA-SW38B-030320
Sample Type: Client
Inject. Date: 05-Mar-2020 23:24:44 ALS Bottle#: 0 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-016
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 02:57:59 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:53:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.6	103.12
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.5	97.29
$ 6 Toluene-d8 (Surr)	20.0	19.3	96.73
$ 7 4-Bromofluorobenzene (Surr)	20.0	18.1	90.33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Matrix: Water Lab File ID: U1913220.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Matrix: Water Lab File ID: U1913220.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Matrix: Water Lab File ID: U1913220.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
460-00-4	4-Bromofluorobenzene (Surr)	91		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	103		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Matrix: Water Lab File ID: U1913220.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I-TIC 8260C

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38C-030320 Lab Sample ID: 240-127107-7

Matrix: Water Lab File ID: U1913220.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:09

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 23:47

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913220.d
Lims ID: 240-127107-B-7
Client ID: MSA-SW38C-030320
Sample Type: Client
Inject. Date: 05-Mar-2020 23:47:11 ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-017
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 02:57:59 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:53:59

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	1094095	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	872197	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	95	442621	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	93	304732	20.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	97	339214	20.1	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	1028047	19.7	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	94	358459	18.2	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62		1.930				ND	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.069	3.080	-0.012	97	6671	1.56	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.567	3.578	-0.011	39	1355	0.9146	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	1	1664	0.1052	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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	

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

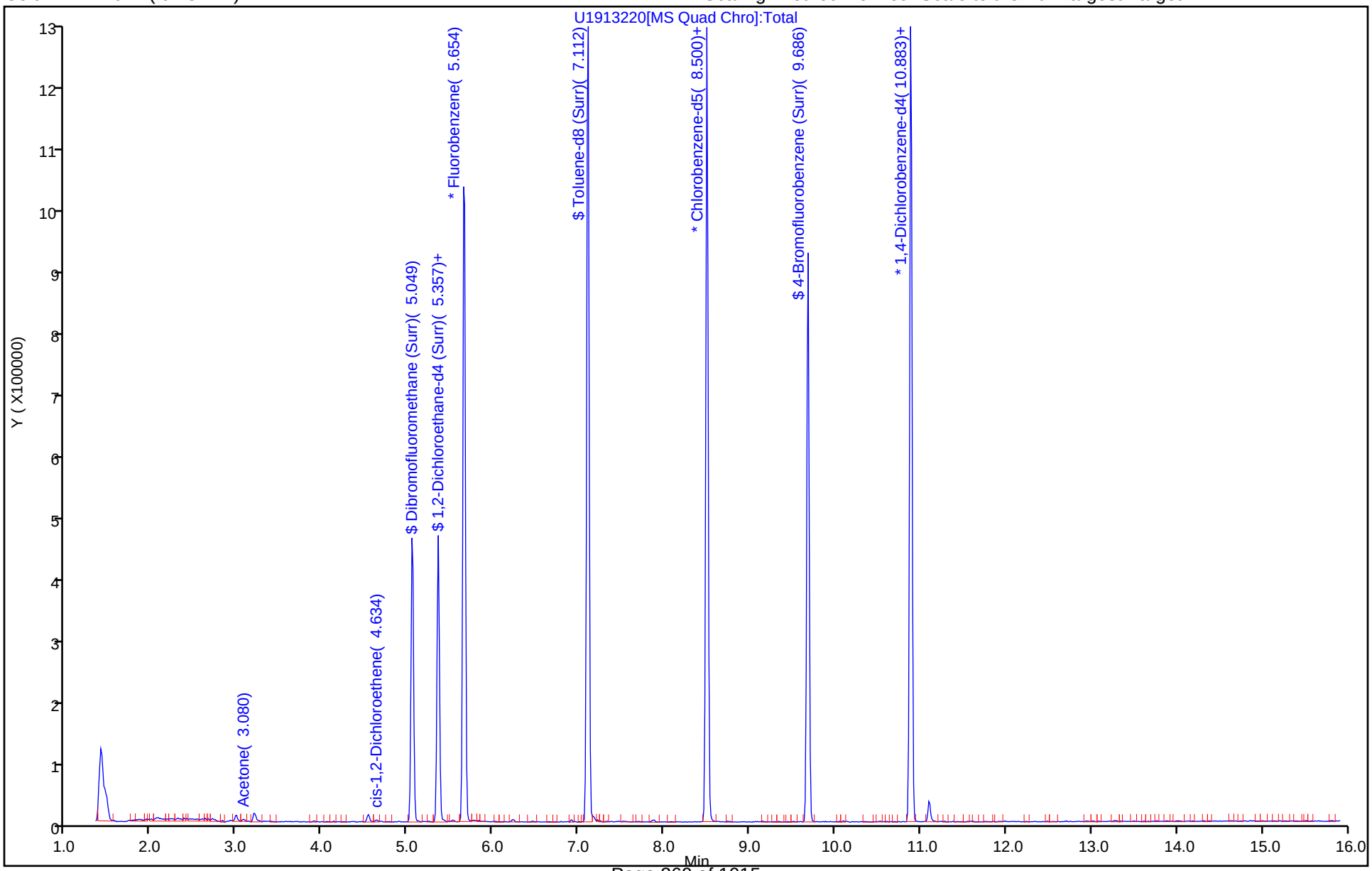
Report Date: 06-Mar-2020 12:54:00 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913220.d

Injection Date:	05-Mar-2020 23:47:11	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-7	Lab Sample ID:	240-127107-7	Worklist Smp#:	17
Client ID:	MSA-SW38C-030320				
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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913220.d
Lims ID: 240-127107-B-7
Client ID: MSA-SW38C-030320
Sample Type: Client
Inject. Date: 05-Mar-2020 23:47:11 ALS Bottle#: 0 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-017
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 02:57:59 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:53:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.7	103.46
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.1	100.27
$ 6 Toluene-d8 (Surr)	20.0	19.7	98.28
$ 7 4-Bromofluorobenzene (Surr)	20.0	18.2	91.07

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Matrix: Water Lab File ID: U1913221.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:09

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Matrix: Water Lab File ID: U1913221.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:09

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Matrix: Water Lab File ID: U1913221.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:09

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		75-130
460-00-4	4-Bromofluorobenzene (Surr)	90		47-134
2037-26-5	Toluene-d8 (Surr)	97		69-122
1868-53-7	Dibromofluoromethane (Surr)	103		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Matrix: Water Lab File ID: U1913221.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:09

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW38D-030320 Lab Sample ID: 240-127107-8

Matrix: Water Lab File ID: U1913221.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:12

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:09

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.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913221.d
Lims ID: 240-127107-B-8
Client ID: MSA-SW38D-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 00:09:40 ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-018
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:54:26 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:54:26

	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	1112819	20.0	
*	2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	899845	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	94	454432	20.0	
$	4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	93	307147	20.5	
$	5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	97	338114	19.7	
$	6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	1051163	19.5	
$	7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	92	367215	18.1	
	9 Dichlorodifluoromethane	85		1.622				ND	
	10 Chloromethane	50		1.823				ND	
	12 Vinyl chloride	62	1.930	1.930	0.000	30	1924	0.1160	
	13 Bromomethane	94		2.227				ND	
	15 Chloroethane	64		2.321				ND	
	17 Trichlorofluoromethane	101		2.570				ND	
	20 1,1-Dichloroethene	61		3.045				ND	
	21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
	22 Acetone	43	3.080	3.080	0.000	99	8657	1.98	
	25 Carbon disulfide	76		3.258				ND	
	29 Methylene Chloride	49		3.484				ND	
	30 2-Methyl-2-propanol	59	3.579	3.578	0.000	18	963	0.6391	
	32 trans-1,2-Dichloroethene	61		3.744				ND	
	33 Methyl tert-butyl ether	73		3.744				ND	
	35 1,1-Dichloroethane	63		4.112				ND	
	36 Vinyl acetate	43		4.160				ND	
	37 Isopropyl ether	87		4.183				ND	
	39 Tert-butyl ethyl ether	59		4.503				ND	
	41 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	69	1987	0.1235	
	40 2-Butanone (MEK)	72		4.634				ND	
	42 2,2-Dichloropropane	77		4.634				ND	
	46 Chlorobromomethane	49		4.847				ND	
	48 Chloroform	83		4.907				ND	
	49 1,1,1-Trichloroethane	97		5.096				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	U
71 Toluene	91		7.172				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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

Review Flags

U - Marked Undetected

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

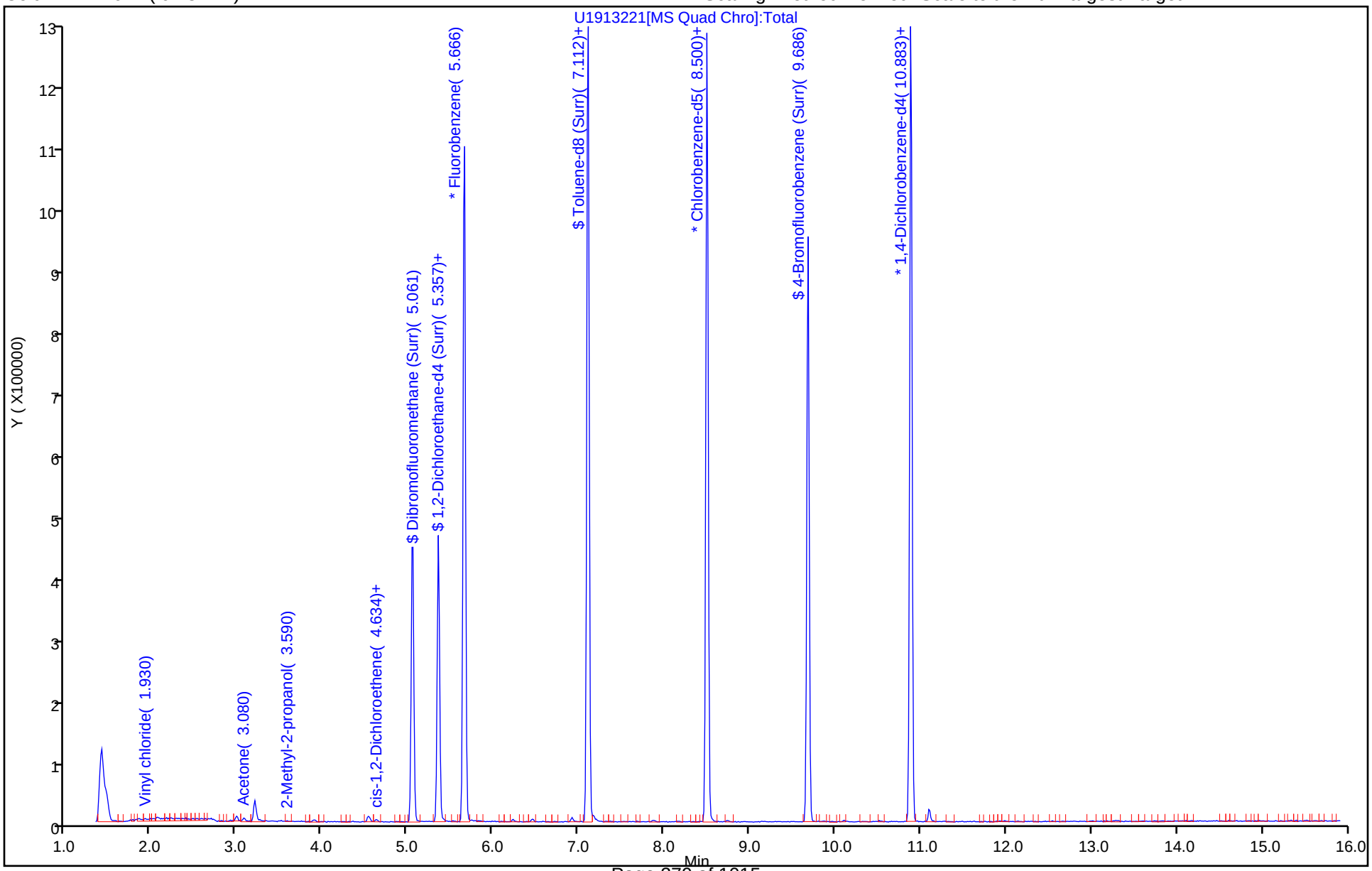
Report Date: 06-Mar-2020 12:54:27 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913221.d

Injection Date:	06-Mar-2020 00:09:40	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-8	Lab Sample ID:	240-127107-8	Worklist Smp#:	18
Client ID:	MSA-SW38D-030320				
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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913221.d
Lims ID: 240-127107-B-8
Client ID: MSA-SW38D-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 00:09:40 ALS Bottle#: 0 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-018
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:54:26 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:54:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.5	102.53
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.7	98.27
$ 6 Toluene-d8 (Surr)	20.0	19.5	97.41
$ 7 4-Bromofluorobenzene (Surr)	20.0	18.1	90.43

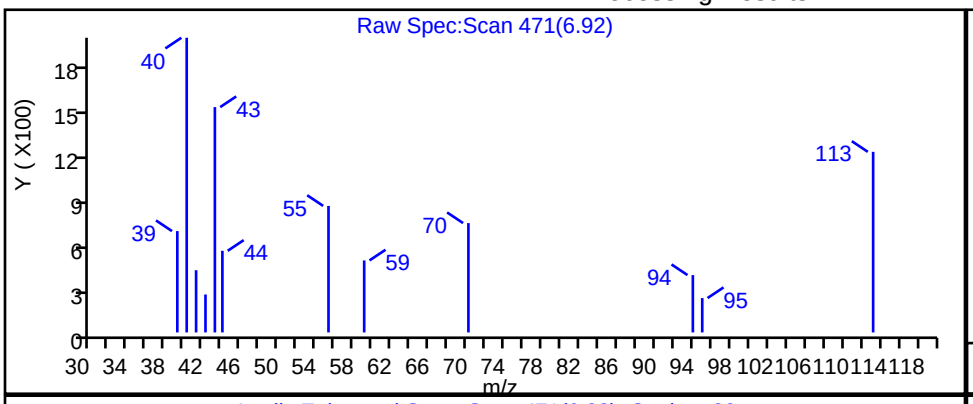
User Disabled Compound Report

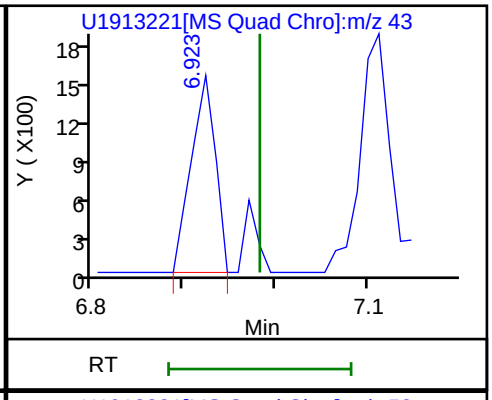
Eurofins TestAmerica, Canton

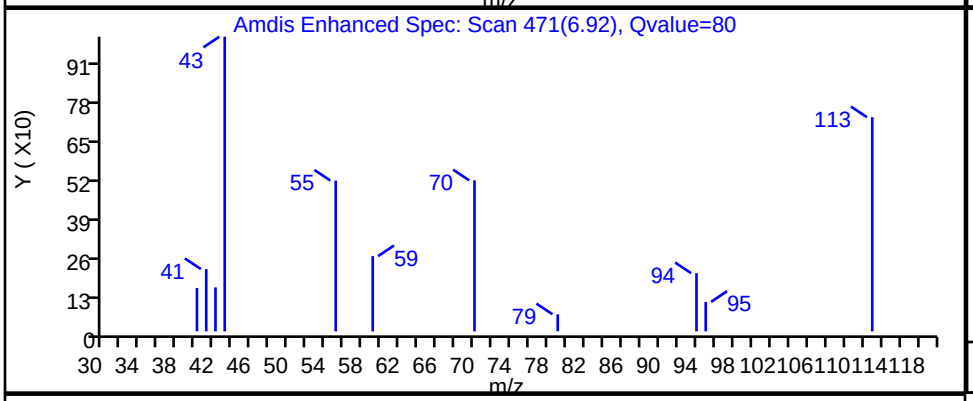
Data File:	\\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913221.d				
Injection Date:	06-Mar-2020 00:09:40	Instrument ID:	A3UX19		
Lims ID:	240-127107-B-8	Lab Sample ID:	240-127107-8		
Client ID:	MSA-SW38D-030320				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

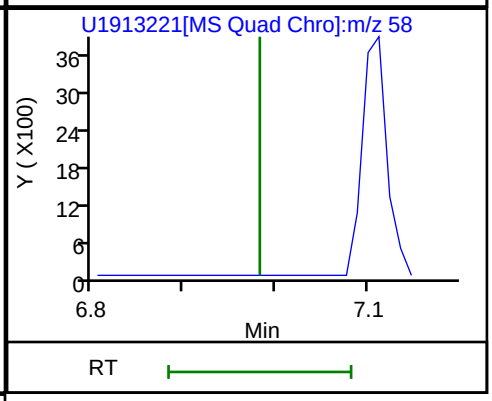
70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

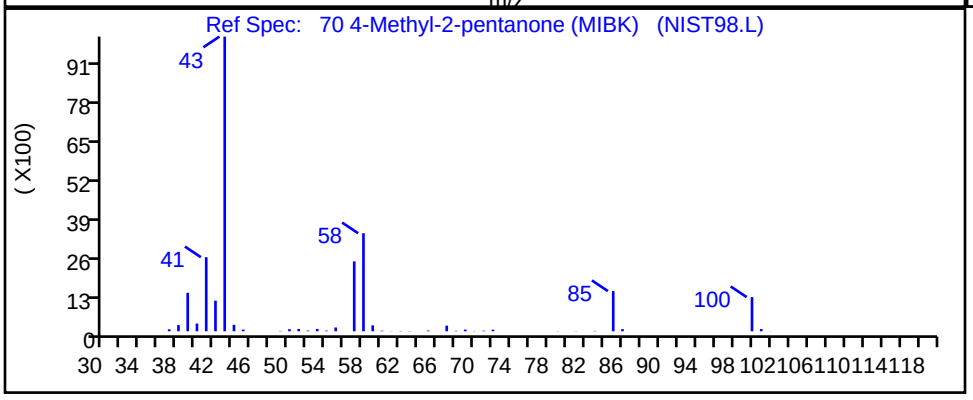
Processing Results











RT	Mass	Response	Amount
6.92	43.00	2798	0.156984
6.98	58.00	0	

Reviewer: laveyt, 06-Mar-2020 12:54:19

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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Matrix: Water Lab File ID: U1913222.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:21

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Matrix: Water Lab File ID: U1913222.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:21

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.24	J	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Matrix: Water Lab File ID: U1913222.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:21

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
460-00-4	4-Bromofluorobenzene (Surr)	89		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	107		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Matrix: Water Lab File ID: U1913222.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:21

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40A-030320 Lab Sample ID: 240-127107-9

Matrix: Water Lab File ID: U1913222.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:21

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913222.d
Lims ID: 240-127107-B-9
Client ID: MSA-SW40A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 00:31:57 ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-019
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:54:26 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:54:50

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	1090996	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	873677	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	95	444487	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	93	313512	21.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	97	336655	20.0	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	1031409	19.7	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	92	350052	17.8	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62	1.918	1.930	-0.012	90	3885	0.2390	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	100	9161	2.14	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.590	3.578	0.012	12	726	0.4914	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	66	1953	0.1239	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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	

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

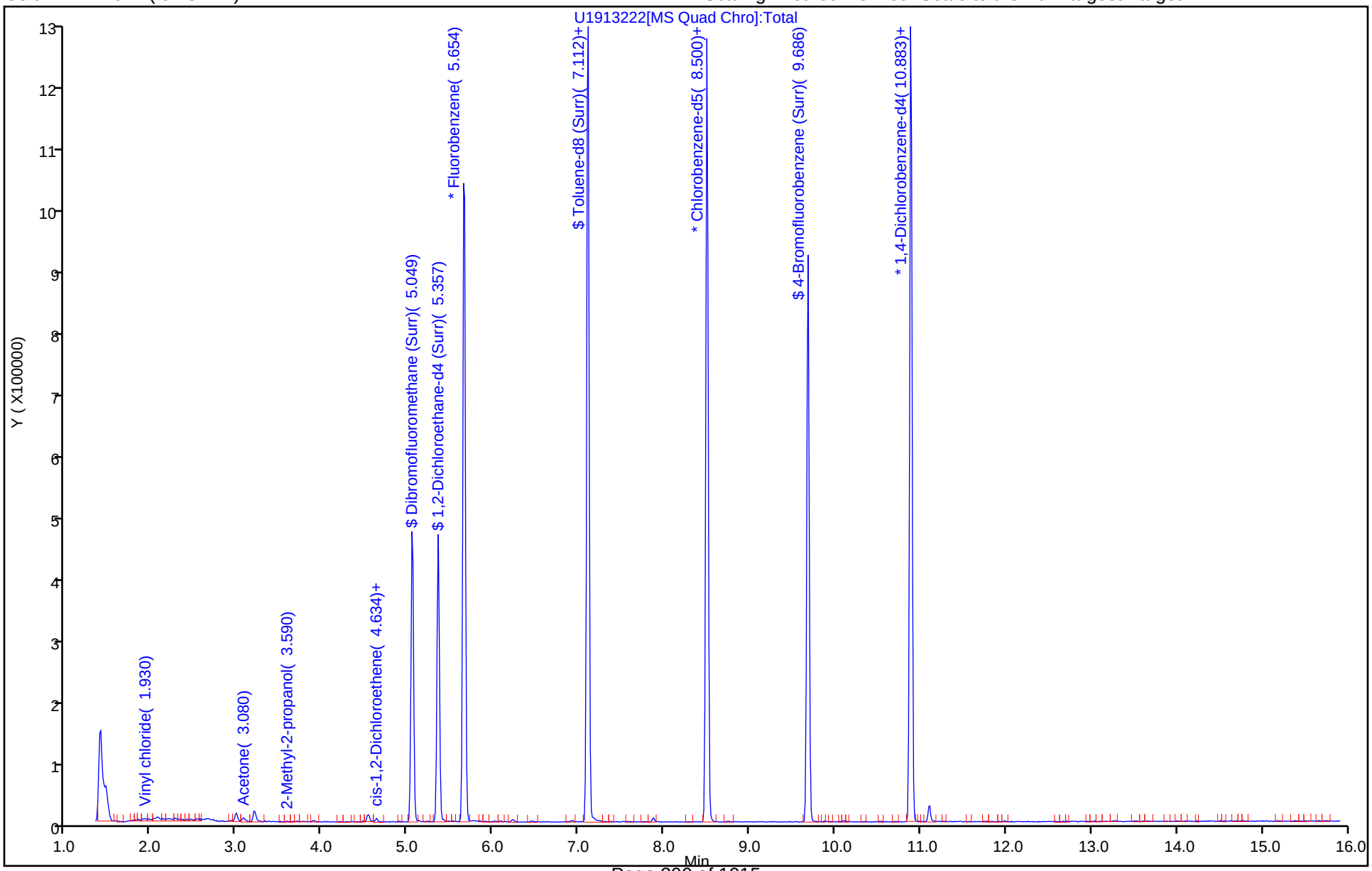
Report Date: 06-Mar-2020 12:54:50 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913222.d

Injection Date:	06-Mar-2020 00:31:57	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-9	Lab Sample ID:	240-127107-9	Worklist Smp#:	19
Client ID:	MSA-SW40A-030320				
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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913222.d
Lims ID: 240-127107-B-9
Client ID: MSA-SW40A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 00:31:57 ALS Bottle#: 0 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-019
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:54:26 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:54:50

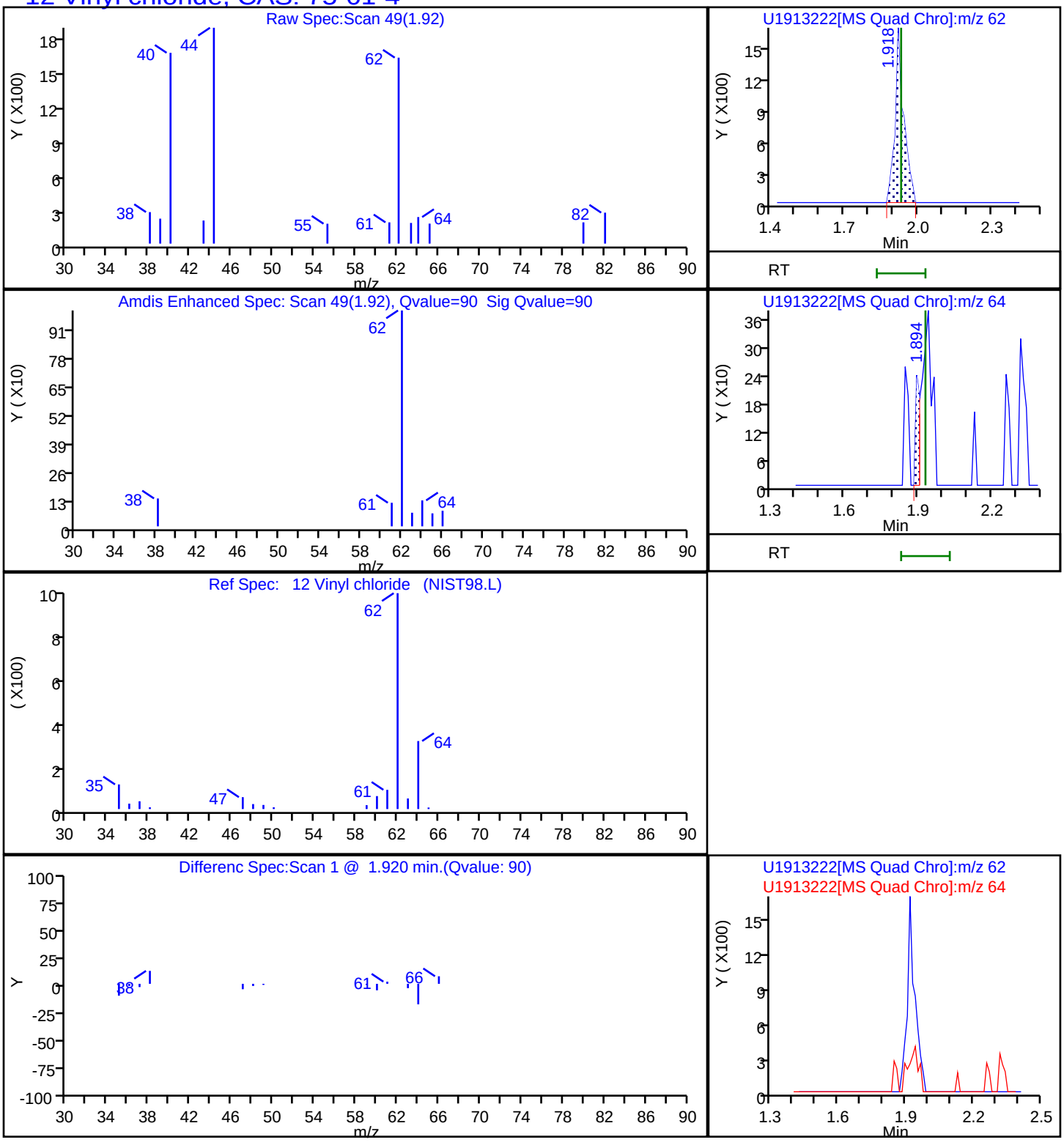
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.3	106.75
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.0	99.80
$ 6 Toluene-d8 (Surr)	20.0	19.7	98.44
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.8	88.78

Report Date: 06-Mar-2020 12:54:50 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913222.d				
Injection Date:	06-Mar-2020 00:31:57	Instrument ID:	A3UX19		
Lims ID:	240-127107-B-9	Lab Sample ID:	240-127107-9		
Client ID:	MSA-SW40A-030320				
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		

12 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Matrix: Water Lab File ID: U1913223.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:24

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:54

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Matrix: Water Lab File ID: U1913223.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:24

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:54

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Matrix: Water Lab File ID: U1913223.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:24

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:54

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		75-130
460-00-4	4-Bromofluorobenzene (Surr)	89		47-134
2037-26-5	Toluene-d8 (Surr)	96		69-122
1868-53-7	Dibromofluoromethane (Surr)	102		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Matrix: Water Lab File ID: U1913223.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:24

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:54

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40B-030320 Lab Sample ID: 240-127107-10

Matrix: Water Lab File ID: U1913223.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:24

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 00:54

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.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913223.d
Lims ID: 240-127107-B-10
Client ID: MSA-SW40B-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 00:54:26 ALS Bottle#: 0 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-020
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:54:26 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:55:11

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	1116985	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	896313	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	94	450378	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	93	307968	20.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	97	324905	18.8	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	93	1029834	19.2	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	92	360412	17.8	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62	1.942	1.930	0.012	9	2162	0.1299	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	99	7768	1.77	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59		3.578				ND	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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	7.171	7.172	-0.001	96	10751	0.1775	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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	

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

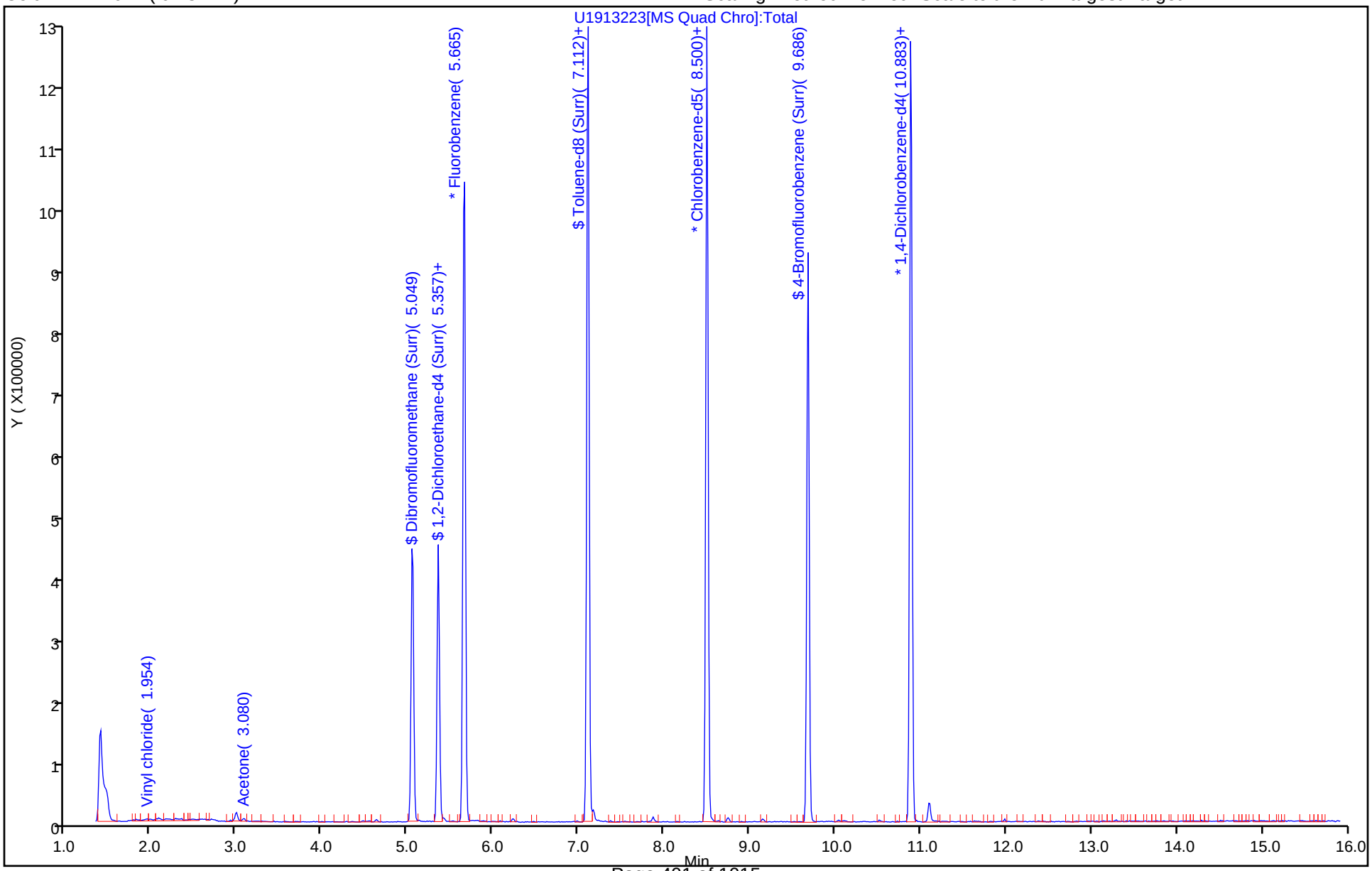
Report Date: 06-Mar-2020 12:55:11 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913223.d

Injection Date:	06-Mar-2020 00:54:26	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-10	Lab Sample ID:	240-127107-10	Worklist Smp#:	20
Client ID:	MSA-SW40B-030320				
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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913223.d
Lims ID: 240-127107-B-10
Client ID: MSA-SW40B-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 00:54:26 ALS Bottle#: 0 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-020
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:54:26 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:55:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.5	102.42
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.8	94.07
$ 6 Toluene-d8 (Surr)	20.0	19.2	95.80
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.8	89.10

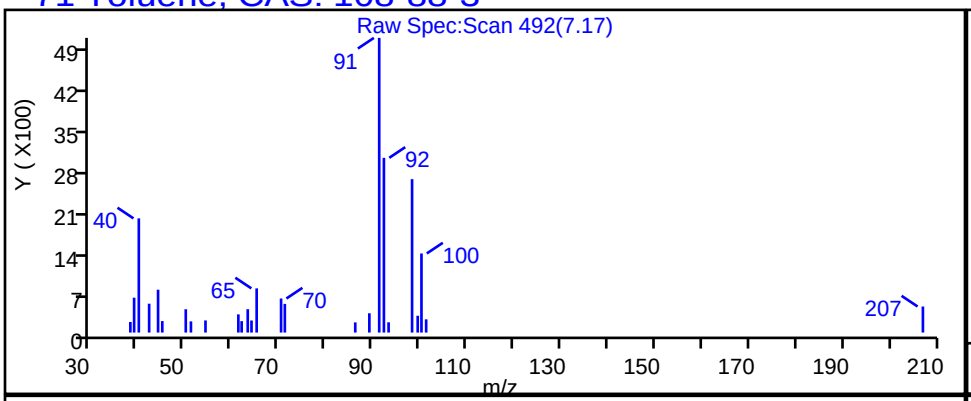
Report Date: 06-Mar-2020 12:55:11 Chrom Revision: 2.3 19-Feb-2020 16:45:46

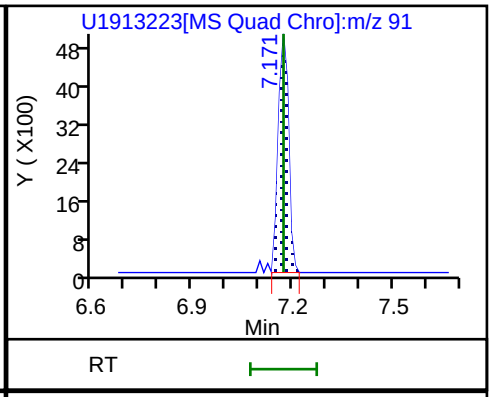
Eurofins TestAmerica, Canton

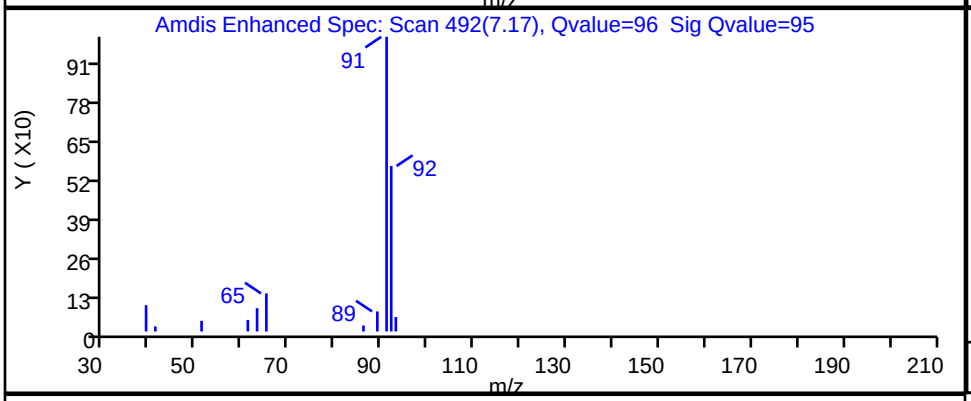
Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913223.d

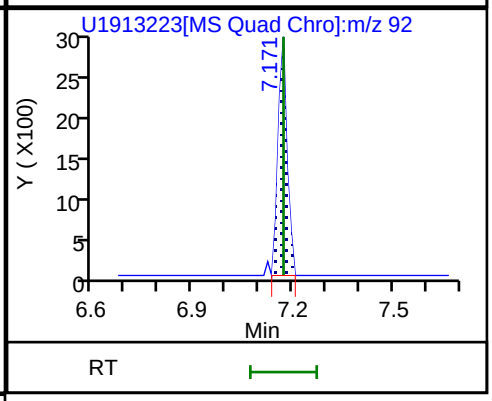
Injection Date:	06-Mar-2020 00:54:26	Instrument ID:	A3UX19		
Lims ID:	240-127107-B-10	Lab Sample ID:	240-127107-10		
Client ID:	MSA-SW40B-030320				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

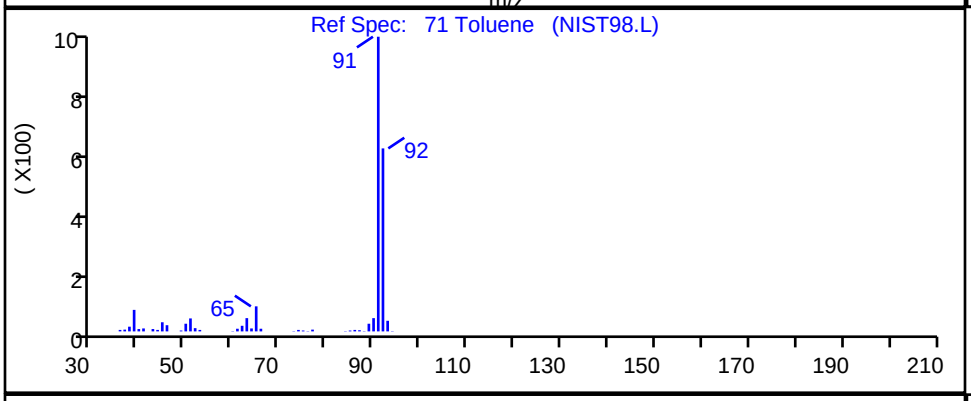
71 Toluene, CAS: 108-88-3

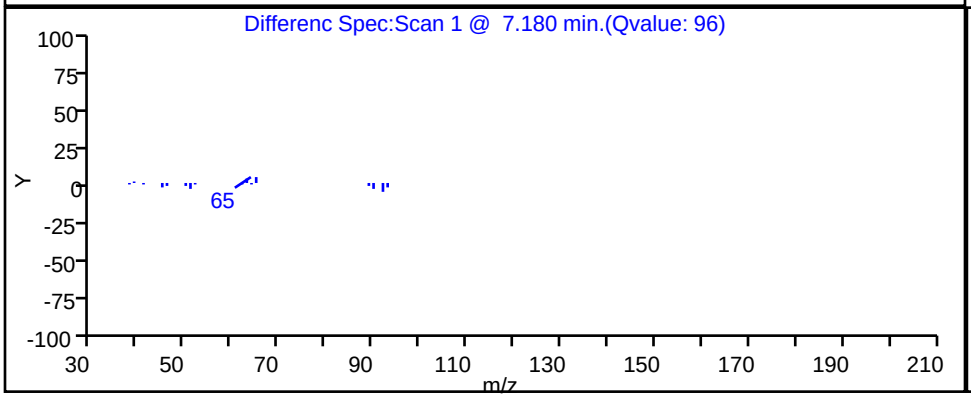


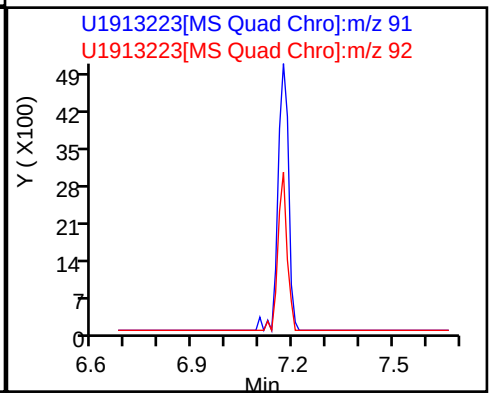












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Matrix: Water Lab File ID: U1913224.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Matrix: Water Lab File ID: U1913224.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.21	J	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Matrix: Water Lab File ID: U1913224.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
460-00-4	4-Bromofluorobenzene (Surr)	92		47-134
2037-26-5	Toluene-d8 (Surr)	99		69-122
1868-53-7	Dibromofluoromethane (Surr)	107		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Matrix: Water Lab File ID: U1913224.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:16

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40C-030320 Lab Sample ID: 240-127107-11

Matrix: Water Lab File ID: U1913224.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:16

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.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913224.d
Lims ID: 240-127107-B-11
Client ID: MSA-SW40C-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 01:16:42 ALS Bottle#: 0 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-021
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:54:26 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:55:54

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	100	1071328	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	848781	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	94	424843	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.061	5.049	0.012	93	307253	21.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	97	329312	19.9	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	92	1006806	19.8	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	93	352533	18.4	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62	1.942	1.930	0.012	29	3287	0.2059	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.092	3.080	0.012	87	7686	1.83	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.590	3.578	0.012	40	1159	0.7990	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96	4.646	4.634	0.012	79	1633	0.1055	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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	

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

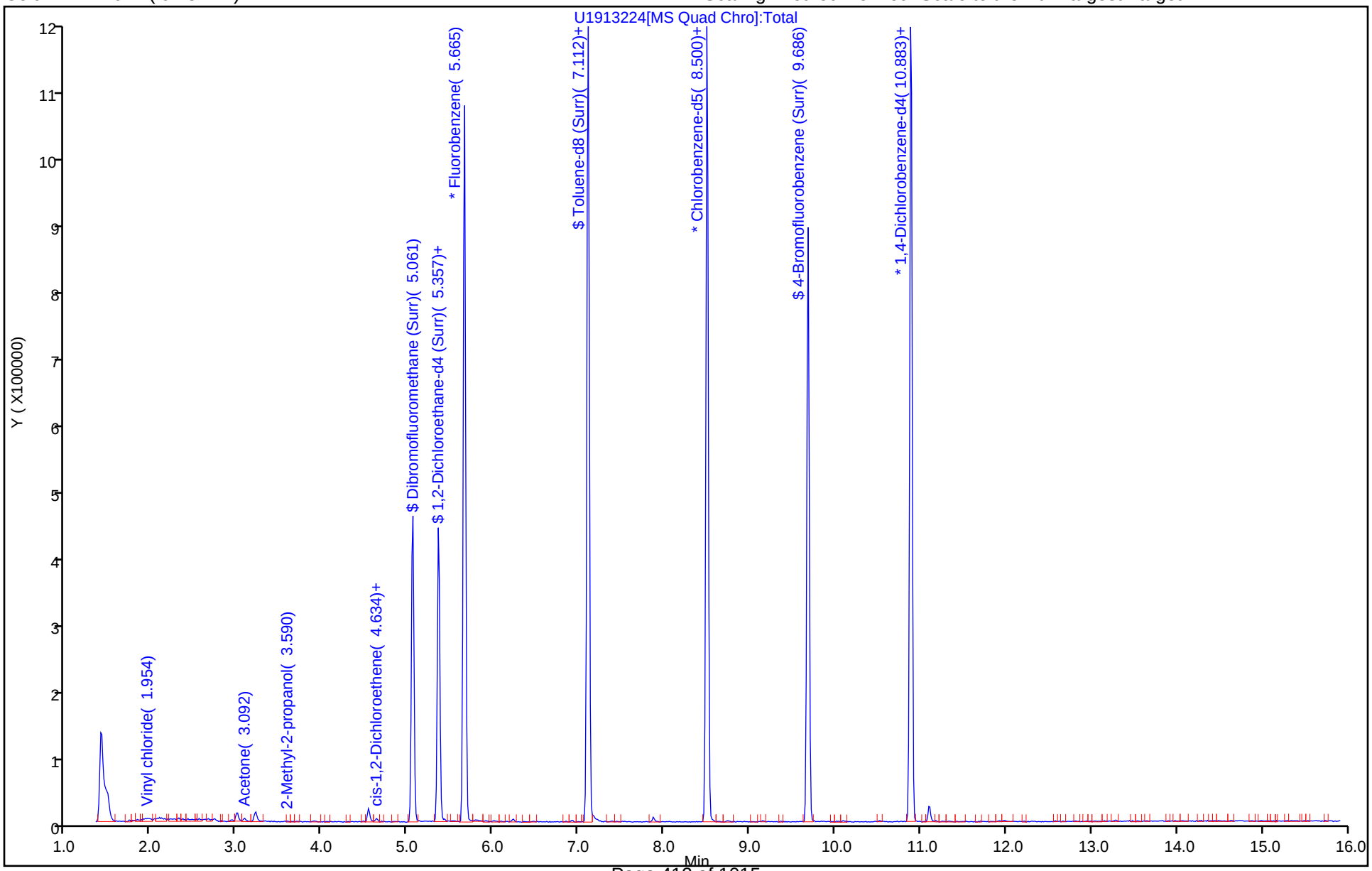
Report Date: 06-Mar-2020 12:55:55 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913224.d

Injection Date:	06-Mar-2020 01:16:42	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-11	Lab Sample ID:	240-127107-11	Worklist Smp#:	21
Client ID:	MSA-SW40C-030320				
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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913224.d
Lims ID: 240-127107-B-11
Client ID: MSA-SW40C-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 01:16:42 ALS Bottle#: 0 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-021
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:54:26 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:55:54

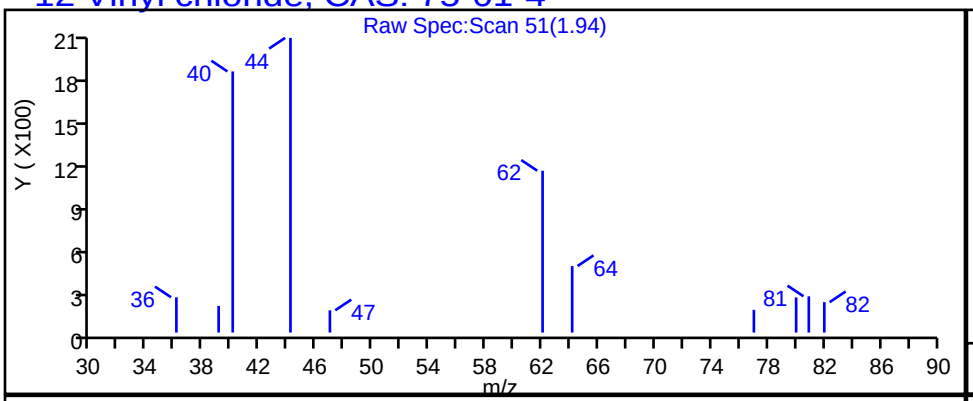
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.3	106.54
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.9	99.41
$ 6 Toluene-d8 (Surr)	20.0	19.8	98.91
$ 7 4-Bromofluorobenzene (Surr)	20.0	18.4	92.03

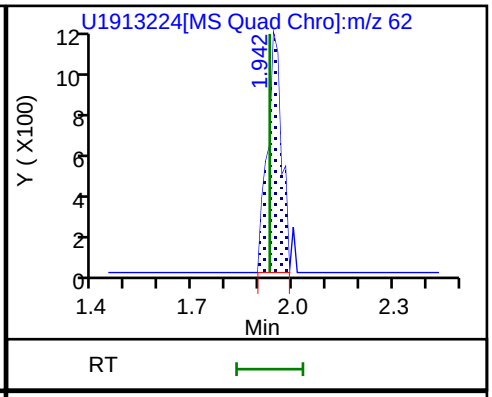
Report Date: 06-Mar-2020 12:55:55 Chrom Revision: 2.3 19-Feb-2020 16:45:46

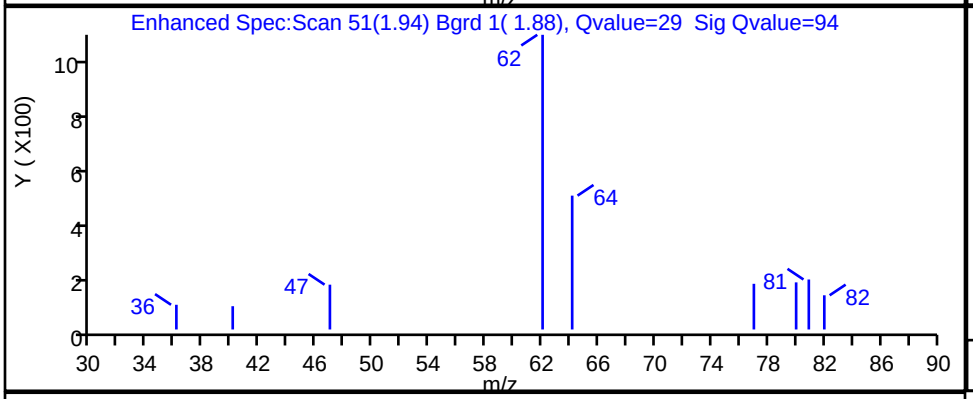
Eurofins TestAmerica, Canton

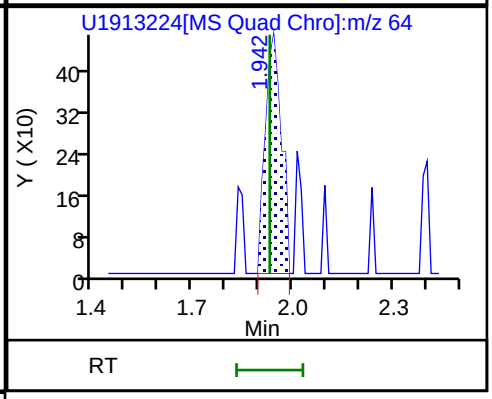
Data File:	\\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913224.d				
Injection Date:	06-Mar-2020 01:16:42	Instrument ID:	A3UX19		
Lims ID:	240-127107-B-11	Lab Sample ID:	240-127107-11		
Client ID:	MSA-SW40C-030320				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

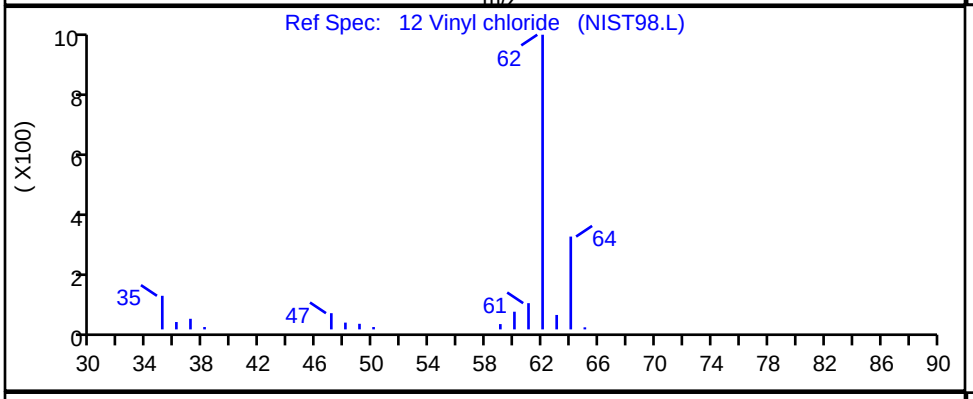
12 Vinyl chloride, CAS: 75-01-4

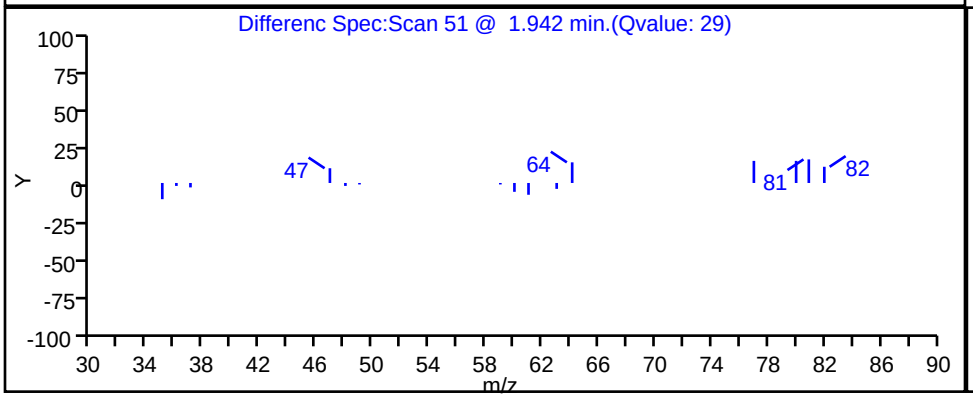


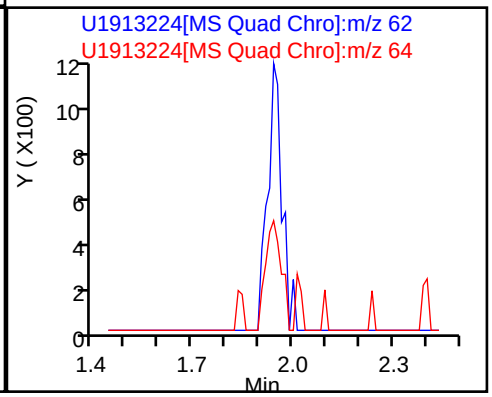












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Matrix: Water Lab File ID: U1913225.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Matrix: Water Lab File ID: U1913225.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Matrix: Water Lab File ID: U1913225.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
460-00-4	4-Bromofluorobenzene (Surr)	90		47-134
2037-26-5	Toluene-d8 (Surr)	99		69-122
1868-53-7	Dibromofluoromethane (Surr)	104		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Matrix: Water Lab File ID: U1913225.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW40D-030320 Lab Sample ID: 240-127107-12

Matrix: Water Lab File ID: U1913225.d

Analysis Method: 8260C Date Collected: 03/03/2020 09:29

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 01:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913225.d
Lims ID: 240-127107-B-12
Client ID: MSA-SW40D-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 01:39:09 ALS Bottle#: 0 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-022
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:54:26 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:56:28

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	1072564	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	83	862624	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	94	426568	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	93	299646	20.8	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	97	327489	19.8	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	92	1020388	19.7	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	94	351249	18.0	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62	1.942	1.930	0.012	15	2912	0.1822	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	94	8391	2.00	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.578	3.578	0.000	28	1115	0.7677	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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	

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

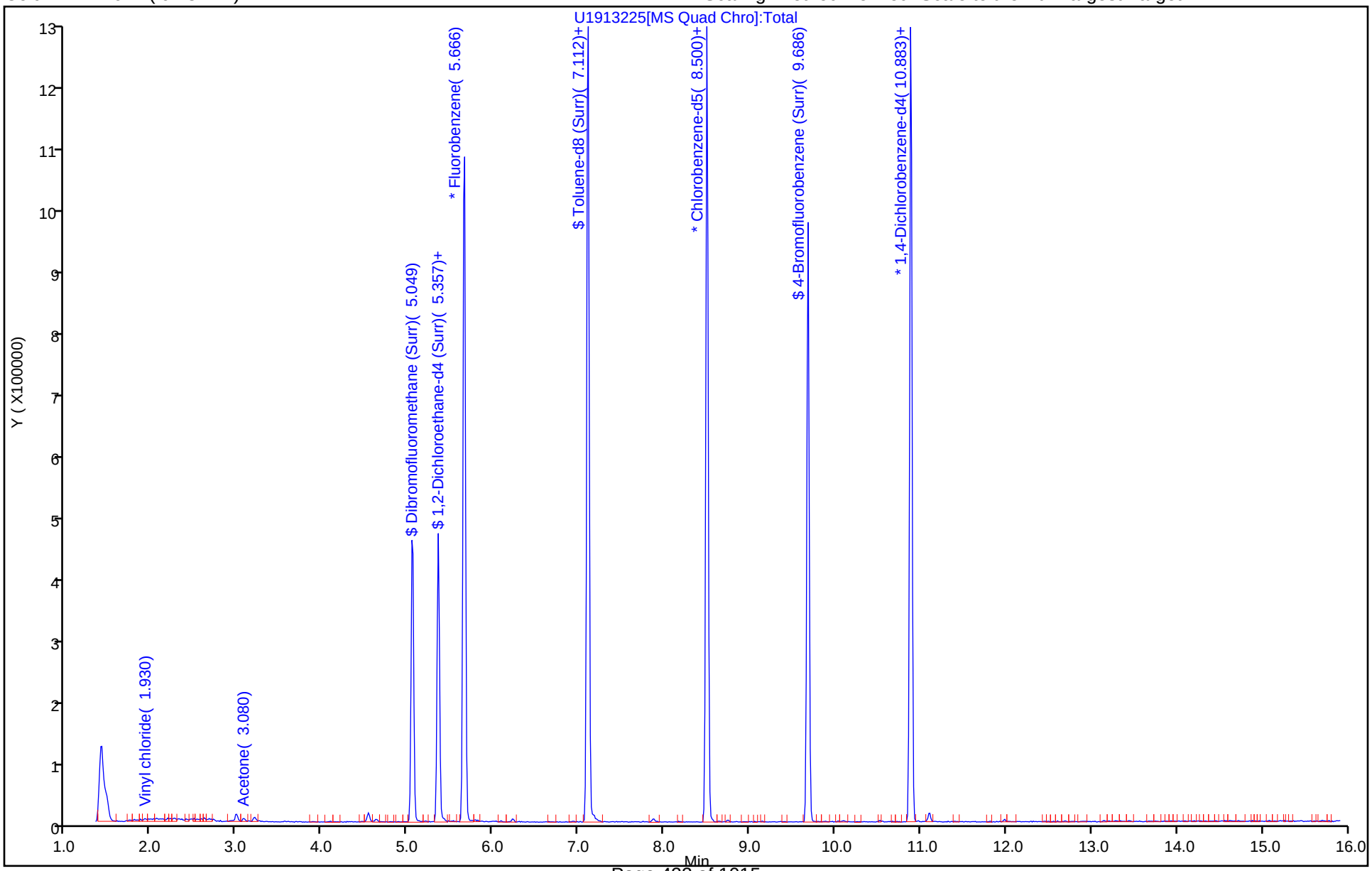
Report Date: 06-Mar-2020 12:56:28 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913225.d

Injection Date:	06-Mar-2020 01:39:09	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-12	Lab Sample ID:	240-127107-12	Worklist Smp#:	22
Client ID:	MSA-SW40D-030320				
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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913225.d
Lims ID: 240-127107-B-12
Client ID: MSA-SW40D-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 01:39:09 ALS Bottle#: 0 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-022
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:54:26 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:56:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.8	103.78
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.8	98.75
$ 6 Toluene-d8 (Surr)	20.0	19.7	98.63
$ 7 4-Bromofluorobenzene (Surr)	20.0	18.0	90.23

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Matrix: Water Lab File ID: U1913226.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:44

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:01

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Matrix: Water Lab File ID: U1913226.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:44

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:01

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Matrix: Water Lab File ID: U1913226.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:44

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:01

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	96		47-134
2037-26-5	Toluene-d8 (Surr)	103		69-122
1868-53-7	Dibromofluoromethane (Surr)	107		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Matrix: Water Lab File ID: U1913226.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:44

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:01

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41A-030320 Lab Sample ID: 240-127107-13

Matrix: Water Lab File ID: U1913226.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:44

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:01

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.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913226.d
Lims ID: 240-127107-B-13
Client ID: MSA-SW41A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 02:01:45 ALS Bottle#: 0 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-023
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:56:53 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:56:53

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	1060763	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	845531	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	95	419857	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	93	306804	21.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	97	341645	20.8	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	92	1042377	20.6	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	93	364437	19.1	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62	1.930	1.930	0.000	1	2130	0.1348	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	98	6259	1.51	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.590	3.578	0.012	6	357	0.2486	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	1	1878	0.1225	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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

Review Flags

U - Marked Undetected

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

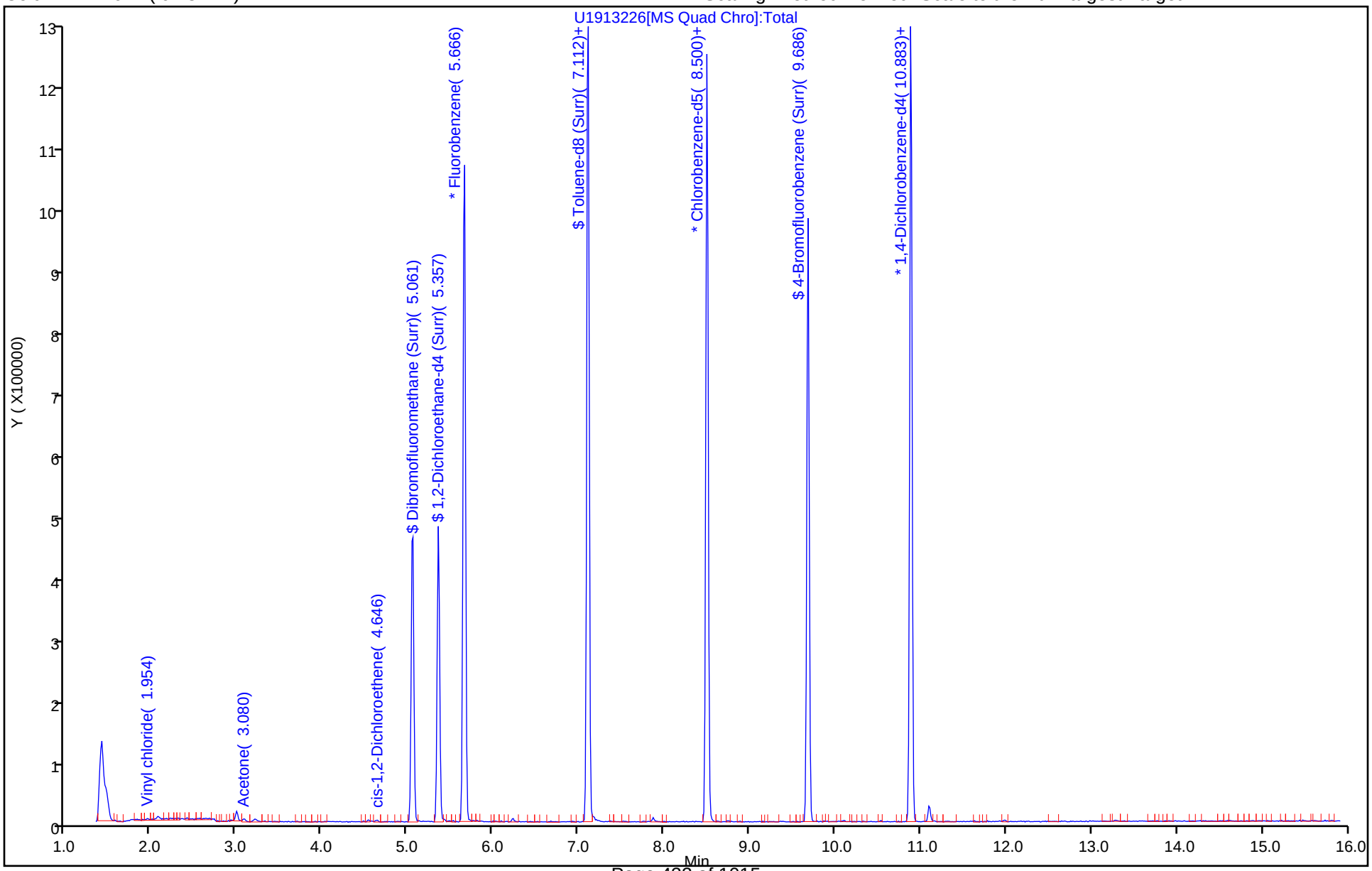
Report Date: 06-Mar-2020 12:56:53 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913226.d

Injection Date:	06-Mar-2020 02:01:45	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-13	Lab Sample ID:	240-127107-13	Worklist Smp#:	23
Client ID:	MSA-SW41A-030320				
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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913226.d
Lims ID: 240-127107-B-13
Client ID: MSA-SW41A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 02:01:45 ALS Bottle#: 0 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-023
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:56:53 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:56:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.5	107.44
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.8	104.16
$ 6 Toluene-d8 (Surr)	20.0	20.6	102.80
$ 7 4-Bromofluorobenzene (Surr)	20.0	19.1	95.51

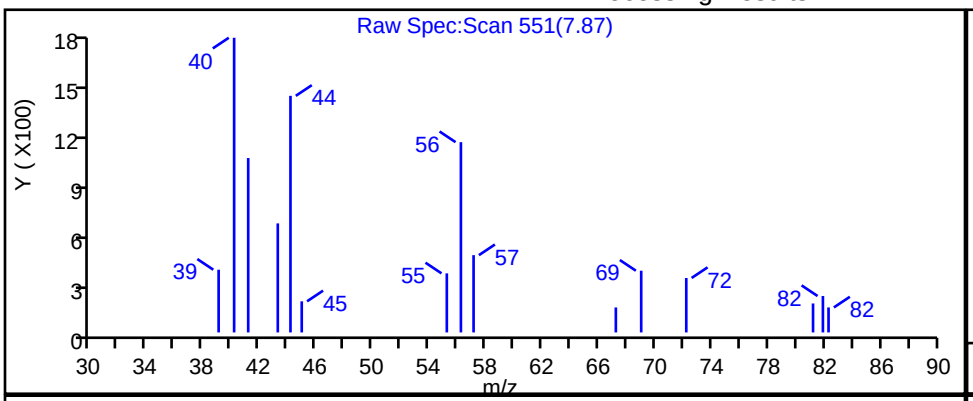
User Disabled Compound Report

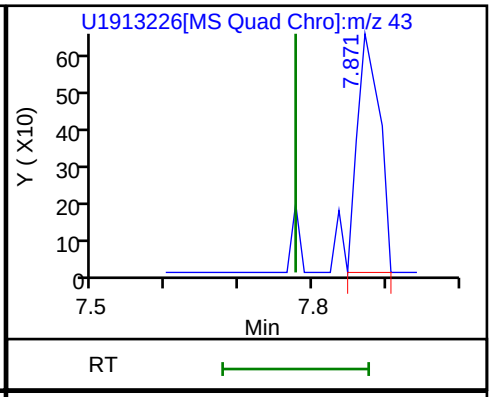
Eurofins TestAmerica, Canton

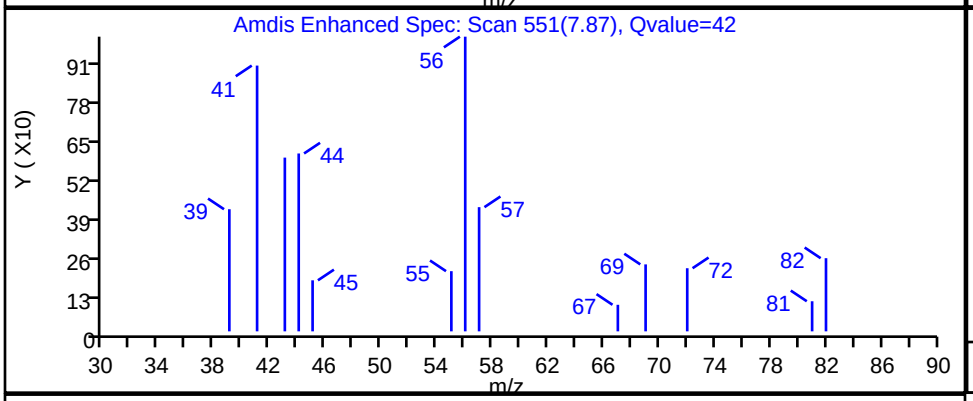
Data File:	\\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913226.d				
Injection Date:	06-Mar-2020 02:01:45	Instrument ID:	A3UX19		
Lims ID:	240-127107-B-13	Lab Sample ID:	240-127107-13		
Client ID:	MSA-SW41A-030320				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

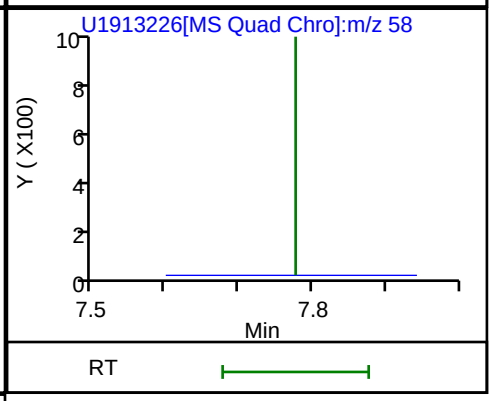
77 2-Hexanone, CAS: 591-78-6

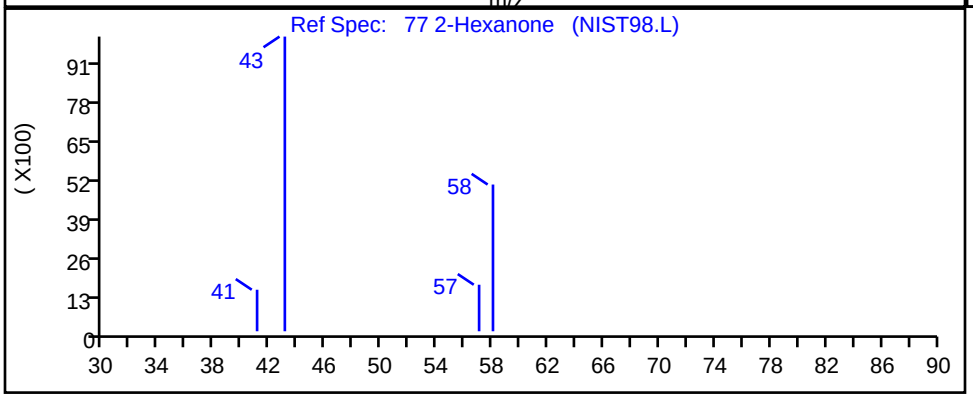
Processing Results











RT	Mass	Response	Amount
7.87	43.00	1394	0.104714
7.78	58.00	0	

Reviewer: laveyt, 06-Mar-2020 12:56:47

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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Matrix: Water Lab File ID: U1913227.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:49

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Matrix: Water Lab File ID: U1913227.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:49

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Matrix: Water Lab File ID: U1913227.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:49

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		75-130
460-00-4	4-Bromofluorobenzene (Surr)	88		47-134
2037-26-5	Toluene-d8 (Surr)	97		69-122
1868-53-7	Dibromofluoromethane (Surr)	105		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Matrix: Water Lab File ID: U1913227.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:49

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:24

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.: 425546 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41B-030320 Lab Sample ID: 240-127107-14

Matrix: Water Lab File ID: U1913227.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:49

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:24

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.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913227.d
Lims ID: 240-127107-B-14
Client ID: MSA-SW41B-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 02:24:23 ALS Bottle#: 0 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-024
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:57:19 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:57:19

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	1085050	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	868233	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	95	432866	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.061	5.049	0.012	93	305378	20.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	98	332332	19.8	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	92	1009598	19.4	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	92	345381	17.6	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62	1.930	1.930	0.000	20	2182	0.1350	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	99	9781	2.30	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.578	3.578	0.000	29	509	0.3464	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	1	1718	0.1095	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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

Review Flags

U - Marked Undetected

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

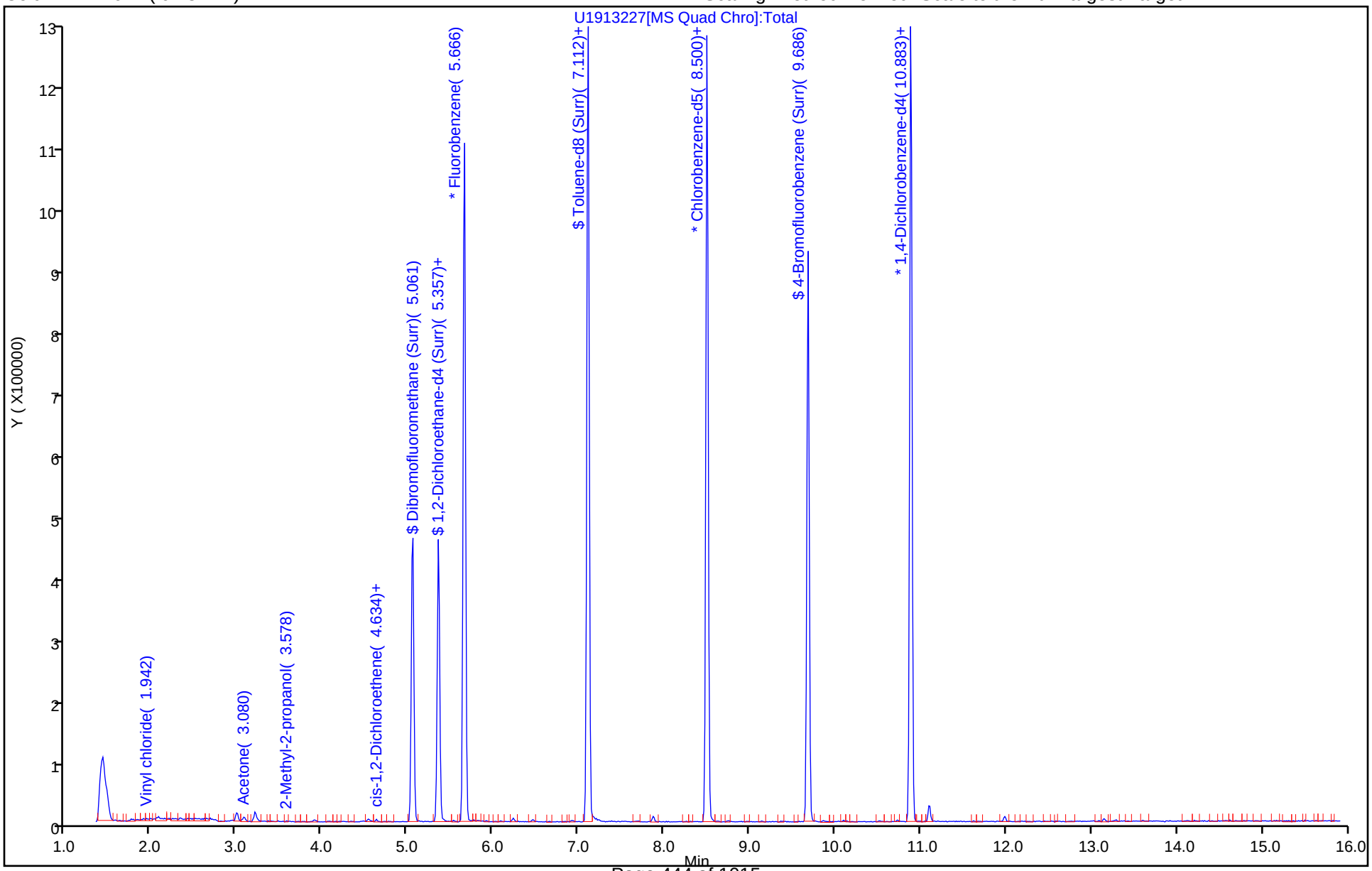
Report Date: 06-Mar-2020 12:57:20 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913227.d

Injection Date:	06-Mar-2020 02:24:23	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-14	Lab Sample ID:	240-127107-14	Worklist Smp#:	24
Client ID:	MSA-SW41B-030320				
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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913227.d
Lims ID: 240-127107-B-14
Client ID: MSA-SW41B-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 02:24:23 ALS Bottle#: 0 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-024
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:57:19 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:57:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.9	104.55
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.8	99.06
$ 6 Toluene-d8 (Surr)	20.0	19.4	96.96
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.6	88.15

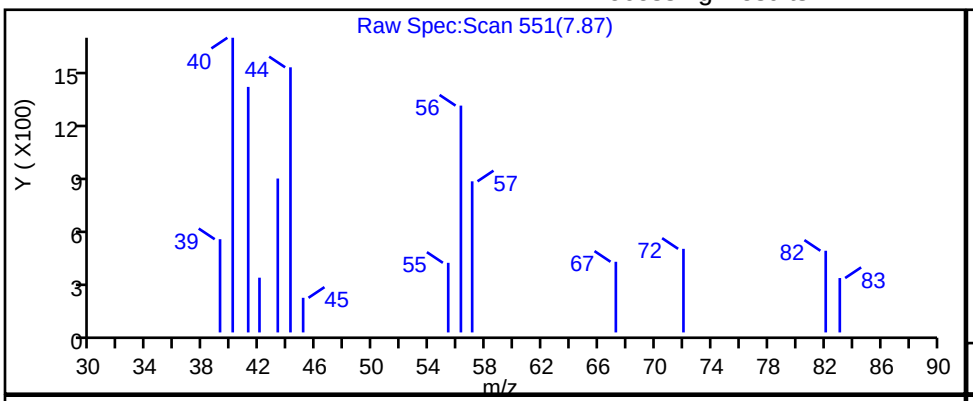
User Disabled Compound Report

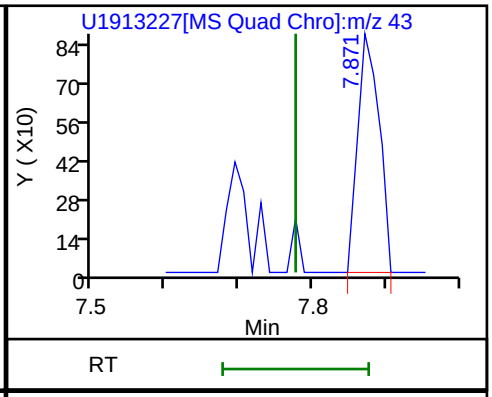
Eurofins TestAmerica, Canton

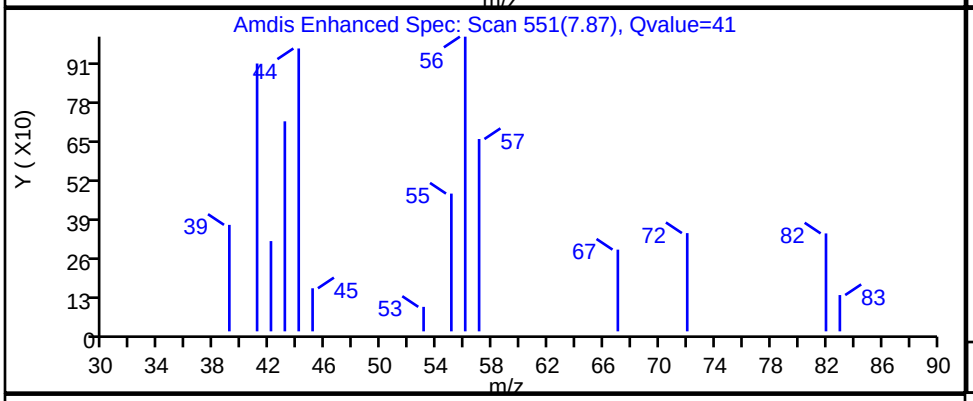
Data File:	\\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913227.d				
Injection Date:	06-Mar-2020 02:24:23	Instrument ID:	A3UX19		
Lims ID:	240-127107-B-14	Lab Sample ID:	240-127107-14		
Client ID:	MSA-SW41B-030320				
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

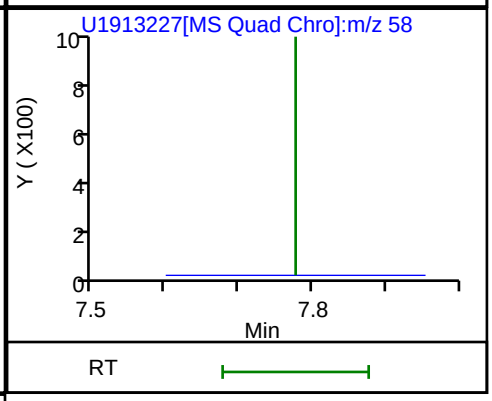
77 2-Hexanone, CAS: 591-78-6

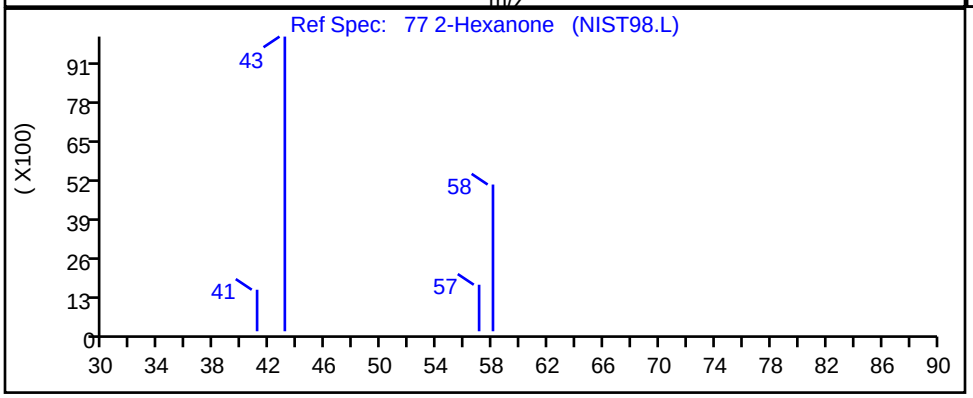
Processing Results











RT	Mass	Response	Amount
7.87	43.00	1789	0.130871
7.78	58.00	0	

Reviewer: laveyt, 06-Mar-2020 12:57:14

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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Matrix: Water Lab File ID: U1913228.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:51

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:46

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Matrix: Water Lab File ID: U1913228.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:51

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:46

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Matrix: Water Lab File ID: U1913228.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:51

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:46

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		75-130
460-00-4	4-Bromofluorobenzene (Surr)	86		47-134
2037-26-5	Toluene-d8 (Surr)	96		69-122
1868-53-7	Dibromofluoromethane (Surr)	100		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Matrix: Water Lab File ID: U1913228.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:51

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:46

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.: 425546 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I-TIC 8260C

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41C-030320 Lab Sample ID: 240-127107-15

Matrix: Water Lab File ID: U1913228.d

Analysis Method: 8260C Date Collected: 03/03/2020 08:51

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 02:46

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.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913228.d
Lims ID: 240-127107-B-15
Client ID: MSA-SW41C-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 02:46:50 ALS Bottle#: 0 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-025
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:57:19 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:57:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.666	-0.012	99	1092163	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	871999	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	95	431993	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	92	294946	20.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	97	322245	19.1	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	92	1000821	19.1	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	92	338434	17.2	
9 Dichlorodifluoromethane	85		1.622				ND	
10 Chloromethane	50		1.823				ND	
12 Vinyl chloride	62		1.930				ND	
13 Bromomethane	94		2.227				ND	
15 Chloroethane	64		2.321				ND	
17 Trichlorofluoromethane	101		2.570				ND	
20 1,1-Dichloroethene	61		3.045				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069				ND	
22 Acetone	43	3.080	3.080	0.000	98	11855	2.77	
25 Carbon disulfide	76		3.258				ND	
29 Methylene Chloride	49		3.484				ND	
30 2-Methyl-2-propanol	59	3.567	3.578	-0.011	24	1309	0.8852	
32 trans-1,2-Dichloroethene	61		3.744				ND	
33 Methyl tert-butyl ether	73		3.744				ND	
35 1,1-Dichloroethane	63		4.112				ND	
36 Vinyl acetate	43		4.160				ND	
37 Isopropyl ether	87		4.183				ND	
39 Tert-butyl ethyl ether	59		4.503				ND	
41 cis-1,2-Dichloroethene	96		4.634				ND	
40 2-Butanone (MEK)	72		4.634				ND	
42 2,2-Dichloropropane	77		4.634				ND	
46 Chlorobromomethane	49		4.847				ND	
48 Chloroform	83		4.907				ND	
49 1,1,1-Trichloroethane	97		5.096				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				ND	
72 trans-1,3-Dichloropropene	75		7.361				ND	
76 1,3-Dichloropropane	76		7.705				ND	
75 Tetrachloroethene	166		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		8.607				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		9.520				ND	
93 1,1,2,2-Tetrachloroethane	83		9.816				ND	
95 Bromobenzene	156		9.840				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		10.468				ND	
105 1,2,4-Trimethylbenzene	105		10.528				ND	
106 sec-Butylbenzene	105		10.706				ND	
107 1,3-Dichlorobenzene	146		10.824				ND	
108 4-Isopropyltoluene	119		10.848				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-Chloropropan	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	

Reagents:

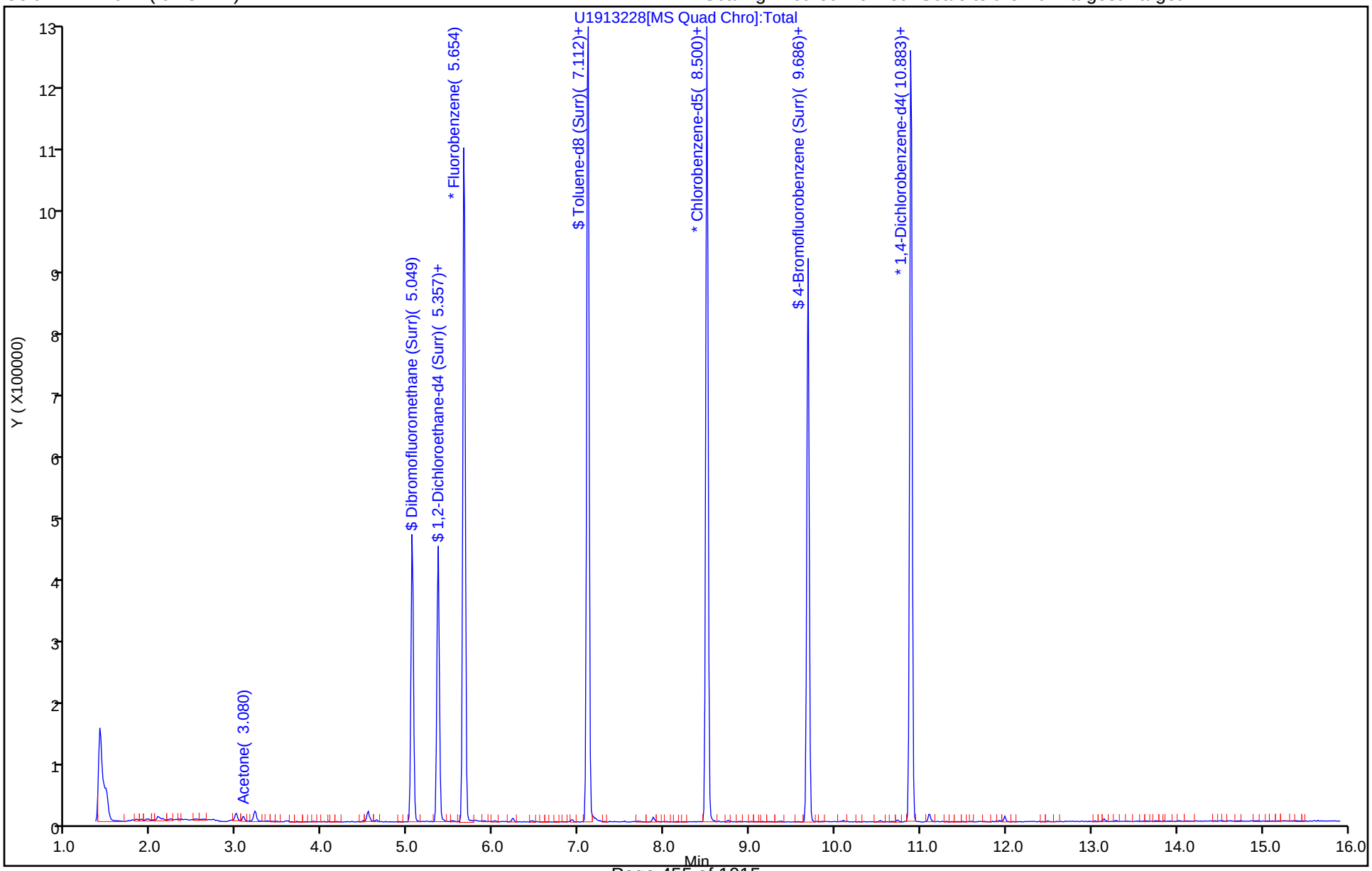
vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

Report Date: 06-Mar-2020 12:57:40 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913228.d				
Injection Date:	06-Mar-2020 02:46:50	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	240-127107-B-15	Lab Sample ID:	240-127107-15	Worklist Smp#:	25
Client ID:	MSA-SW41C-030320				
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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913228.d
Lims ID: 240-127107-B-15
Client ID: MSA-SW41C-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 02:46:50 ALS Bottle#: 0 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-025
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:57:19 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0321

First Level Reviewer: laveyt Date: 06-Mar-2020 12:57:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.1	100.32
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.1	95.43
$ 6 Toluene-d8 (Surr)	20.0	19.1	95.70
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.2	86.00

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Matrix: Water Lab File ID: UXM27186.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:55

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:01

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Matrix: Water Lab File ID: UXM27186.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:55

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:01

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Matrix: Water Lab File ID: UXM27186.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:55

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:01

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	118		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Matrix: Water Lab File ID: UXM27186.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:55

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:01

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW41D-030320 Lab Sample ID: 240-127107-16

Matrix: Water Lab File ID: UXM27186.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:55

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:01

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.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27186.D
Lims ID: 240-127107-B-16
Client ID: MSA-SW41D-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 15:01:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-013
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 14:35:16 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 16:42:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.928	0.000	99	1015392	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	85	797820	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	391294	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	249801	23.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	275701	20.0	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	981355	18.8	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	89	390914	21.6	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50	1.956	1.956	0.000	90	2935	0.1342	
11 Vinyl chloride	62	2.074	2.074	0.000	94	2678	0.1209	
13 Bromomethane	94	2.430	2.418	0.012	79	3256	0.2272	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58		3.355				ND	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
50 1,1-Dichloropropene	75		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128	13.233	13.233	0.000	88	5474	0.1294	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

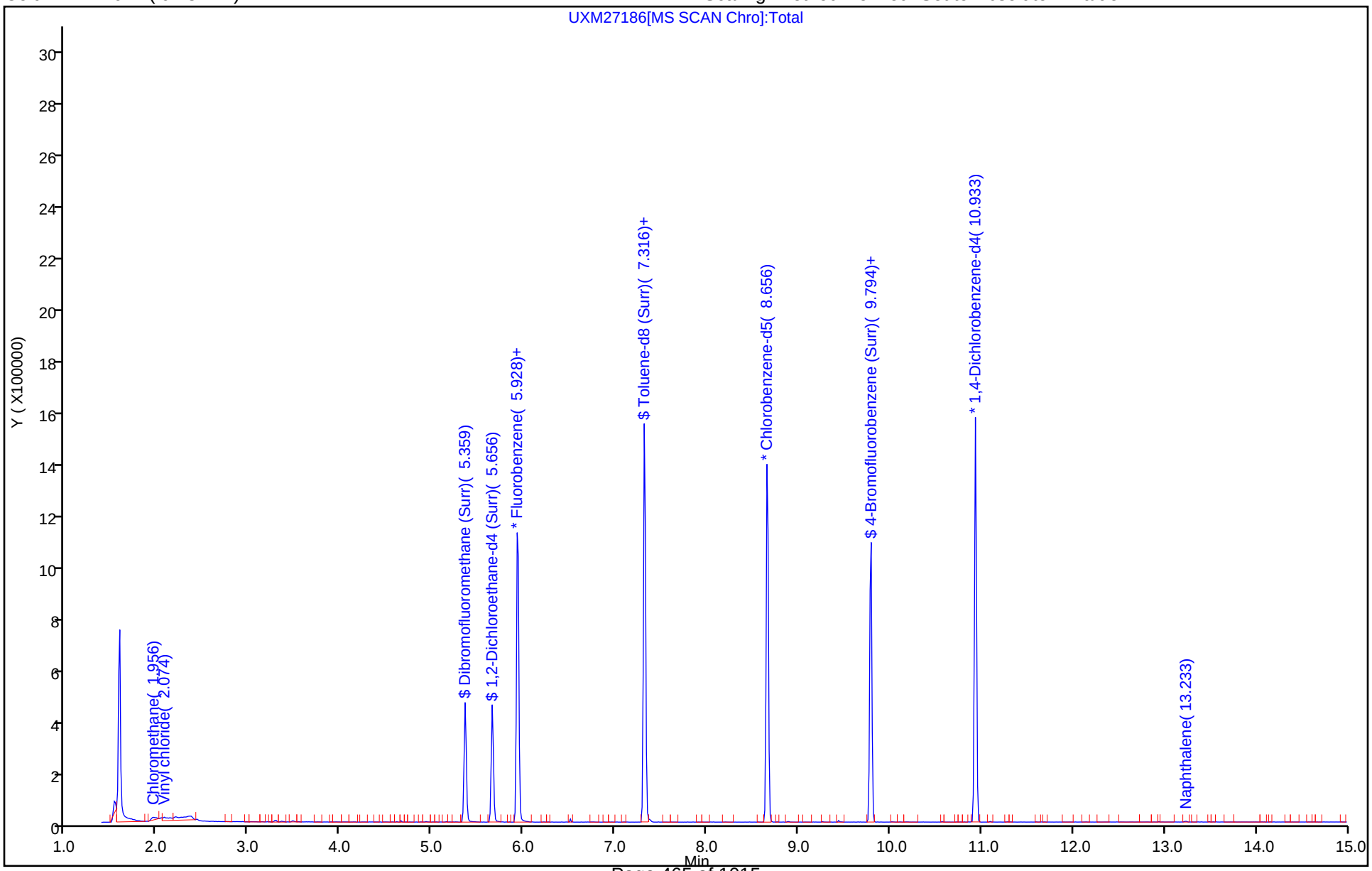
Report Date: 06-Mar-2020 16:42:48 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27186.D

Injection Date:	06-Mar-2020 15:01:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-16	Lab Sample ID:	240-127107-16	Worklist Smp#:	13
Client ID:	MSA-SW41D-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27186.D
Lims ID: 240-127107-B-16
Client ID: MSA-SW41D-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 15:01:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-013
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 14:35:16 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 16:42:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.6	117.96
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.0	100.08
$ 6 Toluene-d8 (Surr)	20.0	18.8	93.77
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.6	108.24

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Matrix: Water Lab File ID: UXM27187.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:25

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Matrix: Water Lab File ID: UXM27187.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:25

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.38	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0		0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Matrix: Water Lab File ID: UXM27187.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:25

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	118		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Matrix: Water Lab File ID: UXM27187.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:25

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42A-030320 Lab Sample ID: 240-127107-17

Matrix: Water Lab File ID: UXM27187.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:40

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:25

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.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27187.D
Lims ID: 240-127107-B-17
Client ID: MSA-SW42A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 15:25:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-014
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 06-Mar-2020 16:45:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.940	5.928	0.012	100	1010782	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	790861	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	381209	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	248693	23.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	284323	20.7	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	971844	18.7	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	88	388383	21.7	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.074	2.074	0.000	96	22373	1.01	
13 Bromomethane	94	2.430	2.418	0.012	80	2154	0.1510	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58	3.355	3.355	0.000	98	2651	0.9312	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96	4.932	4.932	0.000	81	5516	0.3842	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

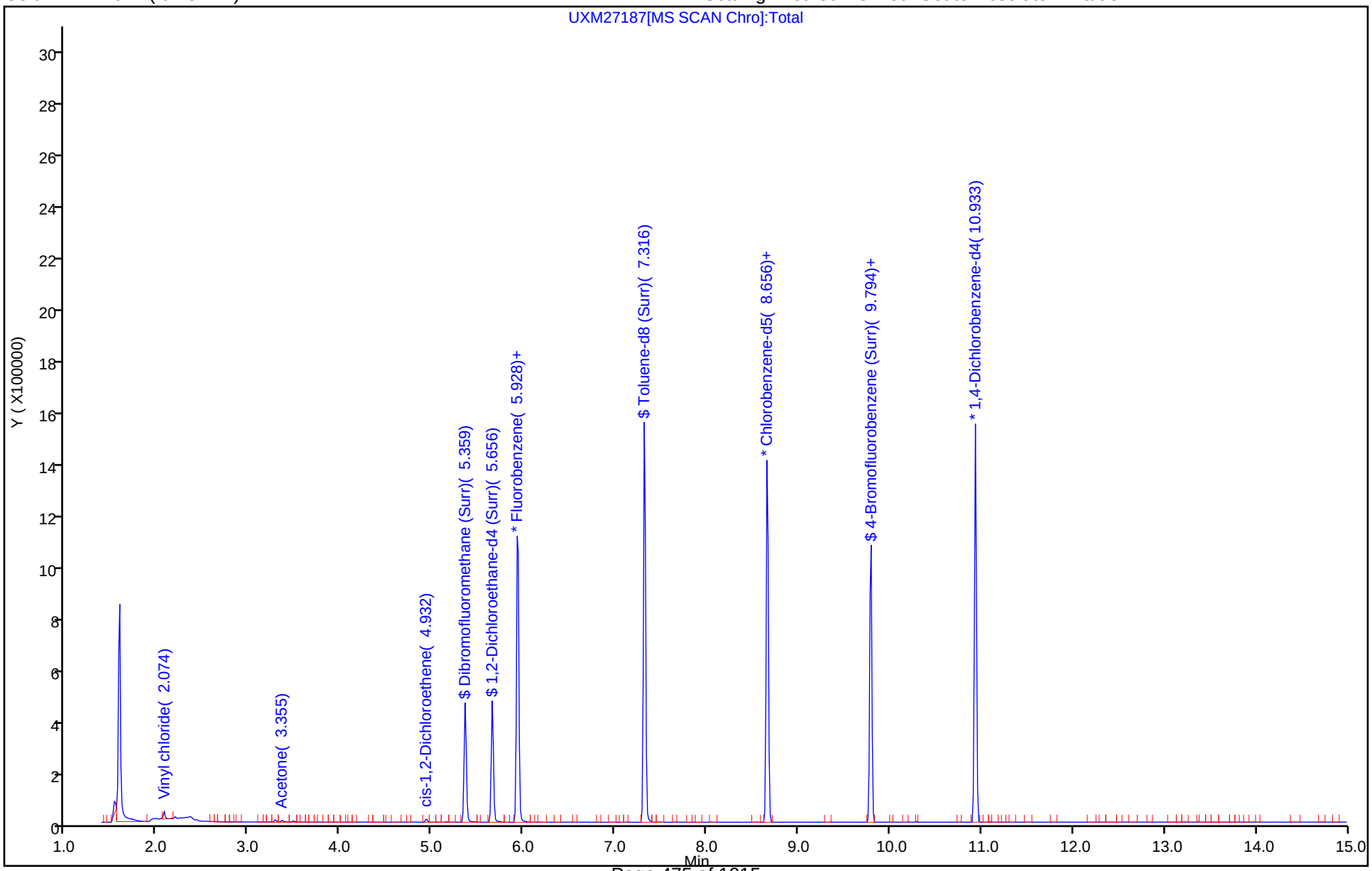
Report Date: 09-Mar-2020 09:48:53 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27187.D

Injection Date:	06-Mar-2020 15:25:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-17	Lab Sample ID:	240-127107-17	Worklist Smp#:	14
Client ID:	MSA-SW42A-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27187.D
Lims ID: 240-127107-B-17
Client ID: MSA-SW42A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 15:25:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-014
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 06-Mar-2020 16:45:07

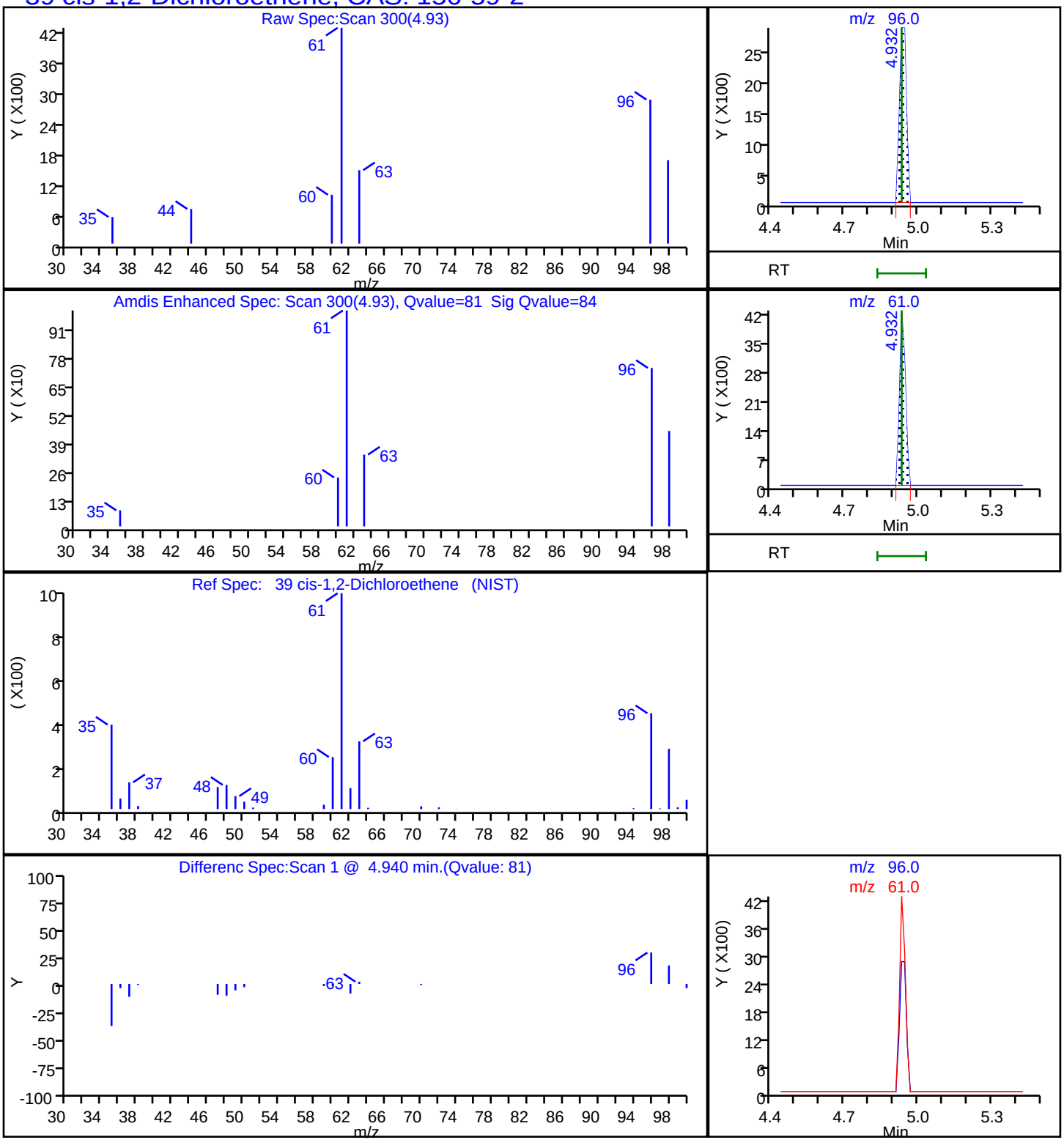
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.6	117.97
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.7	103.68
$ 6 Toluene-d8 (Surr)	20.0	18.7	93.68
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.7	108.49

Report Date: 09-Mar-2020 09:48:53 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27187.D				
Injection Date:	06-Mar-2020 15:25:30	Instrument ID:	A3UX16		
Lims ID:	240-127107-B-17	Lab Sample ID:	240-127107-17		
Client ID:	MSA-SW42A-030320				
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

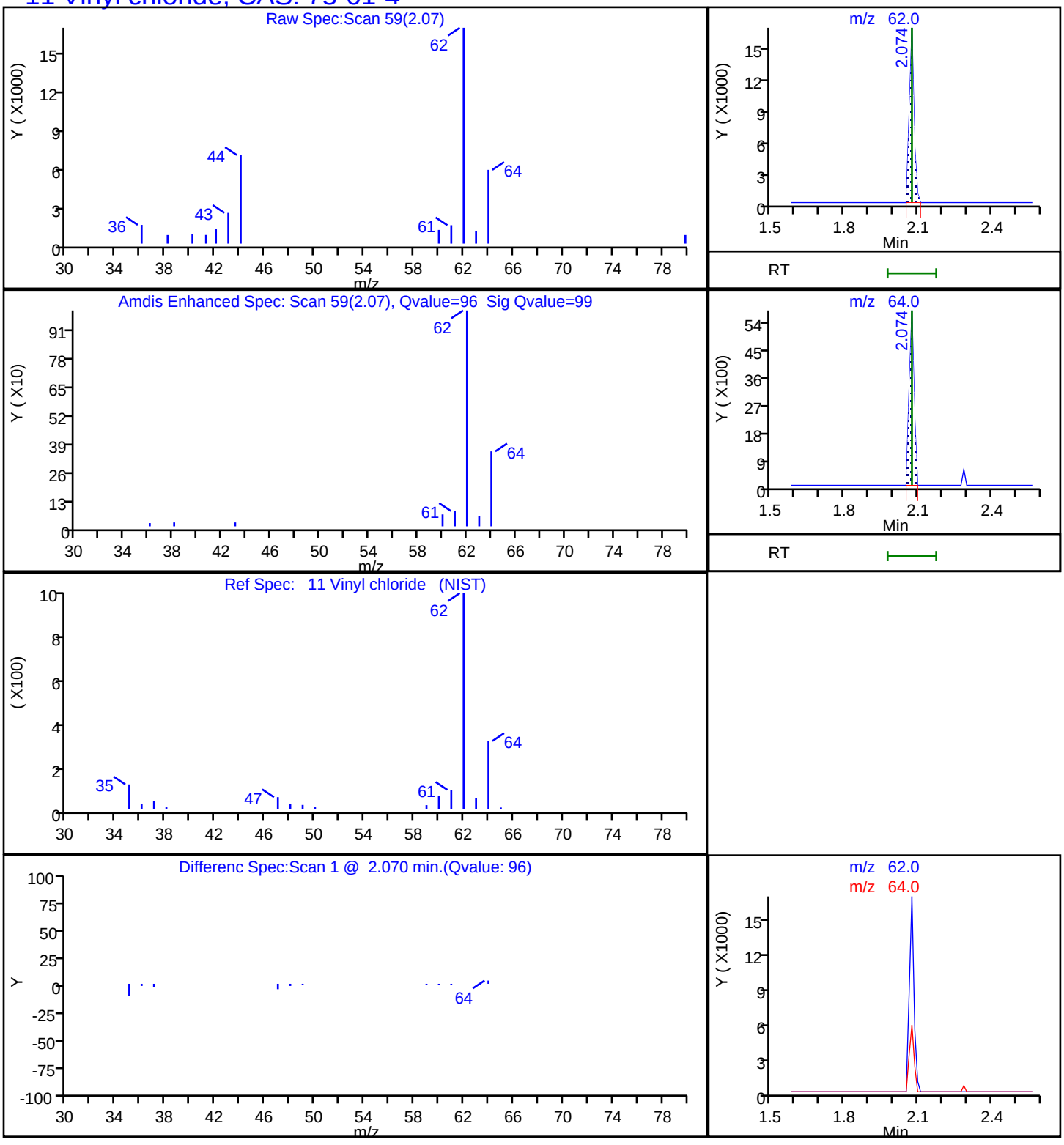


Report Date: 09-Mar-2020 09:48:53 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27187.D				
Injection Date:	06-Mar-2020 15:25:30	Instrument ID:	A3UX16		
Lims ID:	240-127107-B-17	Lab Sample ID:	240-127107-17		
Client ID:	MSA-SW42A-030320				
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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Matrix: Water Lab File ID: UXM27188.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:43

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:50

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Matrix: Water Lab File ID: UXM27188.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:43

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:50

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.28	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.64		0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Matrix: Water Lab File ID: UXM27188.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:43

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:50

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	117		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Matrix: Water Lab File ID: UXM27188.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:43

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:50

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42B-030320 Lab Sample ID: 240-127107-18

Matrix: Water Lab File ID: UXM27188.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:43

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 15:50

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.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27188.D
Lims ID: 240-127107-B-18
Client ID: MSA-SW42B-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 15:50:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-015
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 14:35:16 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 16:45:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.928	0.001	99	972943	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	764952	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	367130	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	237843	23.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	273824	20.7	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	932233	18.6	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	88	373645	21.6	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.075	2.074	0.001	96	13531	0.6375	
13 Bromomethane	94	2.430	2.418	0.012	77	1350	0.0983	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58		3.355				ND	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96	4.932	4.932	0.000	72	3872	0.2802	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
50 1,1-Dichloropropene	75		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

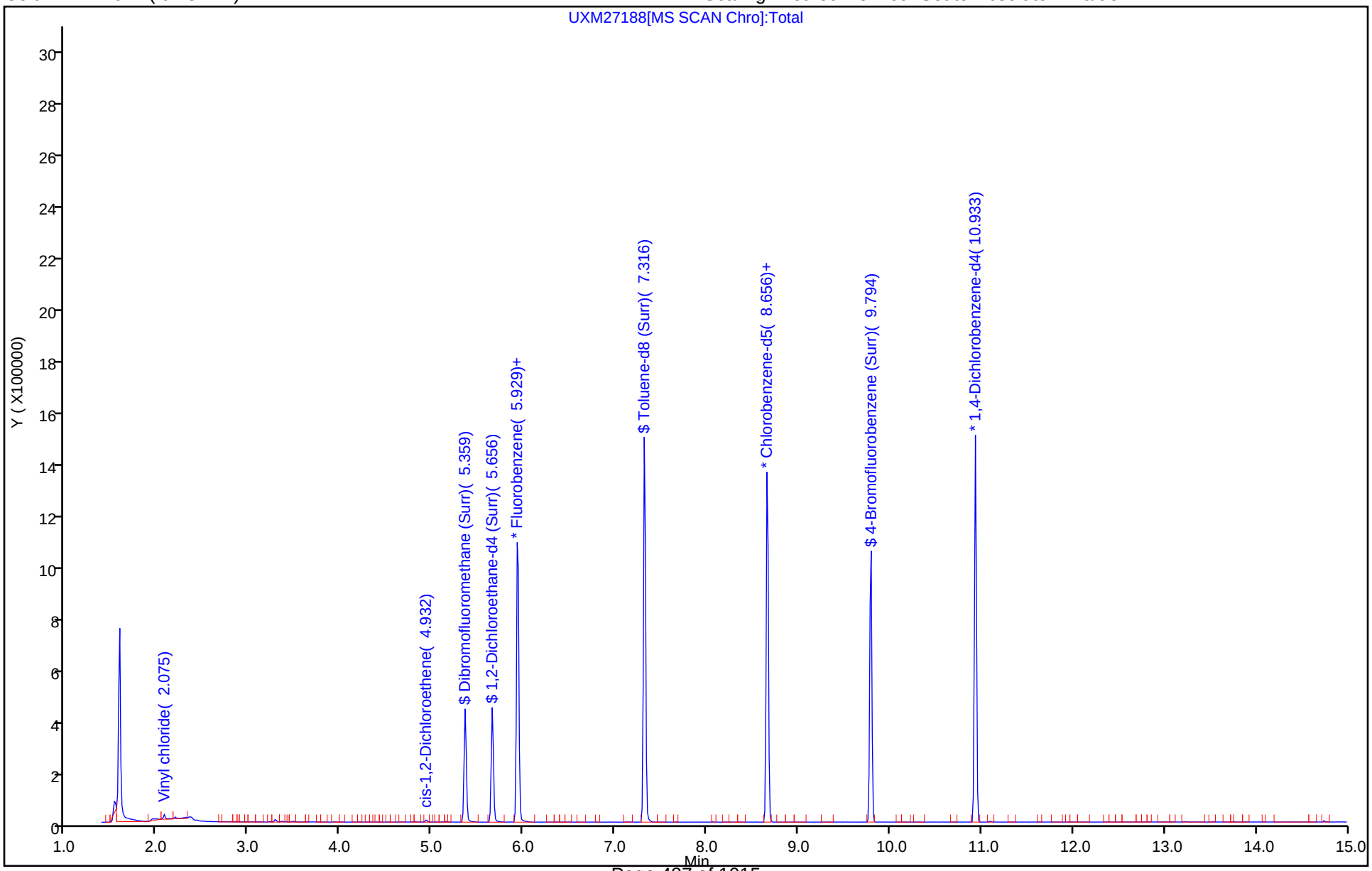
Report Date: 06-Mar-2020 16:45:36 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27188.D

Injection Date:	06-Mar-2020 15:50:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-18	Lab Sample ID:	240-127107-18	Worklist Smp#:	15
Client ID:	MSA-SW42B-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27188.D
Lims ID: 240-127107-B-18
Client ID: MSA-SW42B-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 15:50:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-015
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 14:35:16 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 16:45:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.4	117.21
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.7	103.74
$ 6 Toluene-d8 (Surr)	20.0	18.6	92.90
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.6	107.91

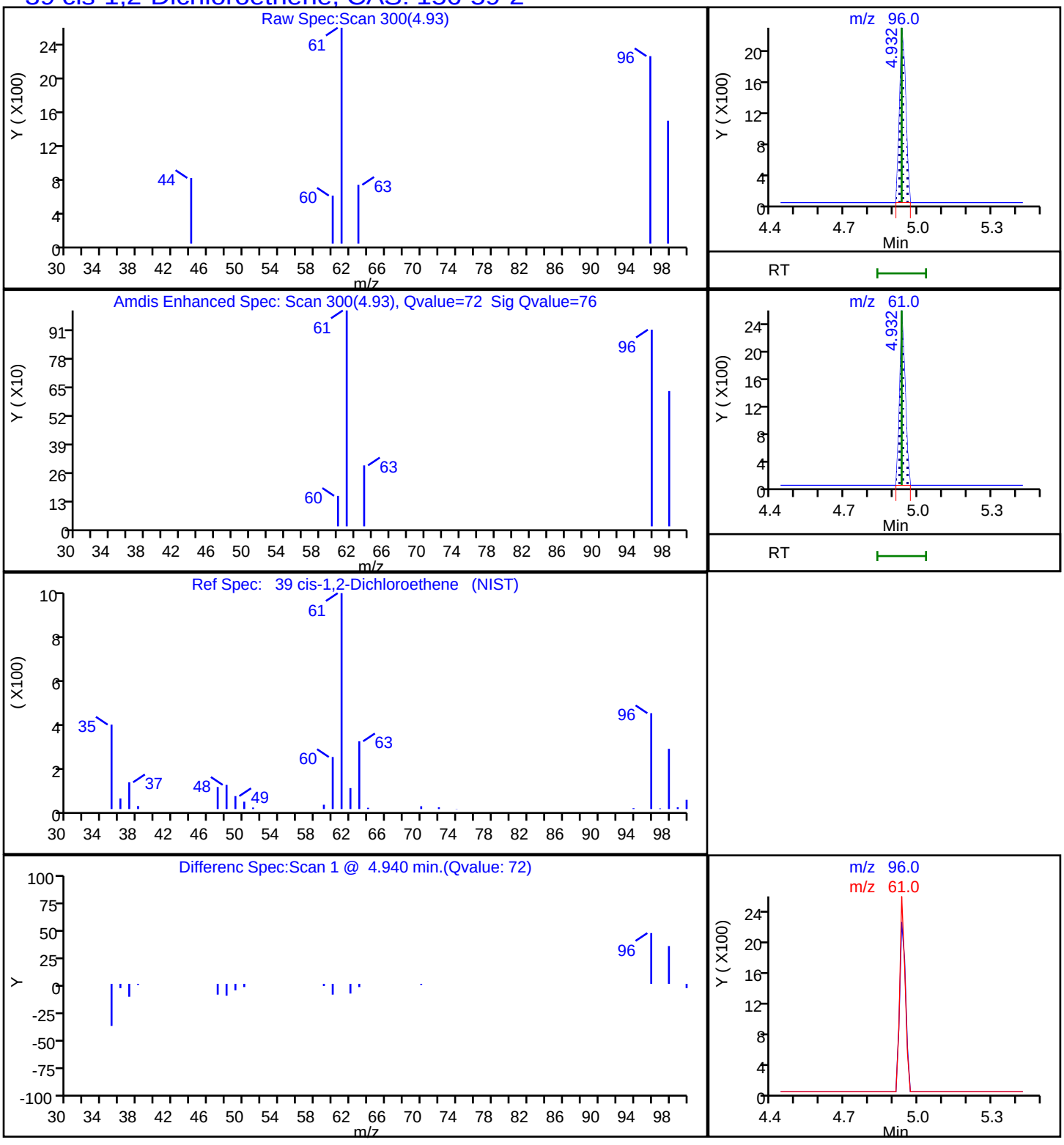
Report Date: 06-Mar-2020 16:45:36 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27188.D

Injection Date:	06-Mar-2020 15:50:30	Instrument ID:	A3UX16		
Lims ID:	240-127107-B-18	Lab Sample ID:	240-127107-18		
Client ID:	MSA-SW42B-030320				
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



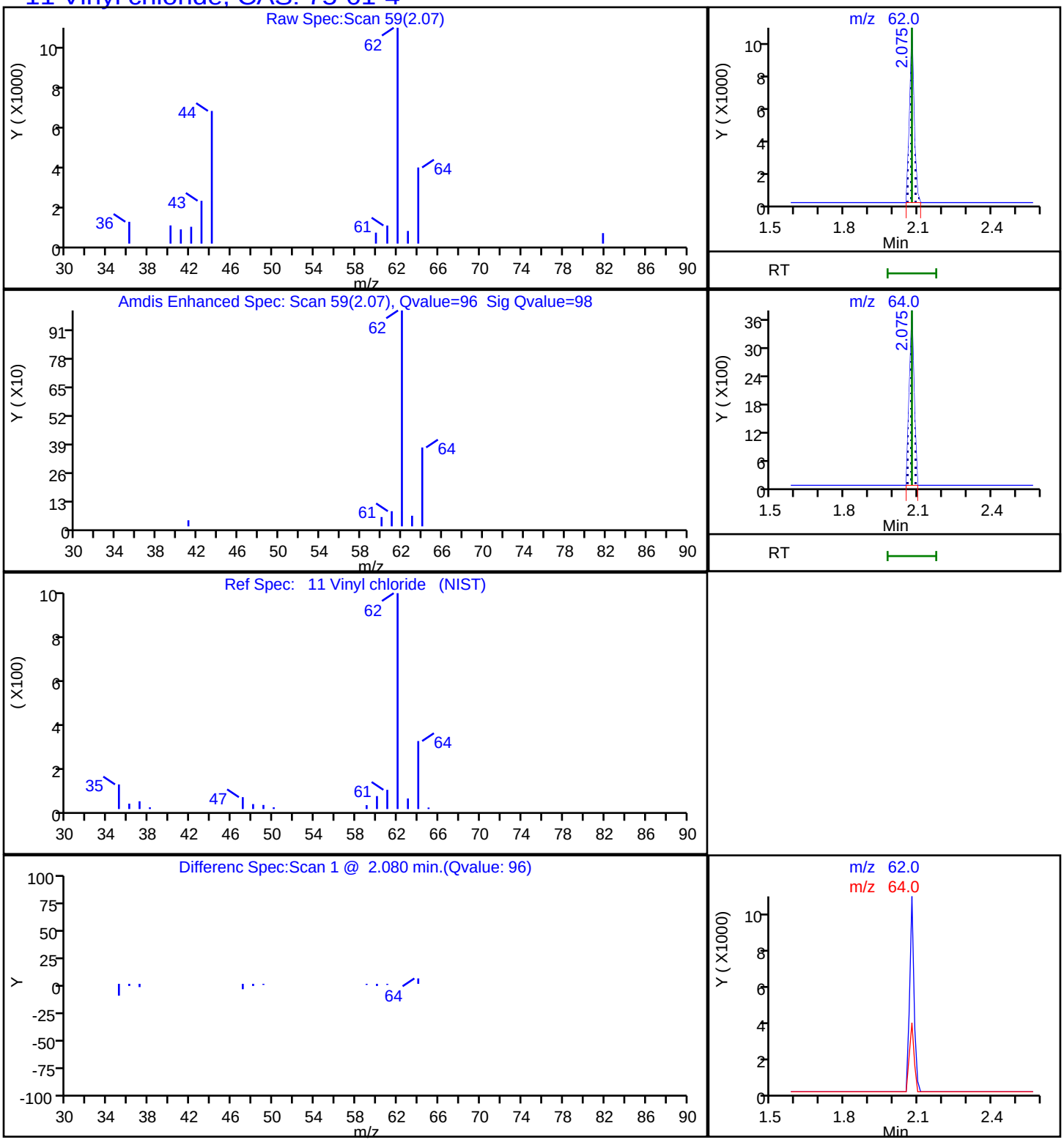
Report Date: 06-Mar-2020 16:45:36 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27188.D

Injection Date:	06-Mar-2020 15:50:30	Instrument ID:	A3UX16
Lims ID:	240-127107-B-18	Lab Sample ID:	240-127107-18
Client ID:	MSA-SW42B-030320		
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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Matrix: Water Lab File ID: UXM27189.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Matrix: Water Lab File ID: UXM27189.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
156-59-2	cis-1,2-Dichloroethene	0.22	J	1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.61
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50		0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Matrix: Water Lab File ID: UXM27189.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	109		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	120		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Matrix: Water Lab File ID: UXM27189.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42C-030320 Lab Sample ID: 240-127107-19

Matrix: Water Lab File ID: UXM27189.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:45

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27189.D
Lims ID: 240-127107-B-19
Client ID: MSA-SW42C-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 16:15:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-016
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 16:47:16 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 16:47:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.928	0.001	99	962214	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	752730	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	362355	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	240998	24.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	270868	20.8	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	927409	18.8	
$ 7 4-Bromofluorobenzene (Surr	95	9.795	9.794	0.001	88	372550	21.9	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.075	2.074	0.001	95	10494	0.4999	
13 Bromomethane	94	2.430	2.418	0.012	73	1567	0.1154	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58		3.355				ND	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96	4.933	4.932	0.001	77	3033	0.2219	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
50 1,1-Dichloropropene	75		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
51 Carbon tetrachloride	117		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

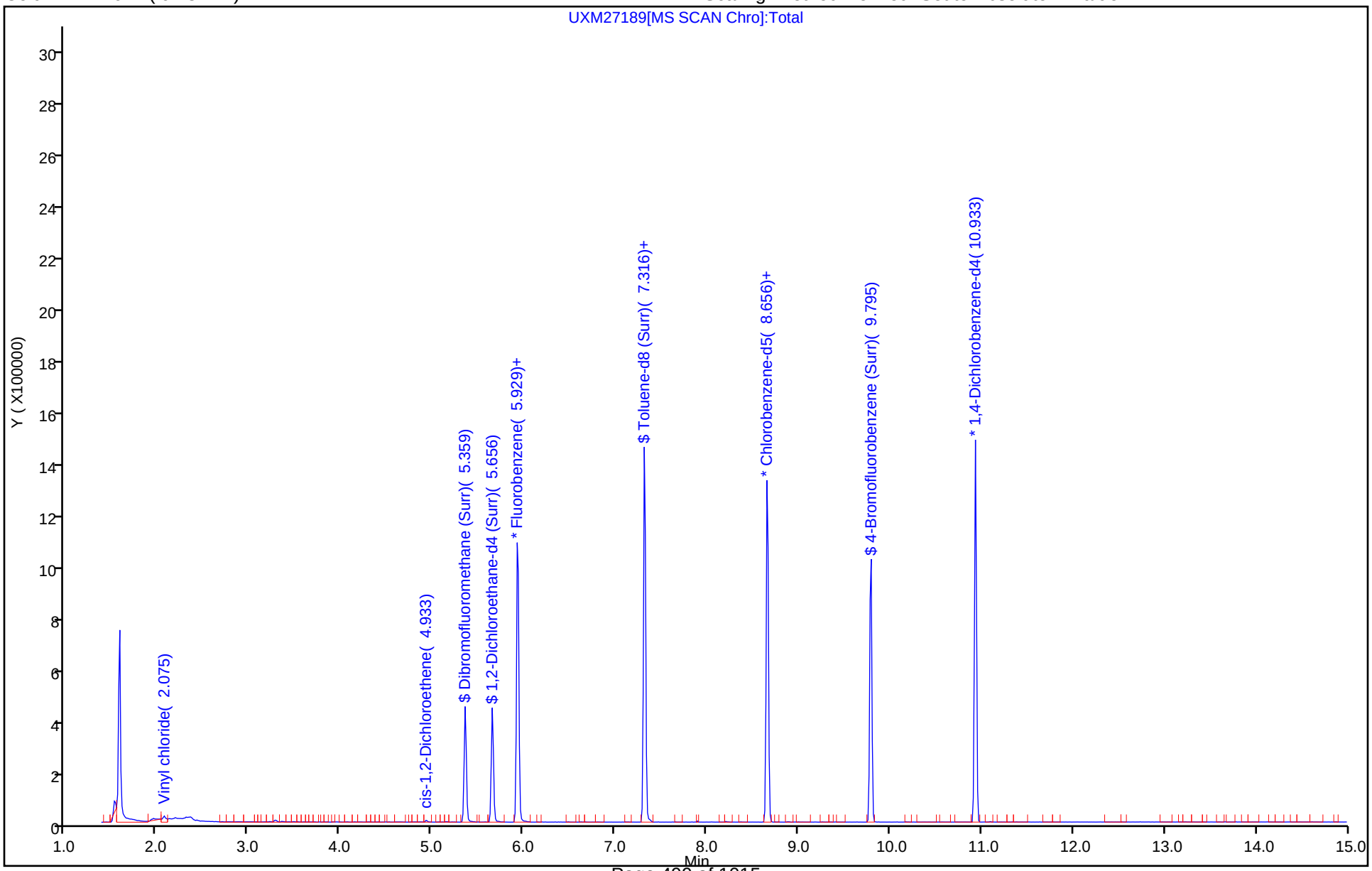
Report Date: 06-Mar-2020 16:47:16 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27189.D

Injection Date:	06-Mar-2020 16:15:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-19	Lab Sample ID:	240-127107-19	Worklist Smp#:	16
Client ID:	MSA-SW42C-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27189.D
Lims ID: 240-127107-B-19
Client ID: MSA-SW42C-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 16:15:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-016
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 16:47:16 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 16:47:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	24.0	120.09
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.8	103.76
$ 6 Toluene-d8 (Surr)	20.0	18.8	93.92
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.9	109.34

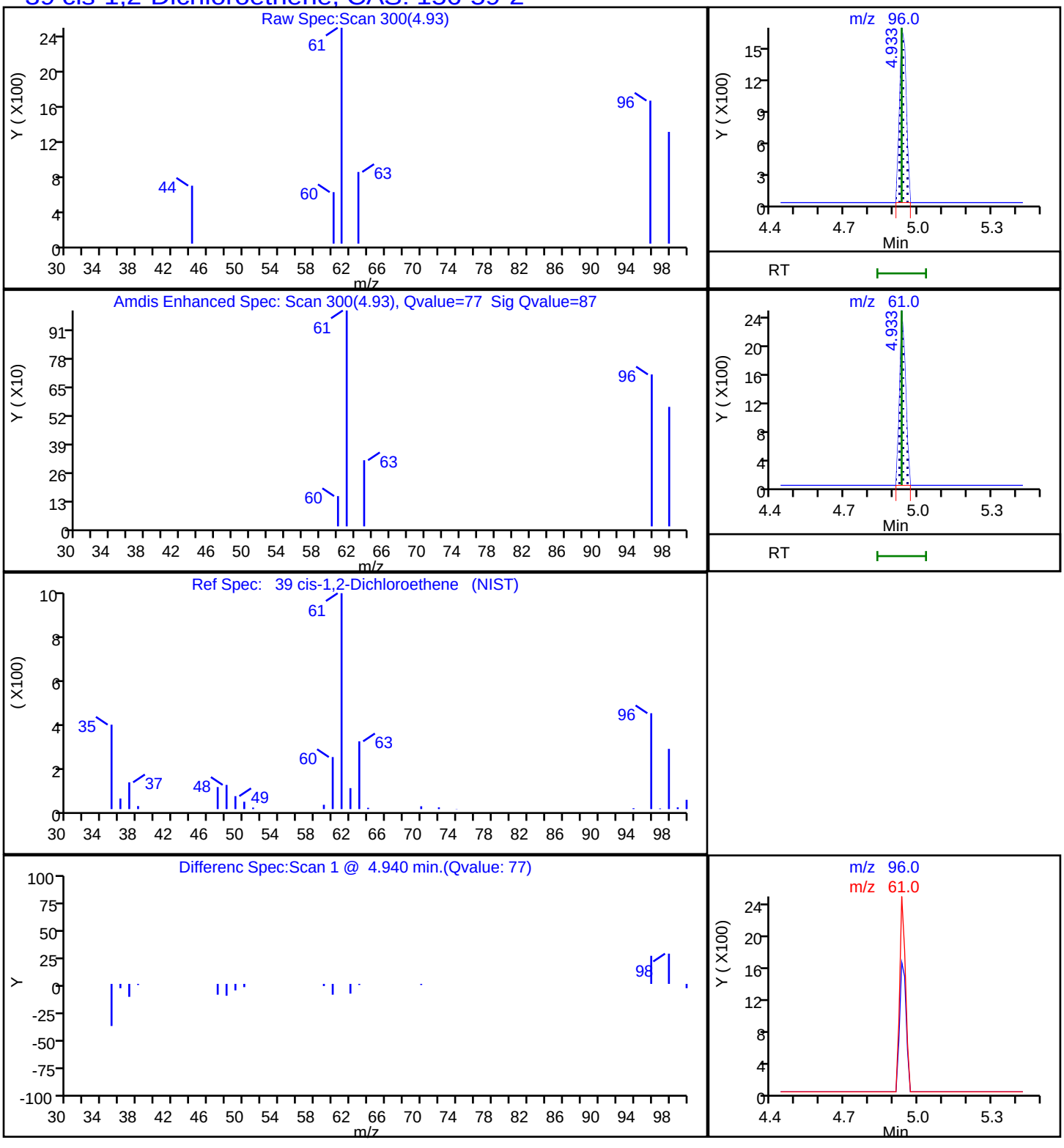
Report Date: 06-Mar-2020 16:47:16 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27189.D

Injection Date:	06-Mar-2020 16:15:30	Instrument ID:	A3UX16		
Lims ID:	240-127107-B-19	Lab Sample ID:	240-127107-19		
Client ID:	MSA-SW42C-030320				
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



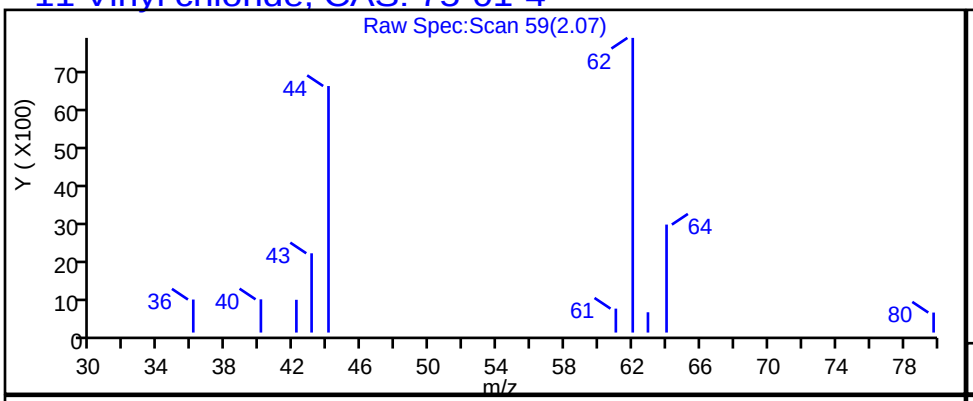
Report Date: 06-Mar-2020 16:47:16 Chrom Revision: 2.3 19-Feb-2020 16:45:46

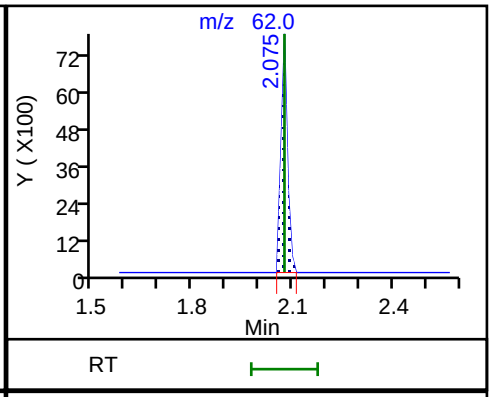
Eurofins TestAmerica, Canton

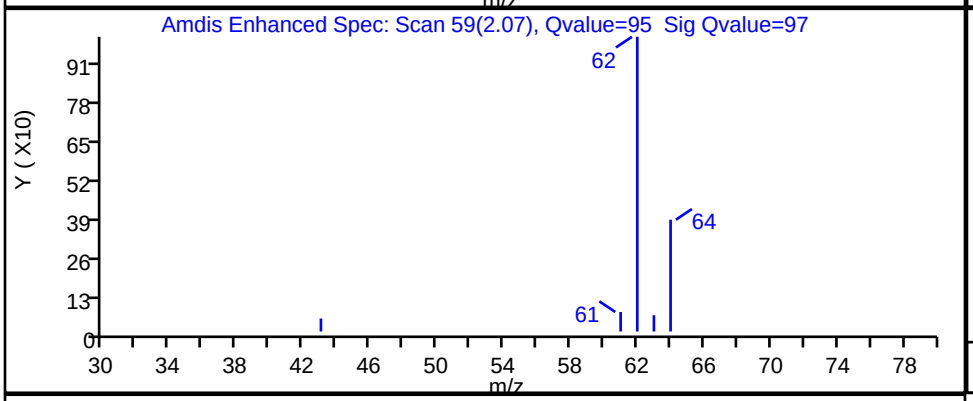
Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27189.D

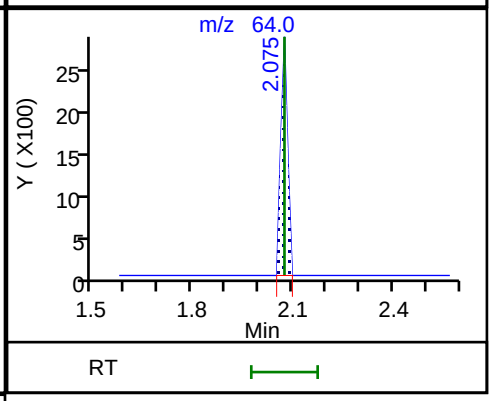
Injection Date:	06-Mar-2020 16:15:30	Instrument ID:	A3UX16
Lims ID:	240-127107-B-19	Lab Sample ID:	240-127107-19
Client ID:	MSA-SW42C-030320		
Operator ID:	001765	ALS Bottle#:	16 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_16	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

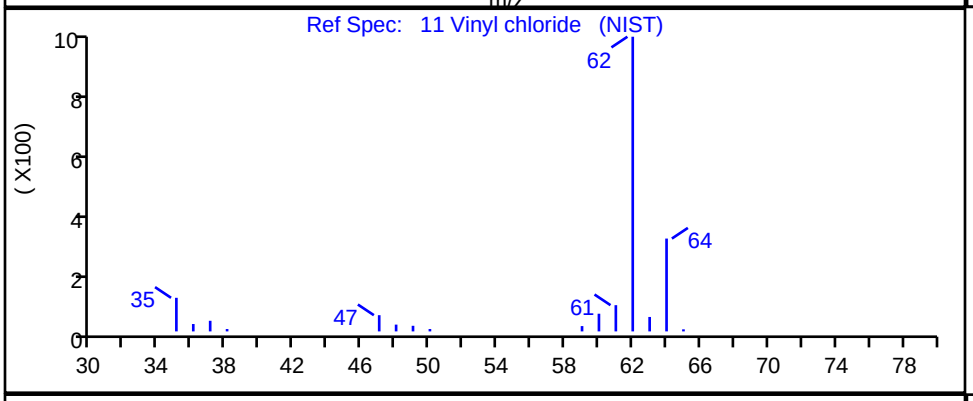
11 Vinyl chloride, CAS: 75-01-4

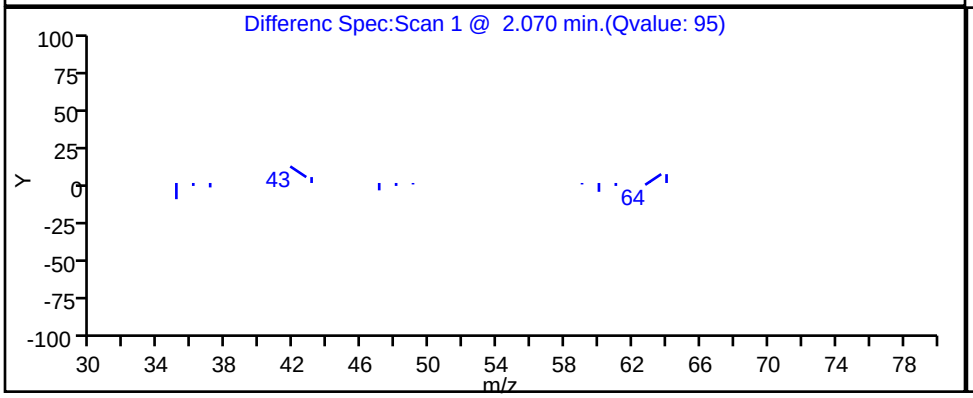


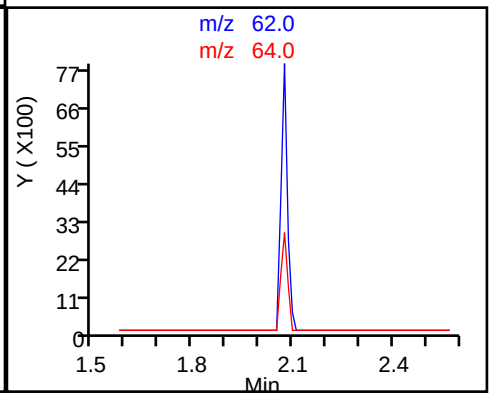












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Matrix: Water Lab File ID: UXM27190.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Matrix: Water Lab File ID: UXM27190.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.26	J	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Matrix: Water Lab File ID: UXM27190.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
2037-26-5	Toluene-d8 (Surr)	92		69-122
1868-53-7	Dibromofluoromethane (Surr)	117		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Matrix: Water Lab File ID: UXM27190.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW42D-030320 Lab Sample ID: 240-127107-20

Matrix: Water Lab File ID: UXM27190.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:48

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 16:40

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27190.D
Lims ID: 240-127107-B-20
Client ID: MSA-SW42D-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 16:40:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-017
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 20:48:21 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:30:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.928	0.000	99	942318	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	85	747601	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	365617	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	230089	23.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	259485	20.3	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	906243	18.5	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	88	362127	21.4	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.074	2.074	0.000	94	5279	0.2568	
13 Bromomethane	94		2.418				ND	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58		3.355				ND	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

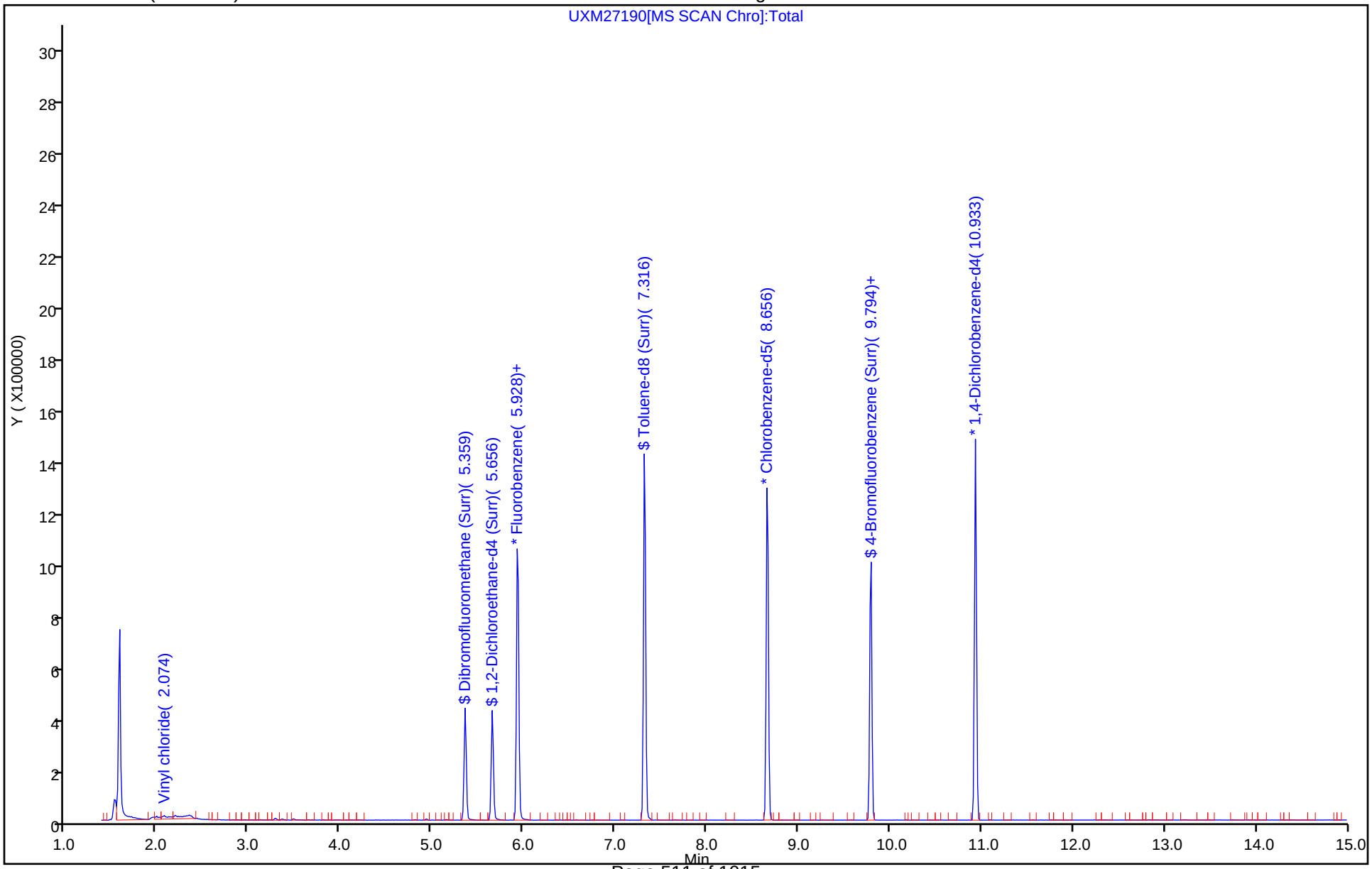
Report Date: 09-Mar-2020 09:30:52 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27190.D

Injection Date:	06-Mar-2020 16:40:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-20	Lab Sample ID:	240-127107-20	Worklist Smp#:	17
Client ID:	MSA-SW42D-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27190.D
Lims ID: 240-127107-B-20
Client ID: MSA-SW42D-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 16:40:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-017
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 20:48:21 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:30:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.4	117.07
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.3	101.50
$ 6 Toluene-d8 (Surr)	20.0	18.5	92.41
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.4	107.01

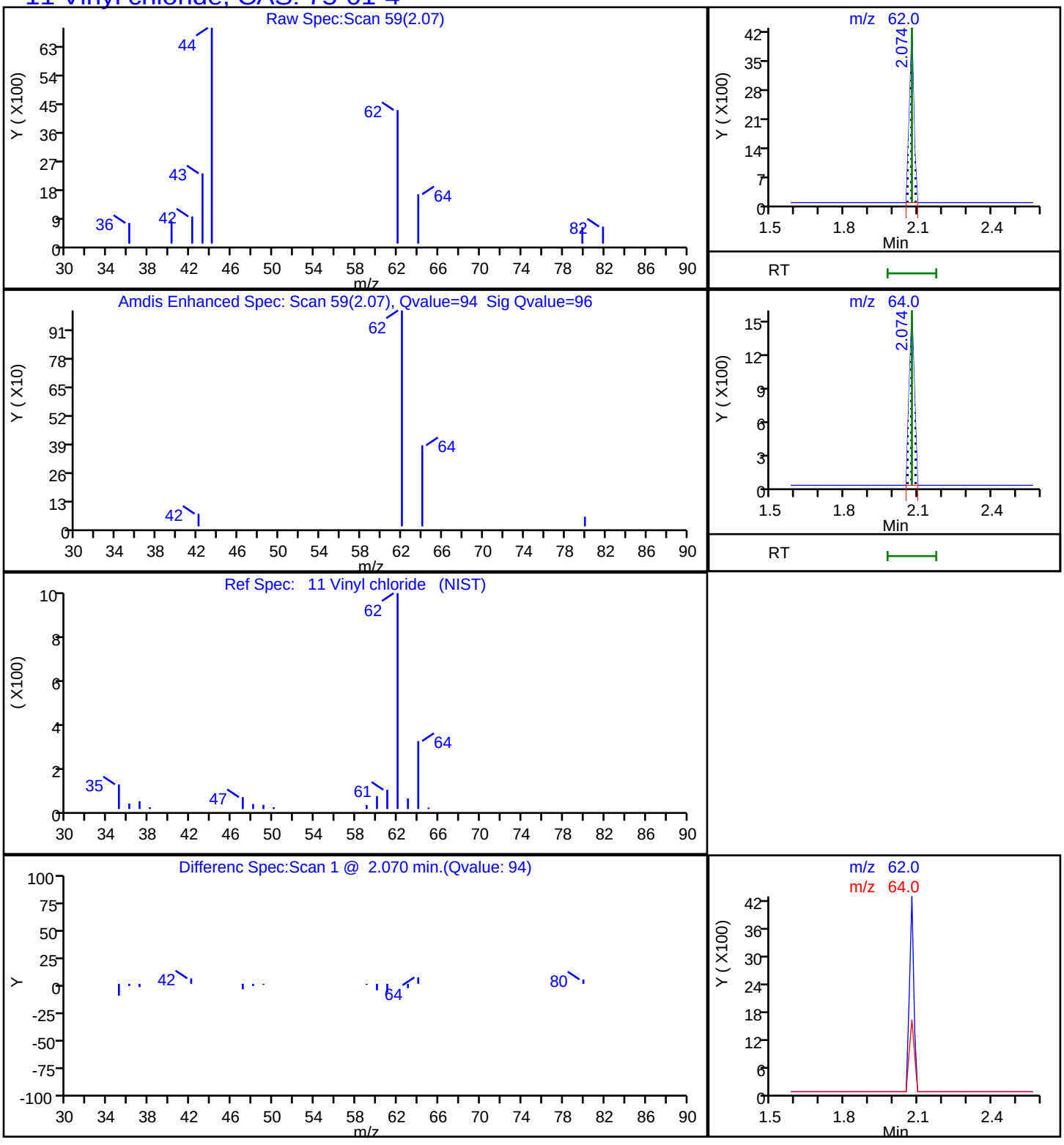
Report Date: 09-Mar-2020 09:30:52 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27190.D

Injection Date:	06-Mar-2020 16:40:30	Instrument ID:	A3UX16		
Lims ID:	240-127107-B-20	Lab Sample ID:	240-127107-20		
Client ID:	MSA-SW42D-030320				
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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Matrix: Water Lab File ID: UXM27191.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Matrix: Water Lab File ID: UXM27191.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Matrix: Water Lab File ID: UXM27191.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	113		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Matrix: Water Lab File ID: UXM27191.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43A-030320 Lab Sample ID: 240-127107-21

Matrix: Water Lab File ID: UXM27191.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:26

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27191.D
Lims ID: 240-127107-B-21
Client ID: MSA-SW43A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 17:05:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-018
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 20:48:21 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:31:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.928	0.000	99	1074044	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	816888	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	392867	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	252635	22.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	308449	21.2	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	1018531	19.0	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	88	399720	21.6	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.074	2.074	0.000	93	3031	0.1294	
13 Bromomethane	94	2.418	2.418	0.000	1	1349	0.0890	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58		3.355				ND	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

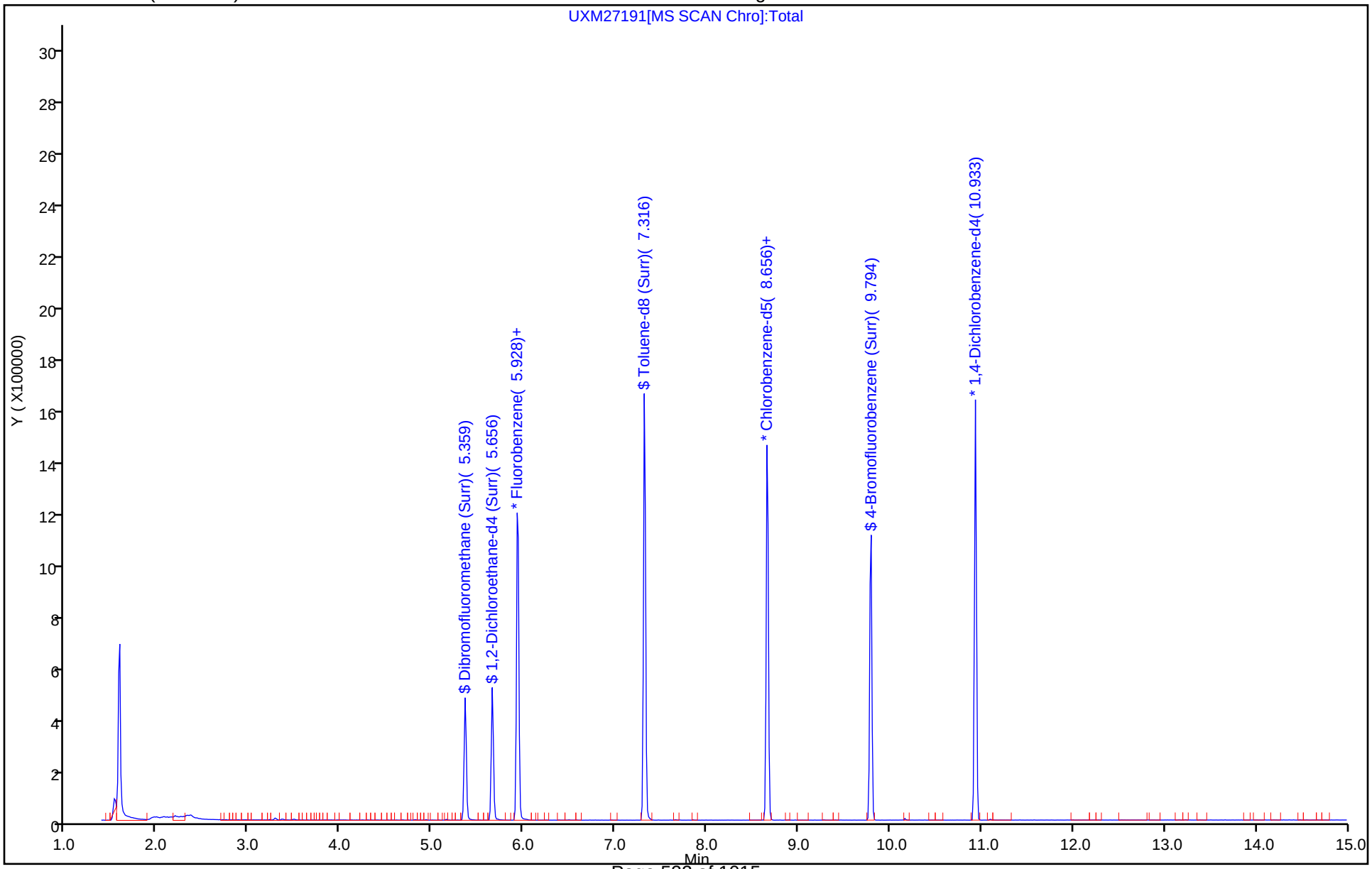
Report Date: 09-Mar-2020 09:31:28 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27191.D

Injection Date:	06-Mar-2020 17:05:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-21	Lab Sample ID:	240-127107-21	Worklist Smp#:	18
Client ID:	MSA-SW43A-030320				
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:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27191.D				
Lims ID:	240-127107-B-21				
Client ID:	MSA-SW43A-030320				
Sample Type:	Client				
Inject. Date:	06-Mar-2020 17:05:30	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0096389-018				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	06-Mar-2020 20:48:21	Calib Date:	07-Feb-2020 23:28:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX0303				

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:31:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.6	112.78
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.2	105.85
$ 6 Toluene-d8 (Surr)	20.0	19.0	95.05
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.6	108.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Matrix: Water Lab File ID: UXM27192.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:30

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Matrix: Water Lab File ID: UXM27192.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:30

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Matrix: Water Lab File ID: UXM27192.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:30

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	116		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Matrix: Water Lab File ID: UXM27192.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:30

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43B-030320 Lab Sample ID: 240-127107-22

Matrix: Water Lab File ID: UXM27192.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:30

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 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.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27192.D
Lims ID: 240-127107-B-22
Client ID: MSA-SW43B-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 17:30:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-019
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 20:48:21 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:35:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.928	0.001	99	1016994	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	782882	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	378841	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	245065	23.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	289788	21.0	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	976756	19.0	
$ 7 4-Bromofluorobenzene (Surr	95	9.795	9.794	0.001	89	383972	21.7	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.075	2.074	0.001	94	3382	0.1524	
13 Bromomethane	94		2.418				ND	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58	3.367	3.355	0.012	97	2852	1.12	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

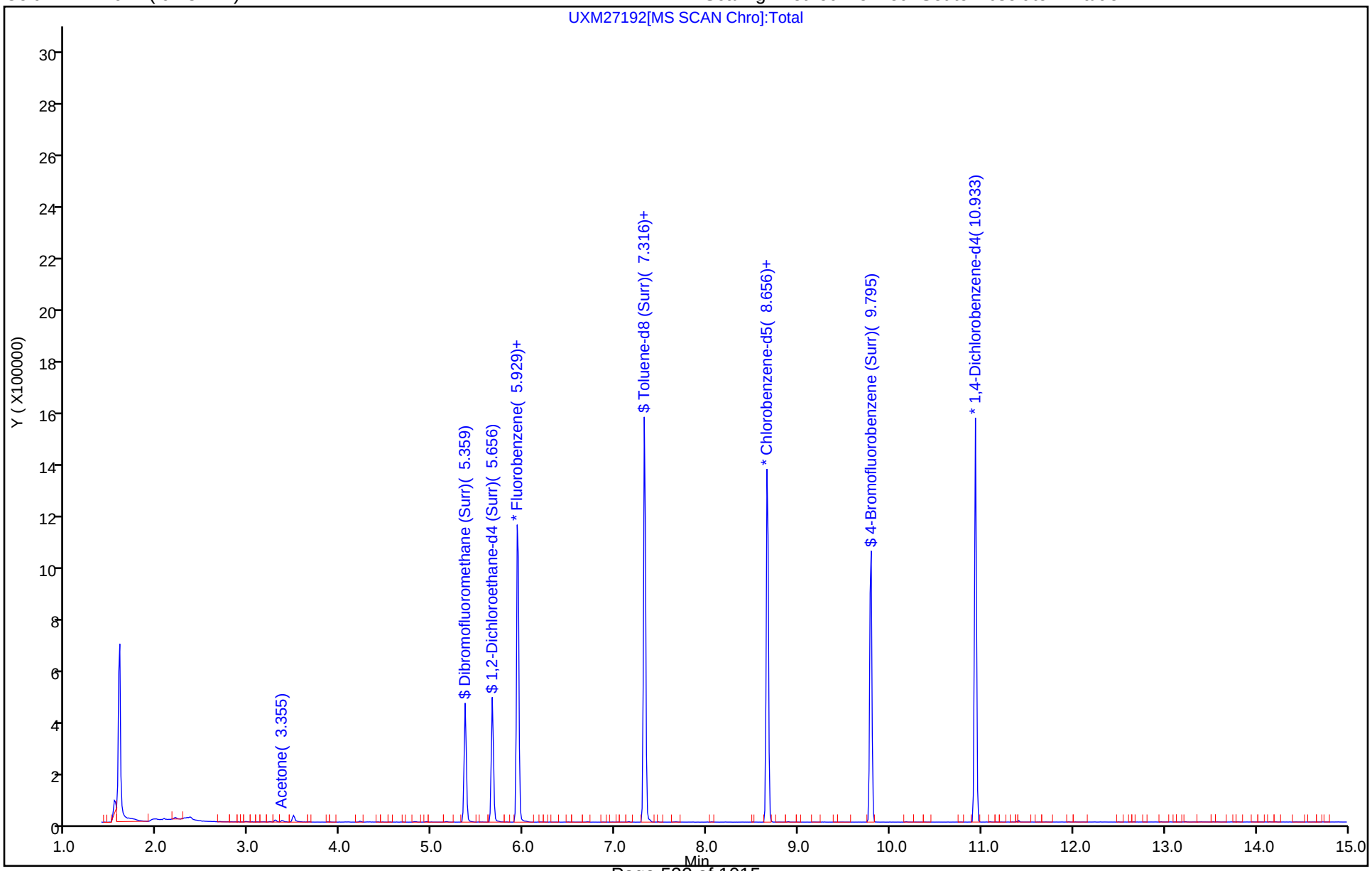
Report Date: 09-Mar-2020 09:35:16 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27192.D

Injection Date:	06-Mar-2020 17:30:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-22	Lab Sample ID:	240-127107-22	Worklist Smp#:	19
Client ID:	MSA-SW43B-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27192.D
Lims ID: 240-127107-B-22
Client ID: MSA-SW43B-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 17:30:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-019
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 20:48:21 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:35:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.1	115.54
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.0	105.03
$ 6 Toluene-d8 (Surr)	20.0	19.0	95.11
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.7	108.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Matrix: Water Lab File ID: UXM27193.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 17:55

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Matrix: Water Lab File ID: UXM27193.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 17:55

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Matrix: Water Lab File ID: UXM27193.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 17:55

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	96		69-122
1868-53-7	Dibromofluoromethane (Surr)	113		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Matrix: Water Lab File ID: UXM27193.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 17:55

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43C-030320 Lab Sample ID: 240-127107-23

Matrix: Water Lab File ID: UXM27193.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:34

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 17:55

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.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27193.D
Lims ID: 240-127107-B-23
Client ID: MSA-SW43C-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 17:55:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-020
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 20:48:21 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:39:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.928	0.001	99	1072724	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	795451	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	388374	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	251844	22.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	301695	20.7	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	1006181	19.3	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	89	388679	21.6	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.075	2.074	0.001	92	2402	0.1026	
13 Bromomethane	94	2.430	2.418	0.012	11	1017	0.0672	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58		3.355				ND	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

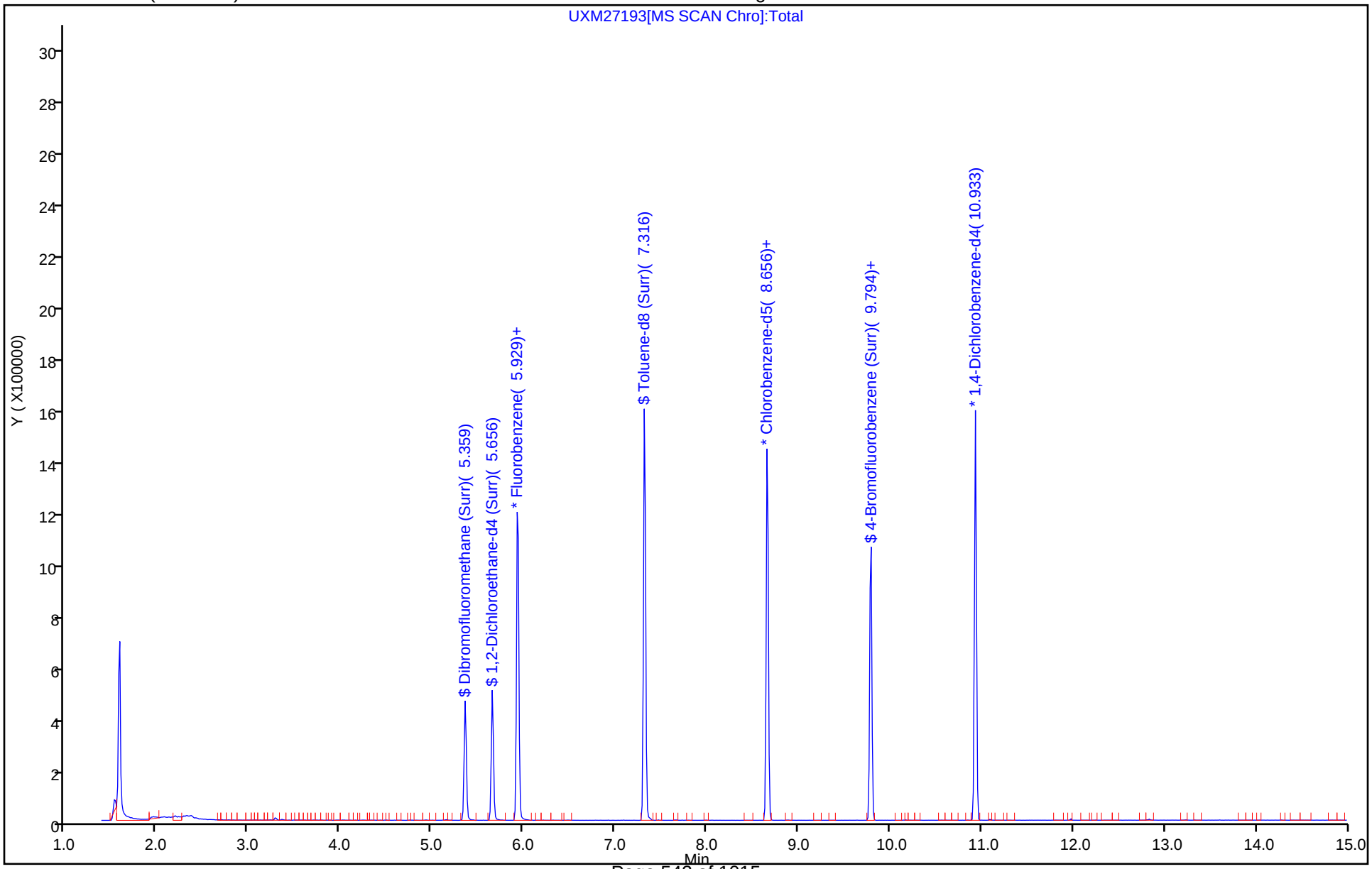
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Mar-2020 09:39:15 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27193.D				
Injection Date:	06-Mar-2020 17:55:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-23	Lab Sample ID:	240-127107-23	Worklist Smp#:	20
Client ID:	MSA-SW43C-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27193.D
Lims ID: 240-127107-B-23
Client ID: MSA-SW43C-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 17:55:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-020
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 20:48:21 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:39:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.5	112.56
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.7	103.66
$ 6 Toluene-d8 (Surr)	20.0	19.3	96.43
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.6	107.95

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Matrix: Water Lab File ID: UXM27194.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Matrix: Water Lab File ID: UXM27194.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Matrix: Water Lab File ID: UXM27194.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	116		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Matrix: Water Lab File ID: UXM27194.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW43D-030320 Lab Sample ID: 240-127107-24

Matrix: Water Lab File ID: UXM27194.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27194.D
Lims ID: 240-127107-B-24
Client ID: MSA-SW43D-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 18:20:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-021
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:39:53 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:39:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.928	0.000	99	978322	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	750351	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	362273	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	236881	23.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	282132	21.3	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	932439	18.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	88	367895	21.7	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.074	2.074	0.000	93	2334	0.1094	
13 Bromomethane	94		2.418				ND	U
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58		3.355				ND	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91	7.375	7.375	0.000	97	8434	0.1368	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

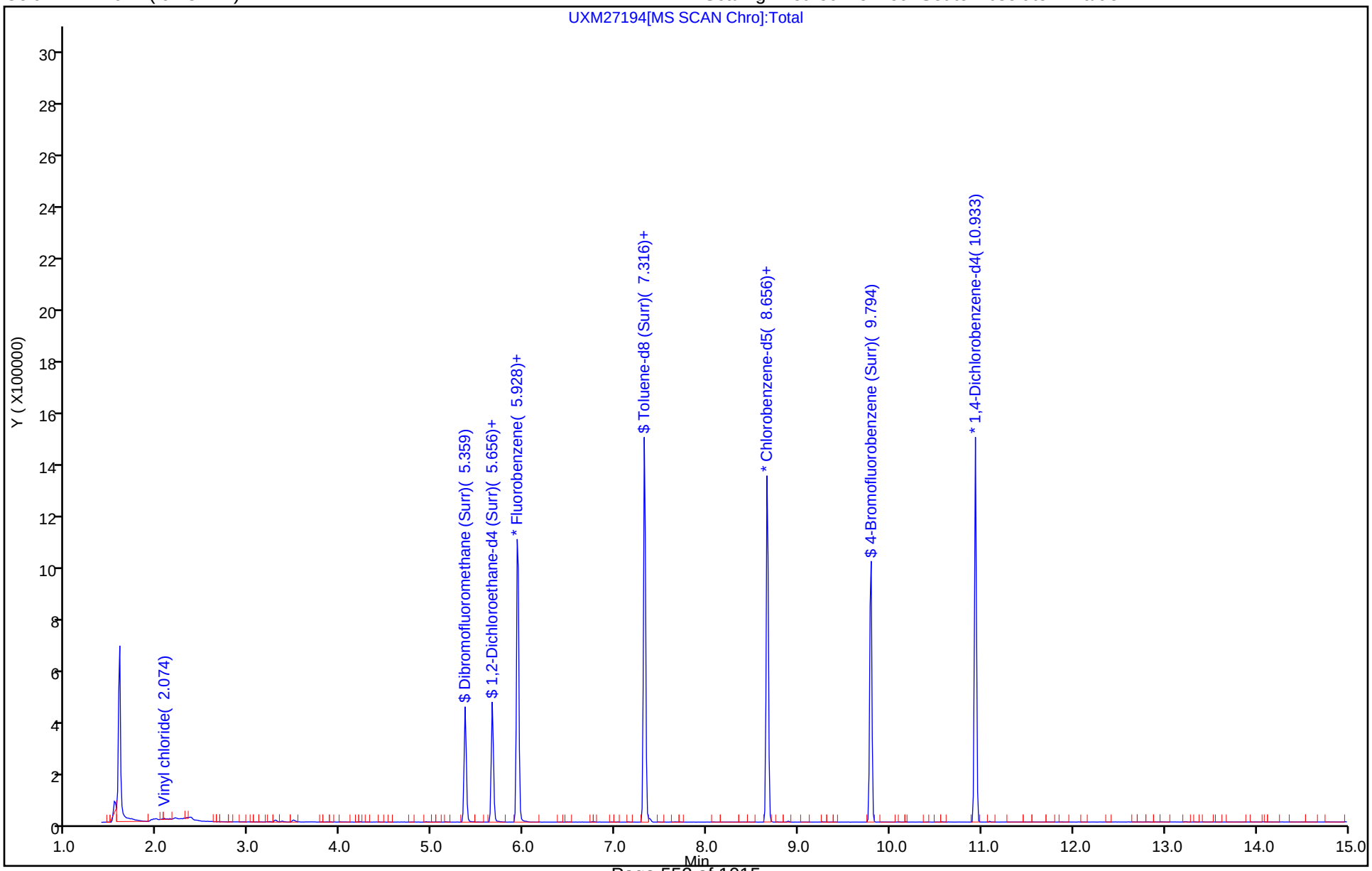
Report Date: 09-Mar-2020 09:39:54 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27194.D

Injection Date:	06-Mar-2020 18:20:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-24	Lab Sample ID:	240-127107-24	Worklist Smp#:	21
Client ID:	MSA-SW43D-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27194.D
Lims ID: 240-127107-B-24
Client ID: MSA-SW43D-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 18:20:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-021
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:39:53 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:39:53

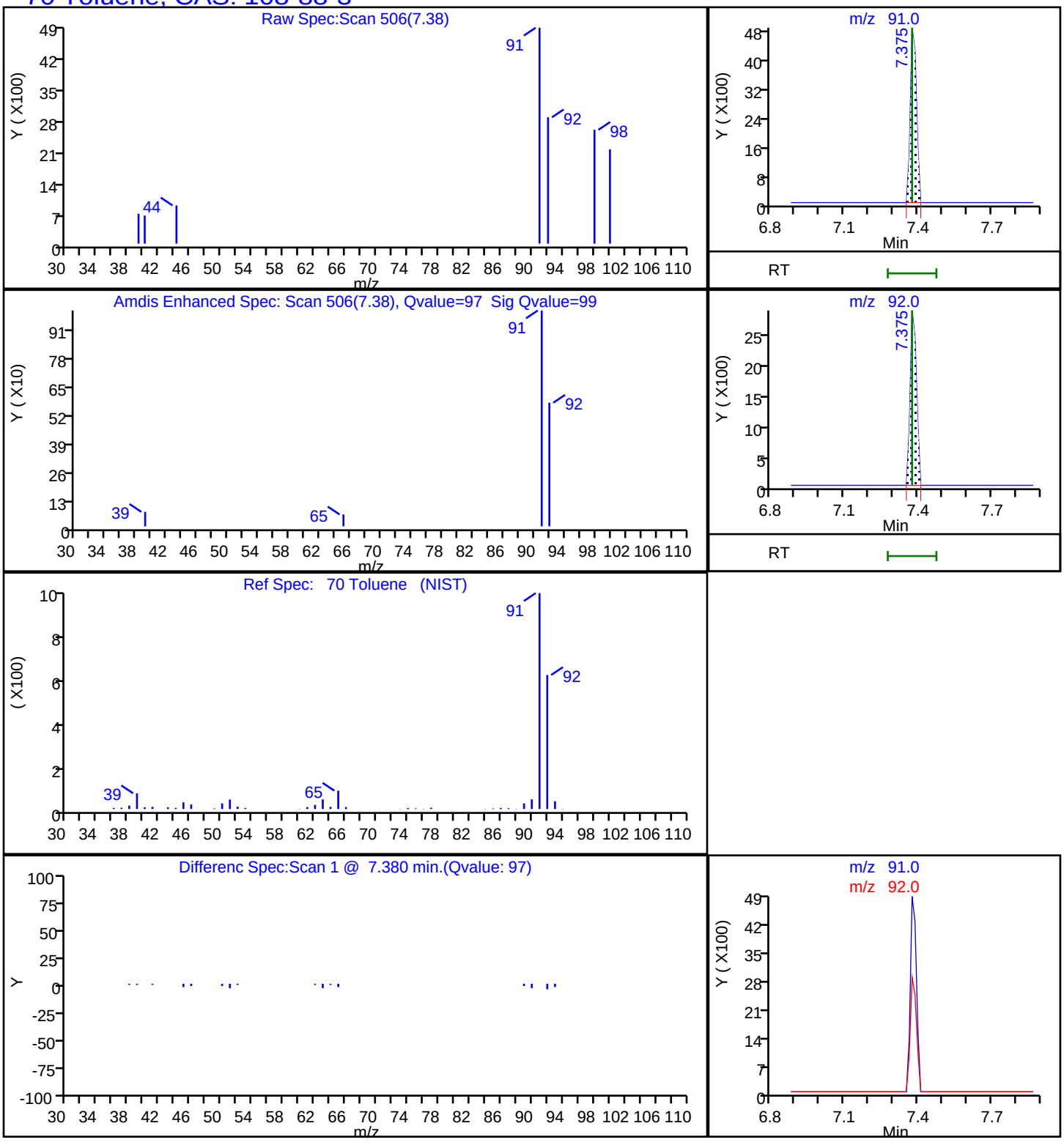
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.2	116.09
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.3	106.30
$ 6 Toluene-d8 (Surr)	20.0	18.9	94.73
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.7	108.32

Report Date: 09-Mar-2020 09:39:54 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27194.D				
Injection Date:	06-Mar-2020 18:20:30	Instrument ID:	A3UX16		
Lims ID:	240-127107-B-24	Lab Sample ID:	240-127107-24		
Client ID:	MSA-SW43D-030320				
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



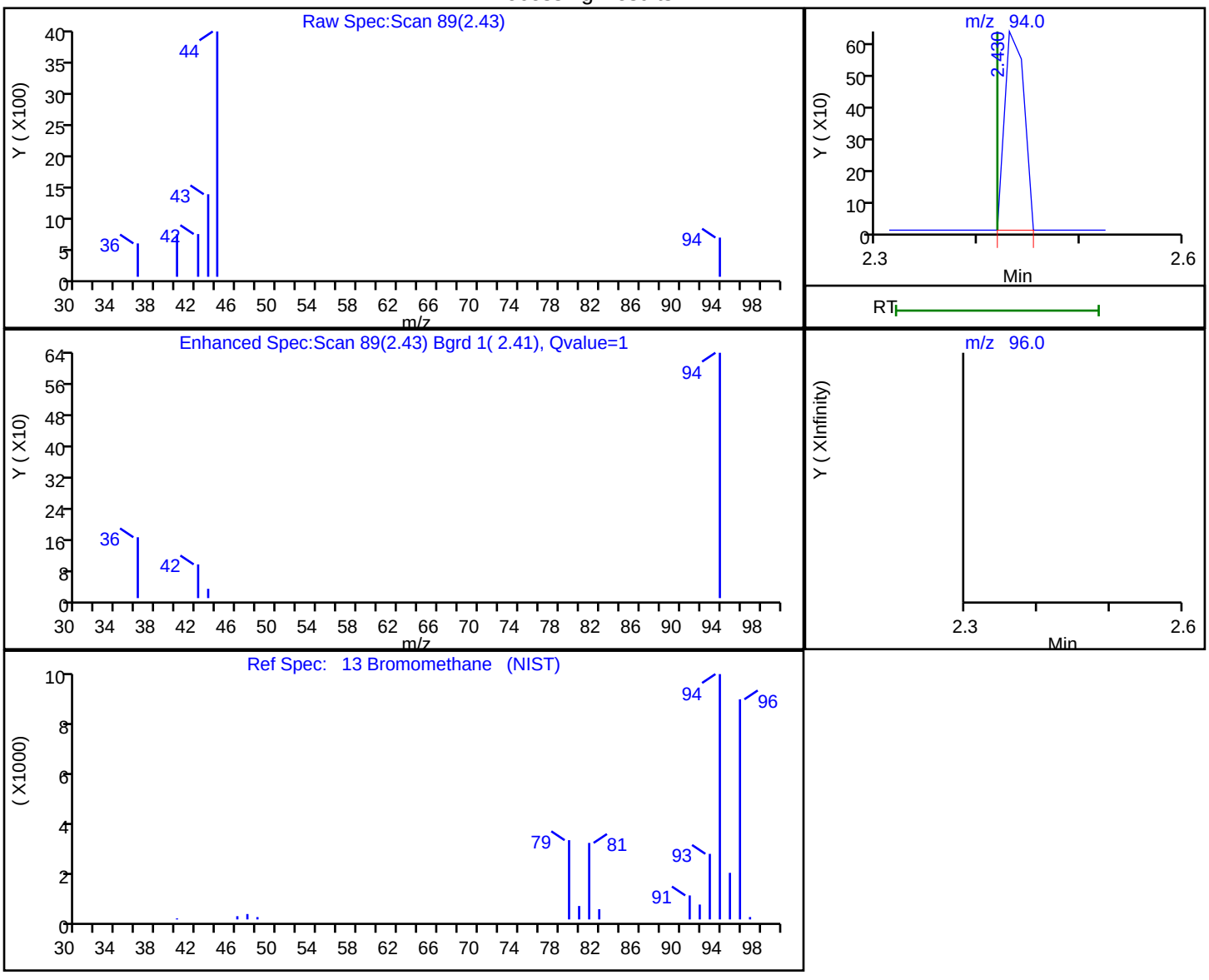
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27194.D				
Injection Date:	06-Mar-2020 18:20:30	Instrument ID:	A3UX16		
Lims ID:	240-127107-B-24	Lab Sample ID:	240-127107-24		
Client ID:	MSA-SW43D-030320				
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		

13 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.43	94.00	838	0.060702
2.42	96.00	0	

Reviewer: bosworthh, 09-Mar-2020 09:39:40

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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Matrix: Water Lab File ID: UXM27195.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:06

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Matrix: Water Lab File ID: UXM27195.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:06

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Matrix: Water Lab File ID: UXM27195.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:06

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		75-130
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	113		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Matrix: Water Lab File ID: UXM27195.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:06

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44A-030320 Lab Sample ID: 240-127107-25

Matrix: Water Lab File ID: UXM27195.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:06

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 18:45

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27195.D
Lims ID: 240-127107-B-25
Client ID: MSA-SW44A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 18:45:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-022
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:39:53 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:41:50

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.929	5.928	0.001	99	993405	20.0	
*	2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	762015	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	365178	20.0	
$	4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	234085	22.6	
$	5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	278537	20.7	
$	6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	930228	18.6	
$	7 4-Bromofluorobenzene (Surr	95	9.795	9.794	0.000	89	363812	21.1	
	9 Dichlorodifluoromethane	85		1.754				ND	
	10 Chloromethane	50	1.956	1.956	0.000	91	2263	0.1057	
	11 Vinyl chloride	62	2.075	2.074	0.001	20	2630	0.1214	
	13 Bromomethane	94	2.430	2.418	0.012	7	1085	0.0774	
	14 Chloroethane	64		2.537				ND	
	16 Trichlorofluoromethane	101		2.810				ND	
	19 1,1-Dichloroethene	96		3.320				ND	
	20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
	21 Acetone	58		3.355				ND	
	24 Carbon disulfide	76		3.533				ND	
	28 Methylene Chloride	84		3.794				ND	
	29 2-Methyl-2-propanol	59		3.877				ND	
	31 Methyl tert-butyl ether	73		4.031				ND	
	32 trans-1,2-Dichloroethene	96		4.043				ND	
	35 Vinyl acetate	43		4.422				ND	
	34 1,1-Dichloroethane	63		4.434				ND	
	36 Isopropyl ether	87		4.458				ND	
	38 Tert-butyl ethyl ether	59		4.766				ND	
	40 2-Butanone (MEK)	72		4.921				ND	
	39 cis-1,2-Dichloroethene	96		4.932				ND	
	41 2,2-Dichloropropane	77		4.944				ND	
	45 Chlorobromomethane	128		5.146				ND	
	47 Chloroform	83		5.229				ND	
	48 1,1,1-Trichloroethane	97		5.371				ND	
	51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

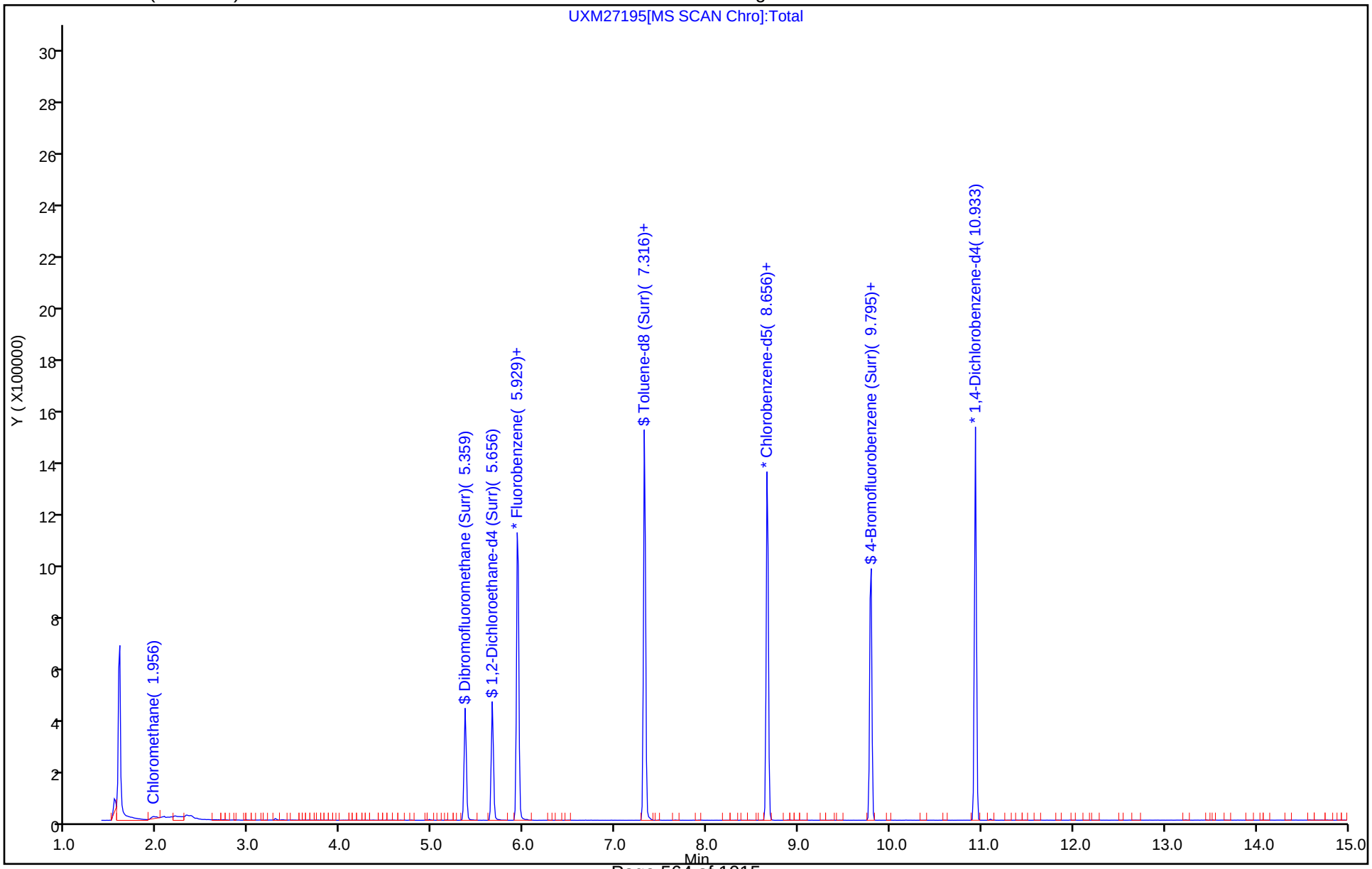
Report Date: 09-Mar-2020 09:41:50 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27195.D

Injection Date:	06-Mar-2020 18:45:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-25	Lab Sample ID:	240-127107-25	Worklist Smp#:	22
Client ID:	MSA-SW44A-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27195.D
Lims ID: 240-127107-B-25
Client ID: MSA-SW44A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 18:45:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-022
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:39:53 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:41:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.6	112.98
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.7	103.35
$ 6 Toluene-d8 (Surr)	20.0	18.6	93.06
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.1	105.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Matrix: Water Lab File ID: UXM27196.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:13

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:10

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Matrix: Water Lab File ID: UXM27196.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:13

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:10

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Matrix: Water Lab File ID: UXM27196.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:13

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:10

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-130
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
2037-26-5	Toluene-d8 (Surr)	92		69-122
1868-53-7	Dibromofluoromethane (Surr)	123		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Matrix: Water Lab File ID: UXM27196.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:13

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:10

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.: 425629 Units: ug/L

Number TICs Found: 2 TIC Result Total: 10.3

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.25	2.5	T J	
67-63-0	Isopropyl Alcohol	3.49	7.8	T J N	78%

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44B-030320 Lab Sample ID: 240-127107-26

Matrix: Water Lab File ID: UXM27196.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:13

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:10

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.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27196.D
Lims ID: 240-127107-B-26
Client ID: MSA-SW44B-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 19:10:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-023
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:43:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.928	0.000	99	881282	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	701284	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	348496	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	225783	24.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	251256	21.0	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	848573	18.4	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	89	334435	21.1	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.074	2.074	0.000	95	2991	0.1556	
13 Bromomethane	94	2.430	2.418	0.012	79	1038	0.0835	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58	3.355	3.355	0.000	97	3132	1.87	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	U
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Canton
Tentatively Identified Quantitation Report

Data File:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27196.D				
Lims ID:	240-127107-B-26				
Client ID:	MSA-SW44B-030320				
Sample Type:	Client				
Inject. Date:	06-Mar-2020 19:10:30	ALS Bottle#:	23	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0096389-023				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	09-Mar-2020 09:43:36	Calib Date:	07-Feb-2020 23:28:30		
Tic RT Window:	1.400 -0.000	Response:	area		
Quant By:	Nearest ISTD	Quant LOD:	10.00000		
MS Library:	\\chromna\Canton\Database\NIST98.L				
Min. Match:	50				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX0303				
First Level Reviewer: bosworthh		Date:	09-Mar-2020 09:43:36		

Tentative Identified Compound Results

RT	Area	Amount ug/l	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
		Unknown						
2.252	220269	2.48	1					
67-63-0		Isopropyl Alcohol						
3.486	688950	7.76	1	78	11521	C3H8O	60	

Quantitation Compounds

Compound	RT	Area	Amount ug/l
* 1 Fluorobenzene	5.928	1776443	20.0

QC Flag Legend

Processing Flags

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

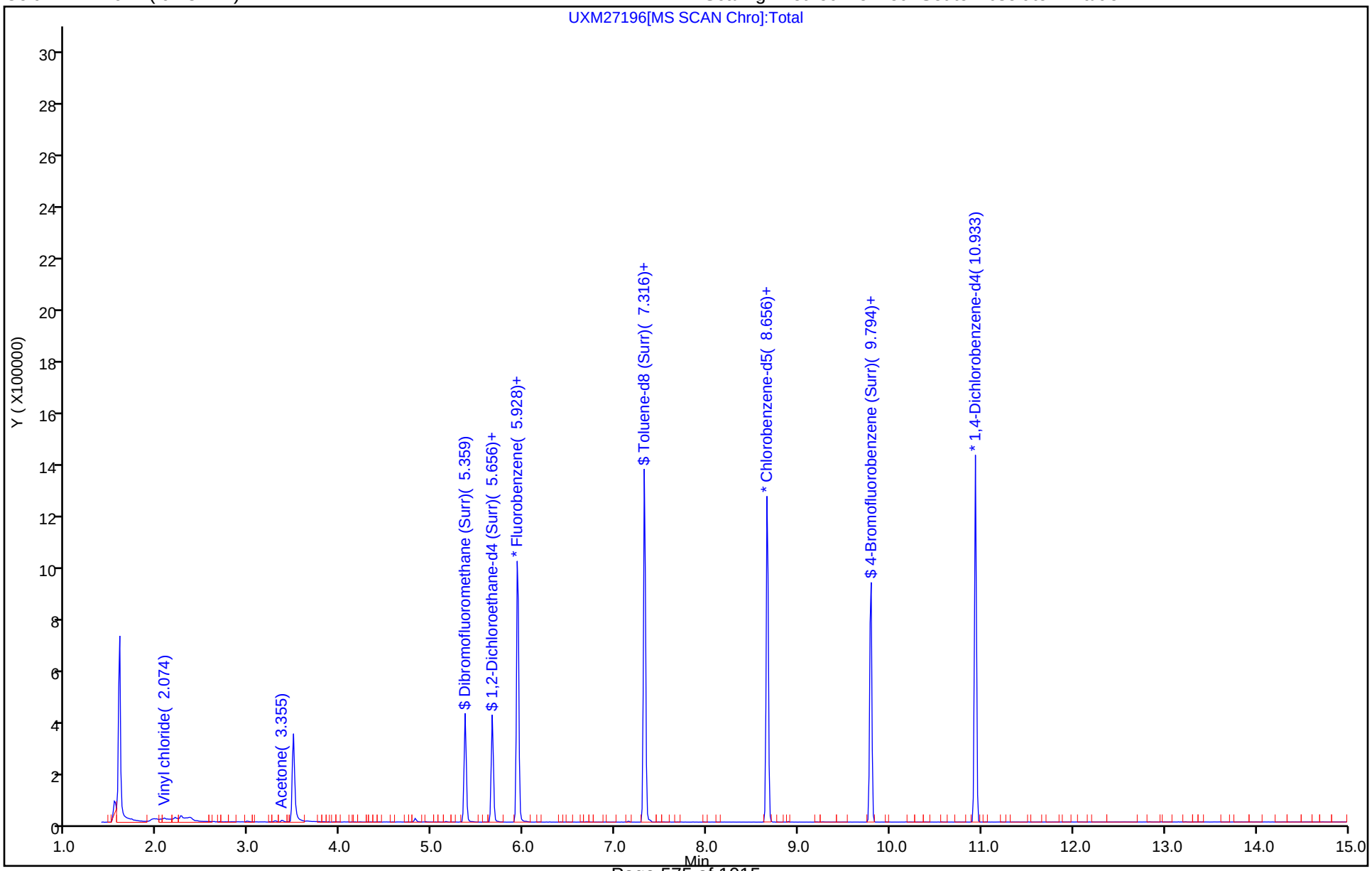
Report Date: 09-Mar-2020 09:43:37 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27196.D

Injection Date:	06-Mar-2020 19:10:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-26	Lab Sample ID:	240-127107-26	Worklist Smp#:	23
Client ID:	MSA-SW44B-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27196.D
Lims ID: 240-127107-B-26
Client ID: MSA-SW44B-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 19:10:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-023
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:43:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	24.6	122.84
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.0	105.09
$ 6 Toluene-d8 (Surr)	20.0	18.4	92.24
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.1	105.35

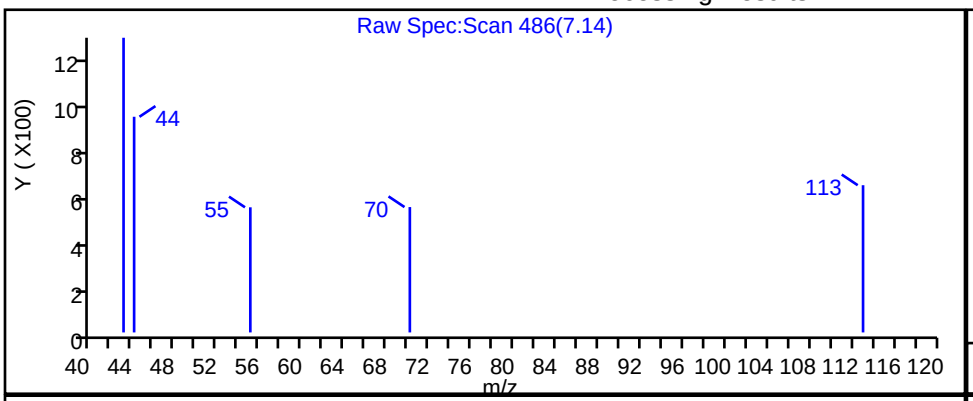
User Disabled Compound Report

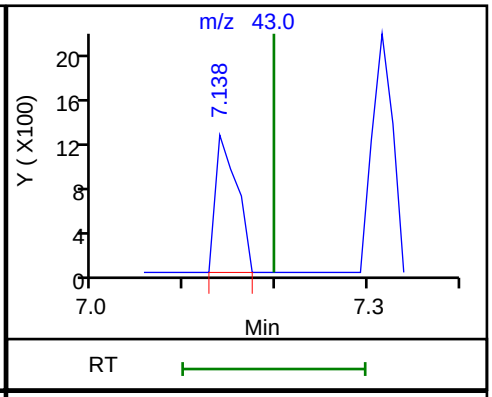
Eurofins TestAmerica, Canton

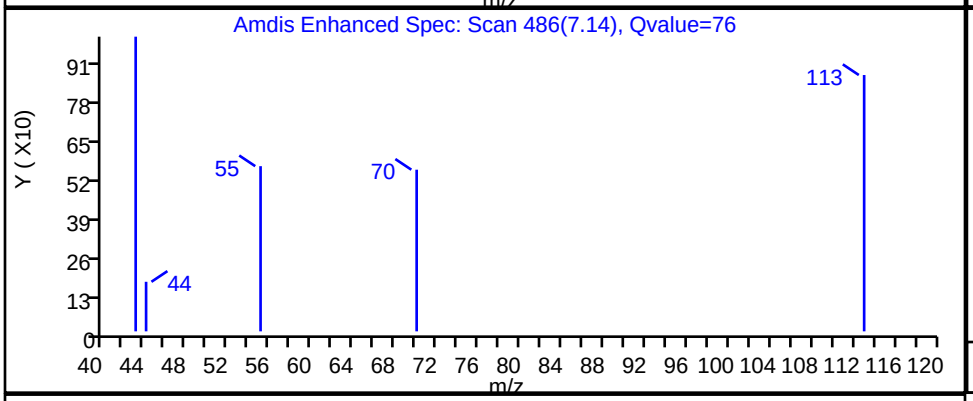
Data File:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27196.D				
Injection Date:	06-Mar-2020 19:10:30	Instrument ID:	A3UX16		
Lims ID:	240-127107-B-26	Lab Sample ID:	240-127107-26		
Client ID:	MSA-SW44B-030320				
Operator ID:	001765	ALS Bottle#:	23	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

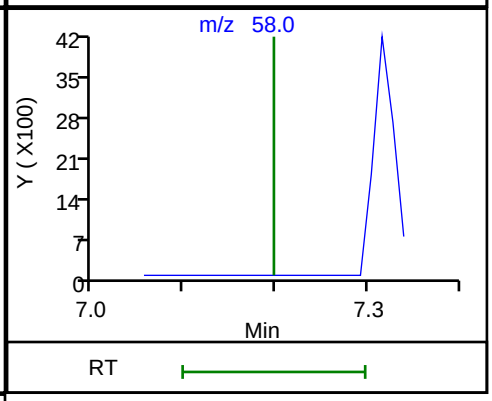
69 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

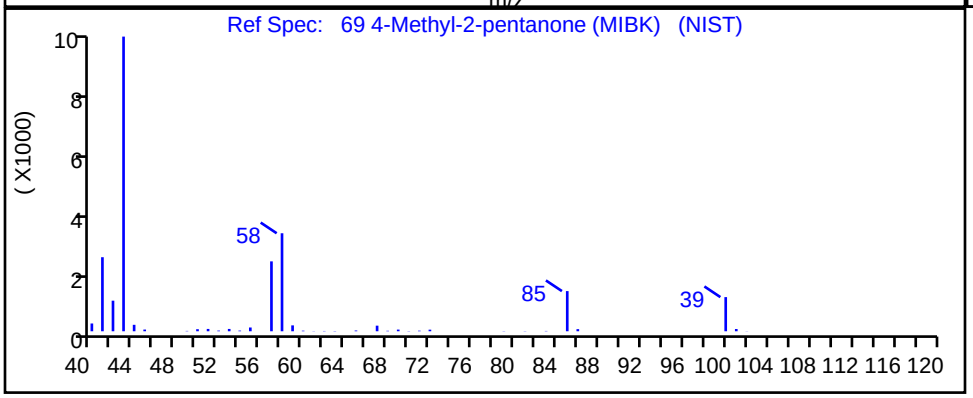
Processing Results











RT	Mass	Response	Amount
7.14	43.00	2016	0.241942
7.20	58.00	0	

Reviewer: bosworthh, 09-Mar-2020 09:42:58

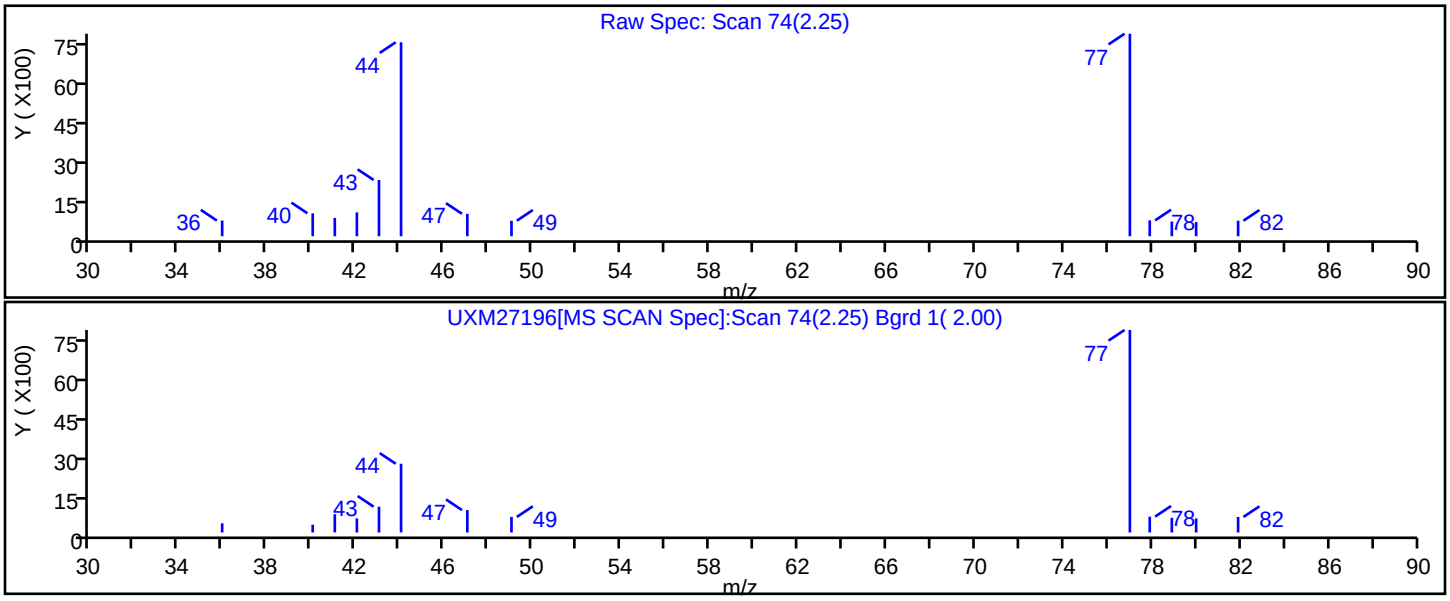
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Report Date: 09-Mar-2020 09:43:37 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27196.D				
Injection Date:	06-Mar-2020 19:10:30	Instrument ID:	A3UX16		
Lims ID:	240-127107-B-26	Lab Sample ID:	240-127107-26		
Client ID:	MSA-SW44B-030320				
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:		Detector	MS SCAN		

No Library Matches Found above the Threshold: 50



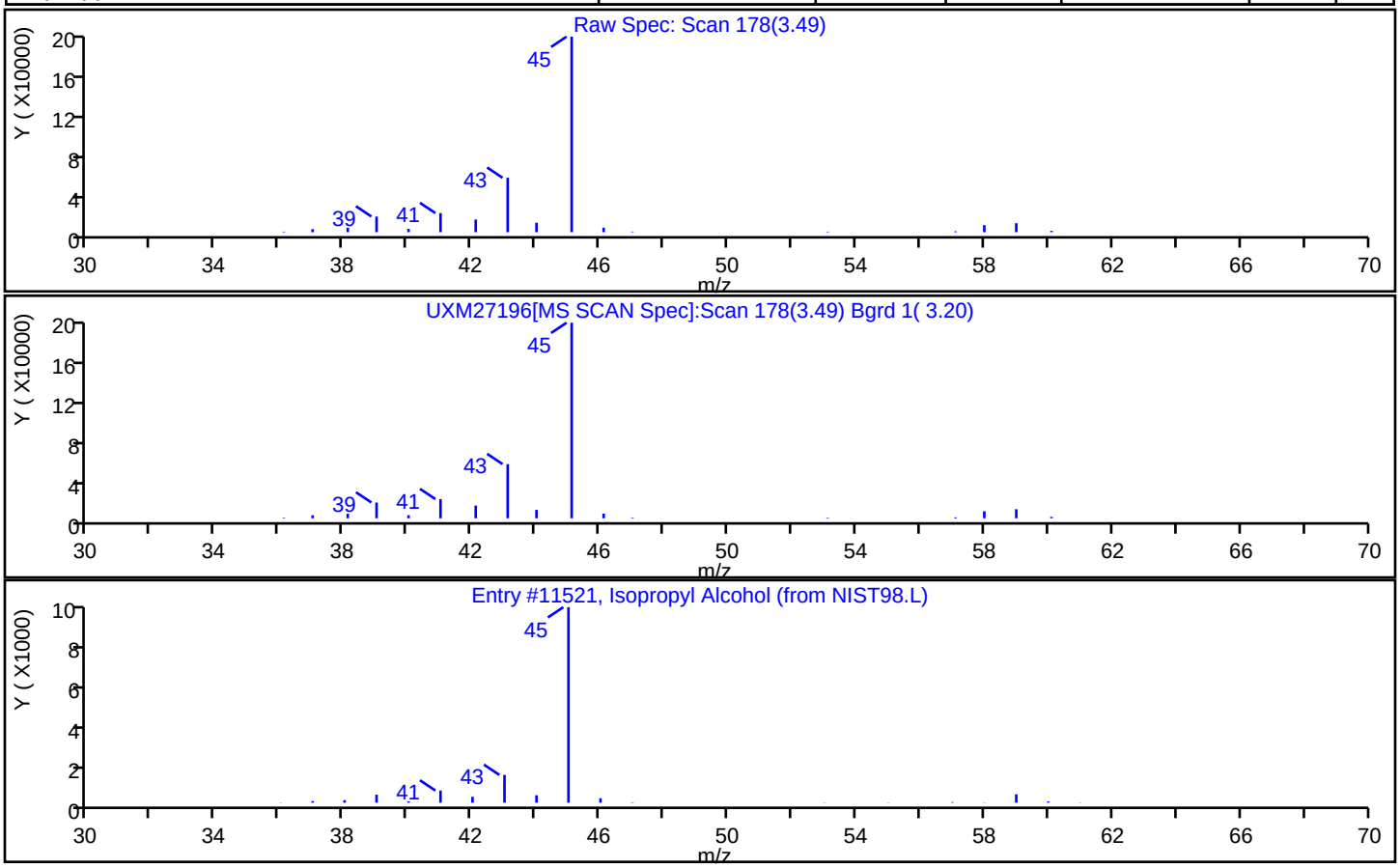
Report Date: 09-Mar-2020 09:43:37 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27196.D

Injection Date:	06-Mar-2020 19:10:30	Instrument ID:	A3UX16		
Lims ID:	240-127107-B-26	Lab Sample ID:	240-127107-26		
Client ID:	MSA-SW44B-030320				
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:		Detector	MS SCAN		

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Isopropyl Alcohol	67-63-0	NIST98.L	11521	C3H8O	60	78



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Matrix: Water Lab File ID: UXM27197.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:34

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Matrix: Water Lab File ID: UXM27197.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:34

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Matrix: Water Lab File ID: UXM27197.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:34

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-130
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
2037-26-5	Toluene-d8 (Surr)	92		69-122
1868-53-7	Dibromofluoromethane (Surr)	121		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Matrix: Water Lab File ID: UXM27197.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:34

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44C-030320 Lab Sample ID: 240-127107-27

Matrix: Water Lab File ID: UXM27197.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:34

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.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27197.D
Lims ID: 240-127107-B-27
Client ID: MSA-SW44C-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 19:34:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-024
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:44:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.928	0.001	99	905226	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	719568	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	352589	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	228819	24.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	258708	21.1	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	865126	18.3	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	89	345637	21.2	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50	1.956	1.956	0.000	96	2446	0.1254	
11 Vinyl chloride	62	2.075	2.074	0.000	95	3267	0.1654	
13 Bromomethane	94	2.430	2.418	0.012	5	917	0.0718	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58		3.355				ND	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

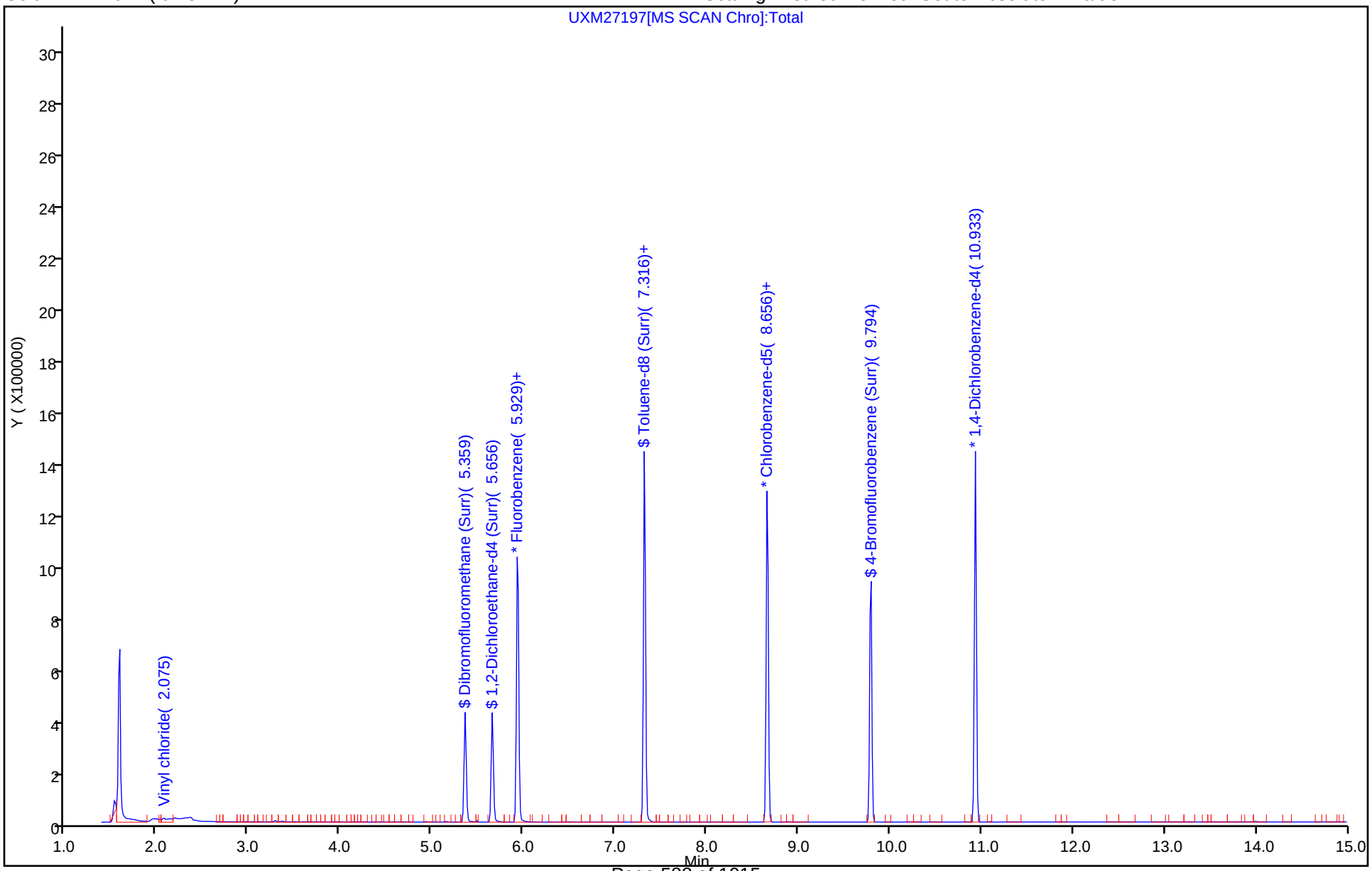
Report Date: 09-Mar-2020 09:44:28 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27197.D

Injection Date:	06-Mar-2020 19:34:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-27	Lab Sample ID:	240-127107-27	Worklist Smp#:	24
Client ID:	MSA-SW44C-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27197.D
Lims ID: 240-127107-B-27
Client ID: MSA-SW44C-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 19:34:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-024
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:44:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	24.2	121.20
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.1	105.34
$ 6 Toluene-d8 (Surr)	20.0	18.3	91.65
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.2	106.12

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Matrix: Water Lab File ID: UXM27198.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:19

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:59

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Matrix: Water Lab File ID: UXM27198.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:19

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:59

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Matrix: Water Lab File ID: UXM27198.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:19

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:59

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
2037-26-5	Toluene-d8 (Surr)	94		69-122
1868-53-7	Dibromofluoromethane (Surr)	120		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Matrix: Water Lab File ID: UXM27198.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:19

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:59

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW44D-030320 Lab Sample ID: 240-127107-28

Matrix: Water Lab File ID: UXM27198.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:19

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 19:59

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.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27198.D
Lims ID: 240-127107-B-28
Client ID: MSA-SW44D-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 19:59:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-025
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:45:11

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.929	5.928	0.001	99	889043	20.0	
*	2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	700117	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	341310	20.0	
$	4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	222489	24.0	
$	5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	251522	20.9	
$	6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	859093	18.7	
$	7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	90	334292	21.1	
	9 Dichlorodifluoromethane	85		1.754				ND	
	10 Chloromethane	50	1.956	1.956	0.000	96	2583	0.1348	
	11 Vinyl chloride	62	2.075	2.074	0.000	95	2652	0.1367	
	13 Bromomethane	94		2.418				ND	
	14 Chloroethane	64		2.537				ND	
	16 Trichlorofluoromethane	101		2.810				ND	
	19 1,1-Dichloroethene	96		3.320				ND	
	20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
	21 Acetone	58		3.355				ND	
	24 Carbon disulfide	76		3.533				ND	
	28 Methylene Chloride	84		3.794				ND	
	29 2-Methyl-2-propanol	59		3.877				ND	
	31 Methyl tert-butyl ether	73		4.031				ND	
	32 trans-1,2-Dichloroethene	96		4.043				ND	
	35 Vinyl acetate	43		4.422				ND	
	34 1,1-Dichloroethane	63		4.434				ND	
	36 Isopropyl ether	87		4.458				ND	
	38 Tert-butyl ethyl ether	59		4.766				ND	
	40 2-Butanone (MEK)	72		4.921				ND	
	39 cis-1,2-Dichloroethene	96		4.932				ND	
	41 2,2-Dichloropropane	77		4.944				ND	
	45 Chlorobromomethane	128		5.146				ND	
	47 Chloroform	83		5.229				ND	
	48 1,1,1-Trichloroethane	97		5.371				ND	
	51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

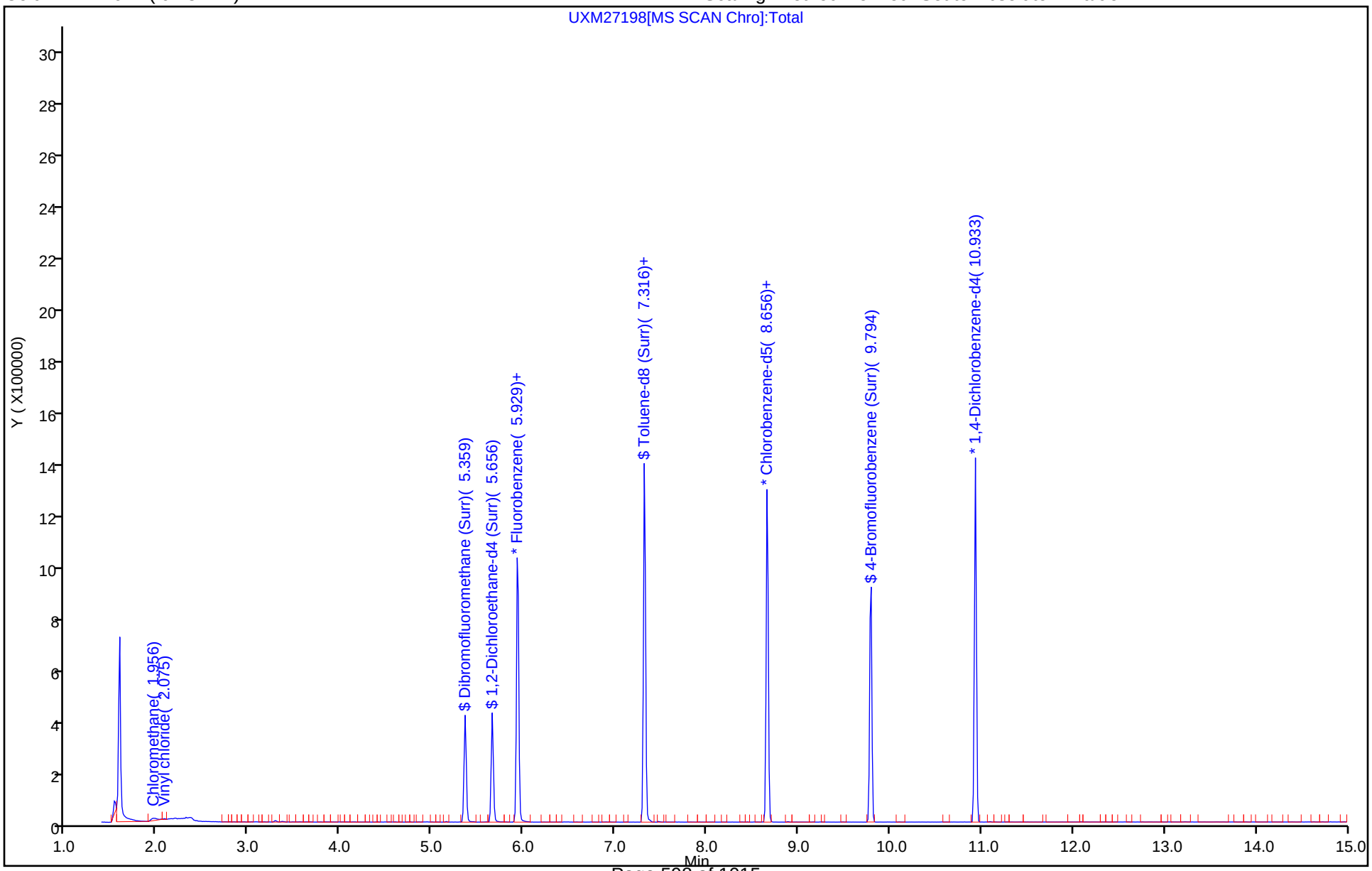
Report Date: 09-Mar-2020 09:45:12 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27198.D

Injection Date:	06-Mar-2020 19:59:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-28	Lab Sample ID:	240-127107-28	Worklist Smp#:	25
Client ID:	MSA-SW44D-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27198.D
Lims ID: 240-127107-B-28
Client ID: MSA-SW44D-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 19:59:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-025
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:45:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	24.0	119.99
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.9	104.28
$ 6 Toluene-d8 (Surr)	20.0	18.7	93.54
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.1	105.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

Matrix: Water Lab File ID: UXM27199.D

Analysis Method: 8260C Date Collected: 03/03/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:24

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

Matrix: Water Lab File ID: UXM27199.D

Analysis Method: 8260C Date Collected: 03/03/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:24

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

Matrix: Water Lab File ID: UXM27199.D

Analysis Method: 8260C Date Collected: 03/03/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:24

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		75-130
460-00-4	4-Bromofluorobenzene (Surr)	106		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	121		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

Matrix: Water Lab File ID: UXM27199.D

Analysis Method: 8260C Date Collected: 03/03/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:24

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: TB-030320 Lab Sample ID: 240-127107-29

Matrix: Water Lab File ID: UXM27199.D

Analysis Method: 8260C Date Collected: 03/03/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:24

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.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27199.D
Lims ID: 240-127107-B-29
Client ID: TB-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 20:24:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-026
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:49:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.928	0.001	99	911512	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	87	717719	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	343094	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	229279	24.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	263590	21.3	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	879217	18.7	
$ 7 4-Bromofluorobenzene (Surr	95	9.795	9.794	0.001	89	345499	21.3	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62		2.074				ND	
13 Bromomethane	94	2.430	2.418	0.012	7	1018	0.0791	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58		3.355				ND	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

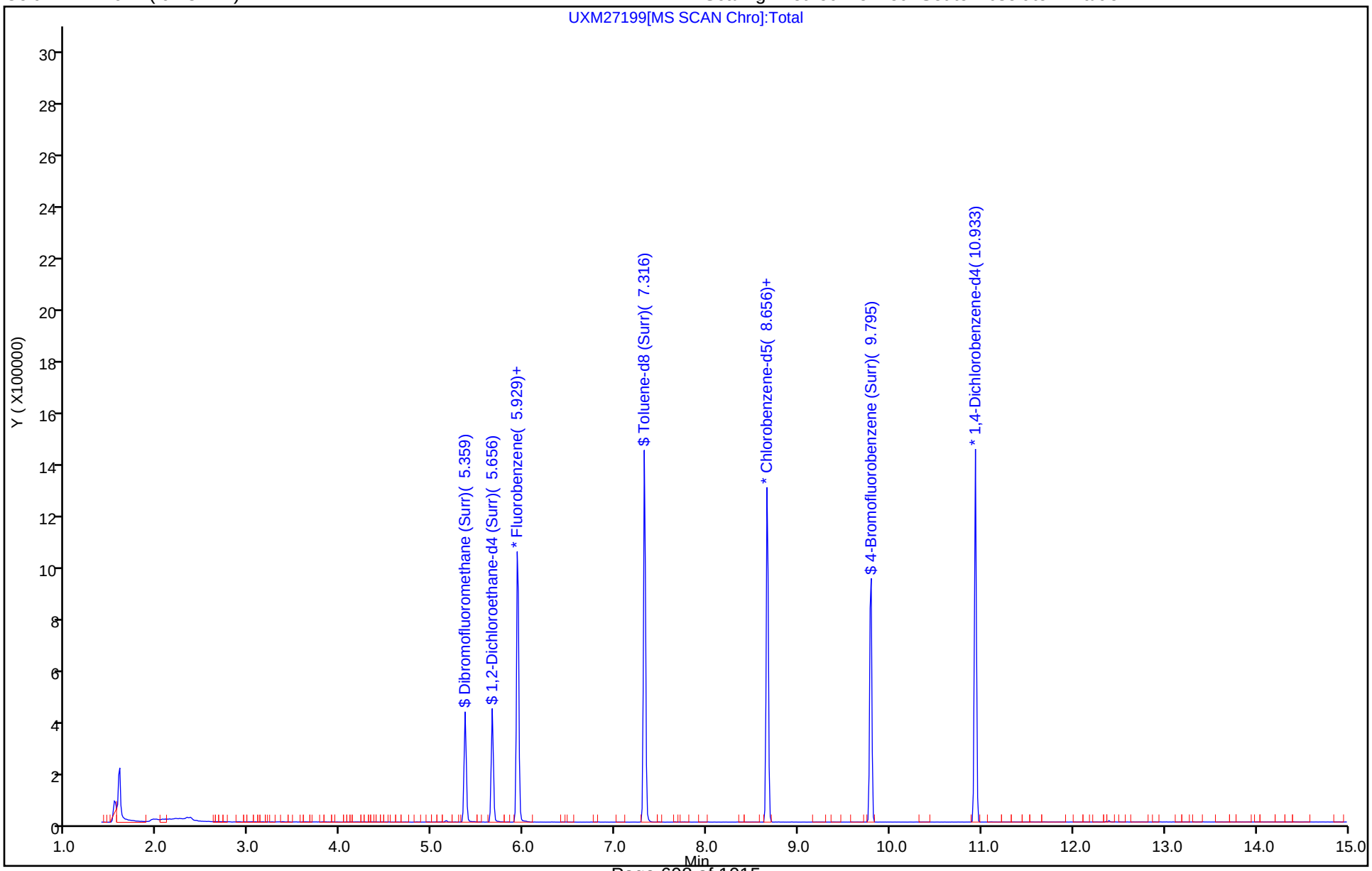
Report Date: 09-Mar-2020 09:49:57 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27199.D

Injection Date:	06-Mar-2020 20:24:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-29	Lab Sample ID:	240-127107-29	Worklist Smp#:	26
Client ID:	TB-030320				
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27199.D
Lims ID: 240-127107-B-29
Client ID: TB-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 20:24:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-026
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:49:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	24.1	120.60
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.3	106.59
$ 6 Toluene-d8 (Surr)	20.0	18.7	93.39
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.3	106.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

Matrix: Water Lab File ID: UXM27200.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:49

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

Matrix: Water Lab File ID: UXM27200.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:49

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

Matrix: Water Lab File ID: UXM27200.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:49

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		75-130
460-00-4	4-Bromofluorobenzene (Surr)	108		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	121		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

Matrix: Water Lab File ID: UXM27200.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:49

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.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW46A-030320 Lab Sample ID: 240-127107-30

Matrix: Water Lab File ID: UXM27200.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 20:49

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.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27200.D
Lims ID: 240-127107-B-30
Client ID: MSA-SW46A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 20:49:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-027
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:52:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.928	0.000	99	910474	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	713126	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	350982	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	229497	24.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	258594	20.9	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	868090	18.6	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	89	347353	21.5	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.074	2.074	0.000	89	2551	0.1284	
13 Bromomethane	94	2.430	2.418	0.012	10	875	0.0681	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58	3.367	3.355	0.012	96	1684	0.1485	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

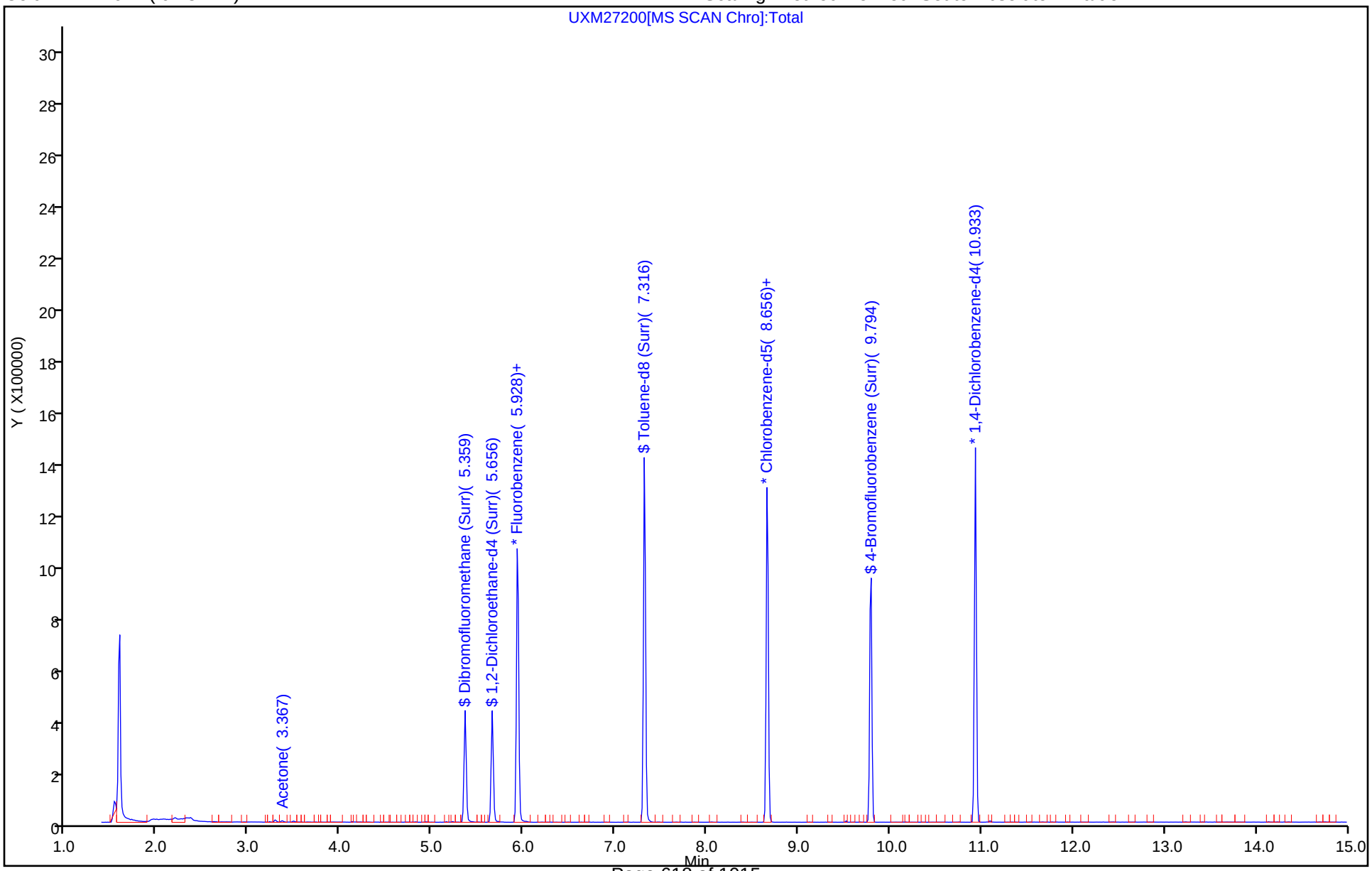
Report Date: 09-Mar-2020 09:52:53 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27200.D

Injection Date:	06-Mar-2020 20:49:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-30	Lab Sample ID:	240-127107-30	Worklist Smp#:	27
Client ID:	MSA-SW46A-030320				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27200.D
Lims ID: 240-127107-B-30
Client ID: MSA-SW46A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 20:49:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-027
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:52:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	24.2	120.86
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.9	104.69
$ 6 Toluene-d8 (Surr)	20.0	18.6	92.80
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.5	107.61

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Matrix: Water Lab File ID: UXM27201.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Matrix: Water Lab File ID: UXM27201.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.22	J	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Matrix: Water Lab File ID: UXM27201.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		75-130
460-00-4	4-Bromofluorobenzene (Surr)	105		47-134
2037-26-5	Toluene-d8 (Surr)	92		69-122
1868-53-7	Dibromofluoromethane (Surr)	114		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Matrix: Water Lab File ID: UXM27201.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW47A-030320 Lab Sample ID: 240-127107-31

Matrix: Water Lab File ID: UXM27201.D

Analysis Method: 8260C Date Collected: 03/03/2020 09:16

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27201.D
Lims ID: 240-127107-B-31
Client ID: MSA-SW47A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 21:14:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-028
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:53:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.928	0.001	99	977056	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	755160	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	362881	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	233058	22.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	274622	20.7	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	909111	18.4	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	89	357689	20.9	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.075	2.074	0.001	93	4776	0.2241	
13 Bromomethane	94		2.418				ND	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58	3.367	3.355	0.012	98	2576	0.9452	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

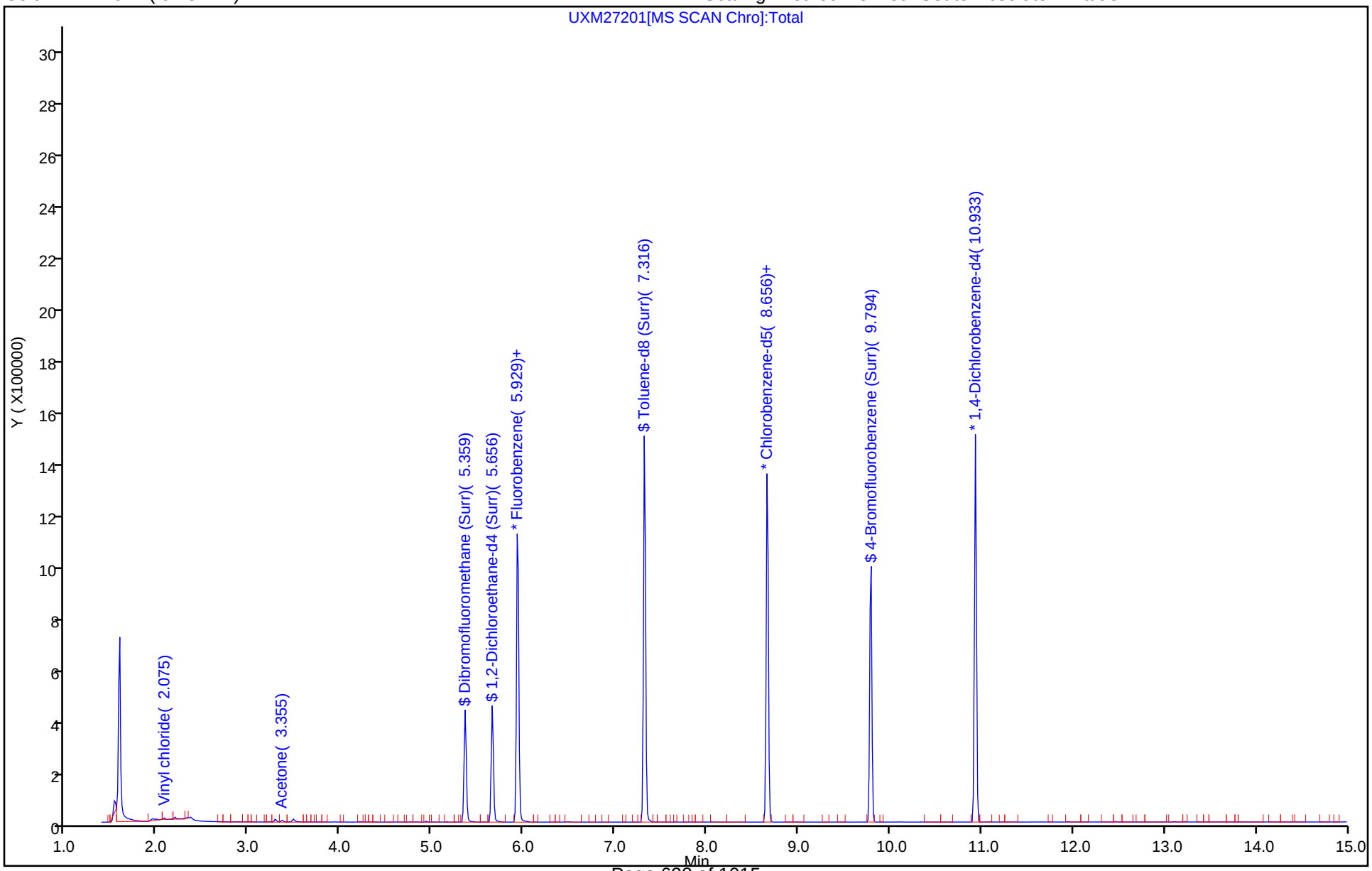
Report Date: 09-Mar-2020 09:53:43 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27201.D

Injection Date:	06-Mar-2020 21:14:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-31	Lab Sample ID:	240-127107-31	Worklist Smp#:	28
Client ID:	MSA-SW47A-030320				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27201.D
Lims ID: 240-127107-B-31
Client ID: MSA-SW47A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 21:14:30 ALS Bottle#: 28 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-028
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:53:43

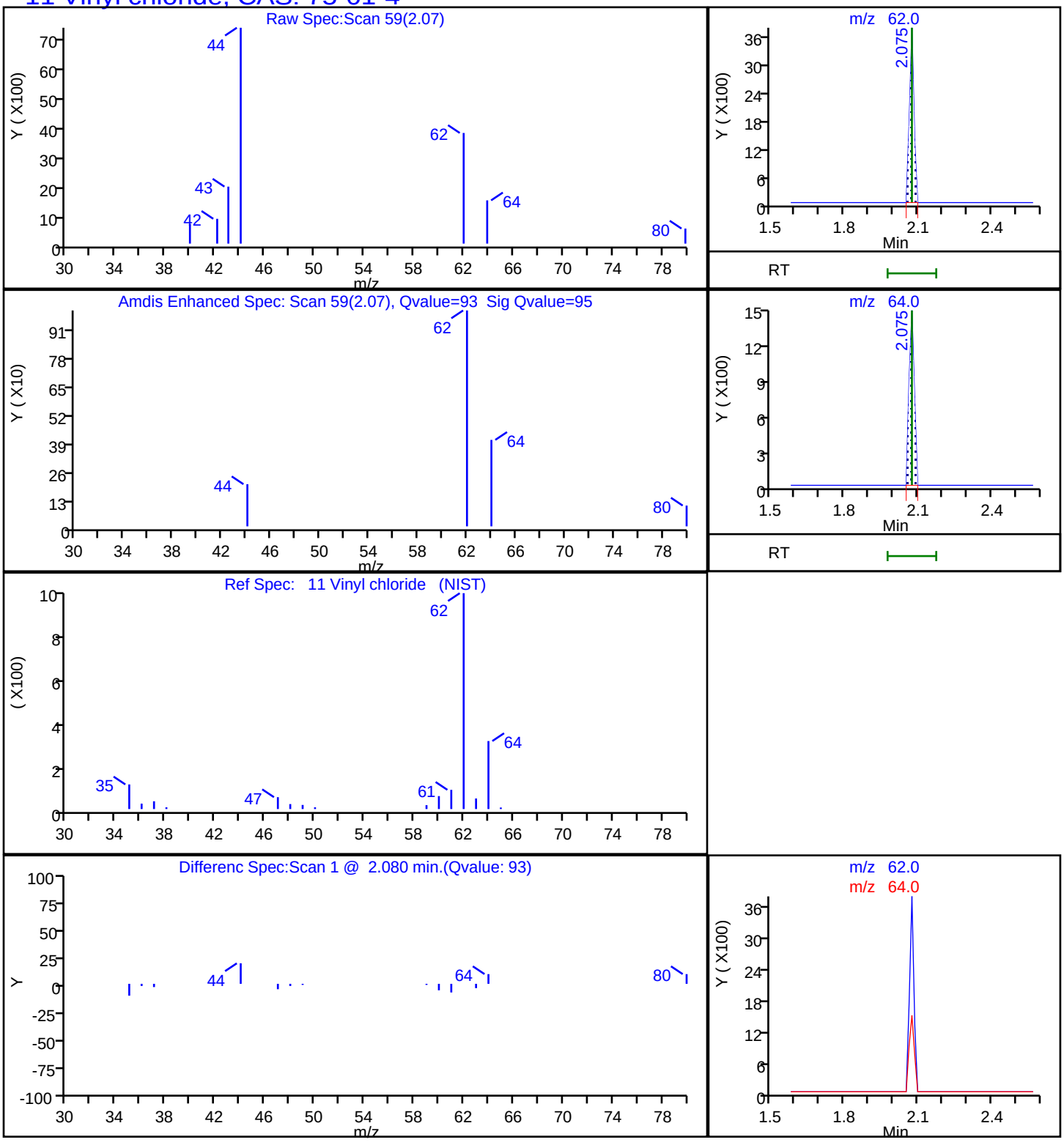
Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.9	114.37
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.7	103.60
$ 6 Toluene-d8 (Surr)	20.0	18.4	91.78
$ 7 4-Bromofluorobenzene (Surr)	20.0	20.9	104.64

Report Date: 09-Mar-2020 09:53:43 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27201.D				
Injection Date:	06-Mar-2020 21:14:30	Instrument ID:	A3UX16		
Lims ID:	240-127107-B-31	Lab Sample ID:	240-127107-31		
Client ID:	MSA-SW47A-030320				
Operator ID:	001765	ALS Bottle#:	28	Worklist Smp#:	28
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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Matrix: Water Lab File ID: UXM27202.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Matrix: Water Lab File ID: UXM27202.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Matrix: Water Lab File ID: UXM27202.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		75-130
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	114		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Matrix: Water Lab File ID: UXM27202.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW48A-030320 Lab Sample ID: 240-127107-32

Matrix: Water Lab File ID: UXM27202.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:59

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 21:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27202.D
Lims ID: 240-127107-B-32
Client ID: MSA-SW48A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 21:39:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-029
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:54:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.928	0.001	99	1022422	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	85	781344	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	373021	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	243985	22.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	296631	21.4	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	977677	19.1	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	89	379683	21.5	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.075	2.074	0.001	19	3578	0.1604	
13 Bromomethane	94	2.430	2.418	0.012	6	988	0.0685	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58		3.355				ND	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

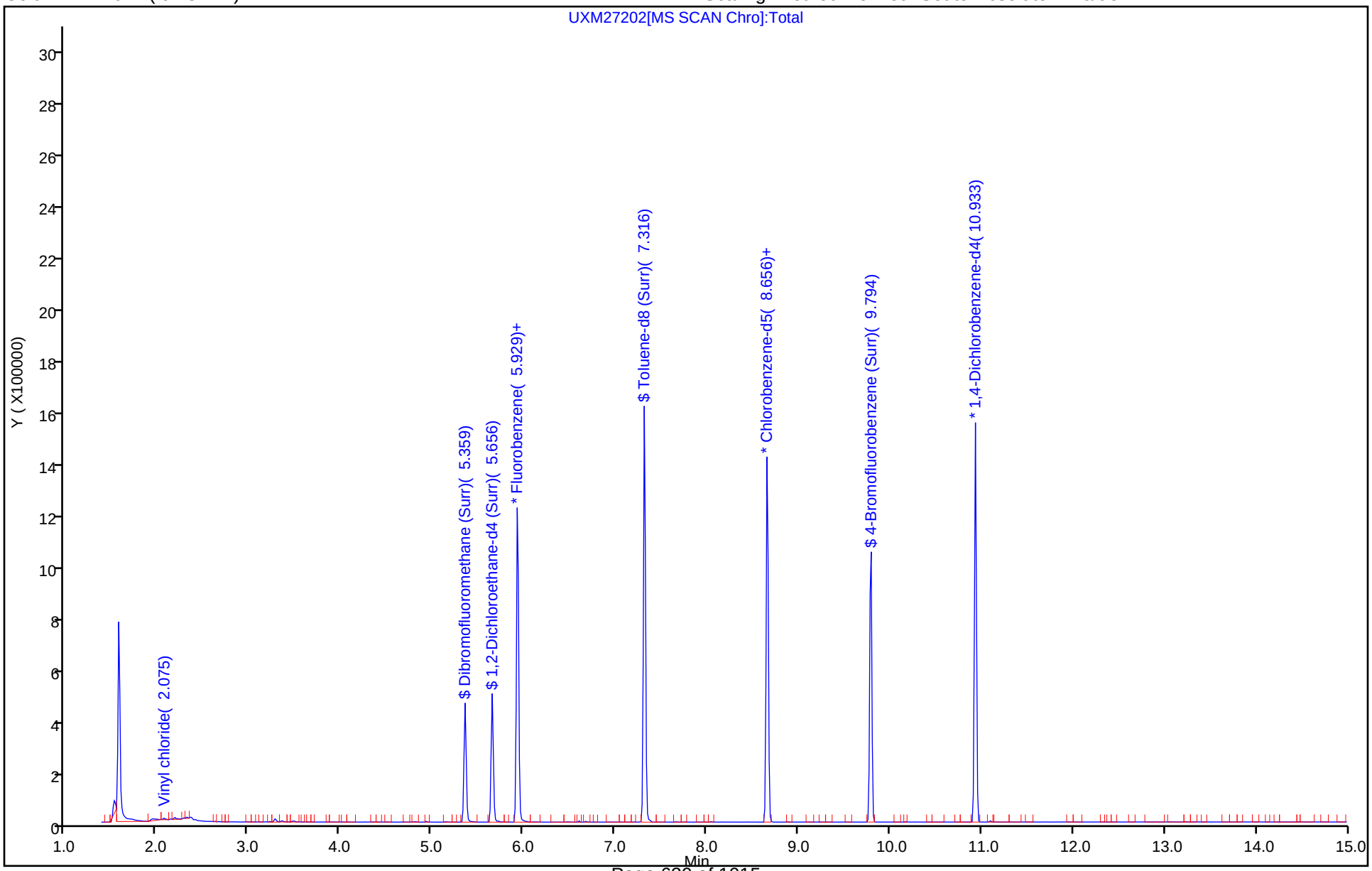
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 09-Mar-2020 09:54:24 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27202.D				
Injection Date:	06-Mar-2020 21:39:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-32	Lab Sample ID:	240-127107-32	Worklist Smp#:	29
Client ID:	MSA-SW48A-030320				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27202.D
Lims ID: 240-127107-B-32
Client ID: MSA-SW48A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 21:39:30 ALS Bottle#: 29 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-029
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:54:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.9	114.42
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.4	106.94
$ 6 Toluene-d8 (Surr)	20.0	19.1	95.39
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.5	107.35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

Matrix: Water Lab File ID: UXM27203.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 22:04

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

Matrix: Water Lab File ID: UXM27203.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 22:04

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

Matrix: Water Lab File ID: UXM27203.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 22:04

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		75-130
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
2037-26-5	Toluene-d8 (Surr)	97		69-122
1868-53-7	Dibromofluoromethane (Surr)	116		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

Matrix: Water Lab File ID: UXM27203.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 22:04

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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.: 240-127107-1

SDG No.:

Client Sample ID: MSA-SW49A-030320 Lab Sample ID: 240-127107-33

Matrix: Water Lab File ID: UXM27203.D

Analysis Method: 8260C Date Collected: 03/03/2020 08:37

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 22:04

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27203.D
Lims ID: 240-127107-B-33
Client ID: MSA-SW49A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 22:04:30 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-030
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:54:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.928	0.000	99	1020429	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	771552	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	370742	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	247613	23.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	297390	21.5	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	982198	19.4	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	89	374127	21.4	
9 Dichlorodifluoromethane	85		1.754				ND	
10 Chloromethane	50		1.956				ND	
11 Vinyl chloride	62	2.074	2.074	0.000	93	4179	0.1877	
13 Bromomethane	94		2.418				ND	
14 Chloroethane	64		2.537				ND	
16 Trichlorofluoromethane	101		2.810				ND	
19 1,1-Dichloroethene	96		3.320				ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331				ND	
21 Acetone	58		3.355				ND	
24 Carbon disulfide	76		3.533				ND	
28 Methylene Chloride	84		3.794				ND	
29 2-Methyl-2-propanol	59		3.877				ND	
31 Methyl tert-butyl ether	73		4.031				ND	
32 trans-1,2-Dichloroethene	96		4.043				ND	
35 Vinyl acetate	43		4.422				ND	
34 1,1-Dichloroethane	63		4.434				ND	
36 Isopropyl ether	87		4.458				ND	
38 Tert-butyl ethyl ether	59		4.766				ND	
40 2-Butanone (MEK)	72		4.921				ND	
39 cis-1,2-Dichloroethene	96		4.932				ND	
41 2,2-Dichloropropane	77		4.944				ND	
45 Chlorobromomethane	128		5.146				ND	
47 Chloroform	83		5.229				ND	
48 1,1,1-Trichloroethane	97		5.371				ND	
51 Carbon tetrachloride	117		5.513				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
50 1,1-Dichloropropene	75		5.513				ND	
54 Benzene	78		5.679				ND	
53 1,2-Dichloroethane	62		5.727				ND	
55 Tert-amyl methyl ether	73		5.774				ND	
58 Trichloroethene	130		6.249				ND	
61 1,2-Dichloropropane	63		6.474				ND	
63 Dibromomethane	93		6.545				ND	
65 Dichlorobromomethane	83		6.699				ND	
67 2-Chloroethyl vinyl ether	63		6.925				ND	
68 cis-1,3-Dichloropropene	75		7.079				ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197				ND	
70 Toluene	91		7.375				ND	
71 trans-1,3-Dichloropropene	75		7.577				ND	
75 Tetrachloroethene	164		7.850				ND	
74 1,3-Dichloropropane	76		7.909				ND	
76 2-Hexanone	43		7.944				ND	
78 Chlorodibromomethane	129		8.110				ND	
80 Ethylene Dibromide	107		8.241				ND	
82 Chlorobenzene	112		8.692				ND	
83 1,1,1,2-Tetrachloroethane	131		8.763				ND	
84 Ethylbenzene	106		8.775				ND	
85 m-Xylene & p-Xylene	106		8.893				ND	
86 o-Xylene	106		9.261				ND	
87 Styrene	104		9.284				ND	
88 Bromoform	173		9.462				ND	
89 Isopropylbenzene	105		9.616				ND	
92 1,1,2,2-Tetrachloroethane	83		9.913				ND	
93 Bromobenzene	156		9.937				ND	
95 1,2,3-Trichloropropane	110		9.972				ND	
96 N-Propylbenzene	120		10.020				ND	
97 2-Chlorotoluene	126		10.115				ND	
100 4-Chlorotoluene	126		10.233				ND	
102 tert-Butylbenzene	119		10.506				ND	
104 1,2,4-Trimethylbenzene	105		10.565				ND	
105 sec-Butylbenzene	105		10.731				ND	
106 1,3-Dichlorobenzene	146		10.862				ND	
107 4-Isopropyltoluene	119		10.885				ND	
108 1,4-Dichlorobenzene	146		10.956				ND	
109 1,2,3-Trimethylbenzene	105		10.980				ND	
111 n-Butylbenzene	91		11.289				ND	
112 1,2-Dichlorobenzene	146		11.324				ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	
115 1,2,4-Trichlorobenzene	180		12.937				ND	
116 Hexachlorobutadiene	225		13.091				ND	
117 Naphthalene	128		13.233				ND	
118 1,2,3-Trichlorobenzene	180		13.482				ND	
S 133 Xylenes, Total	106		17.050				ND	
T 125 Chlorodifluoromethane TIC	51		1.944				ND	

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

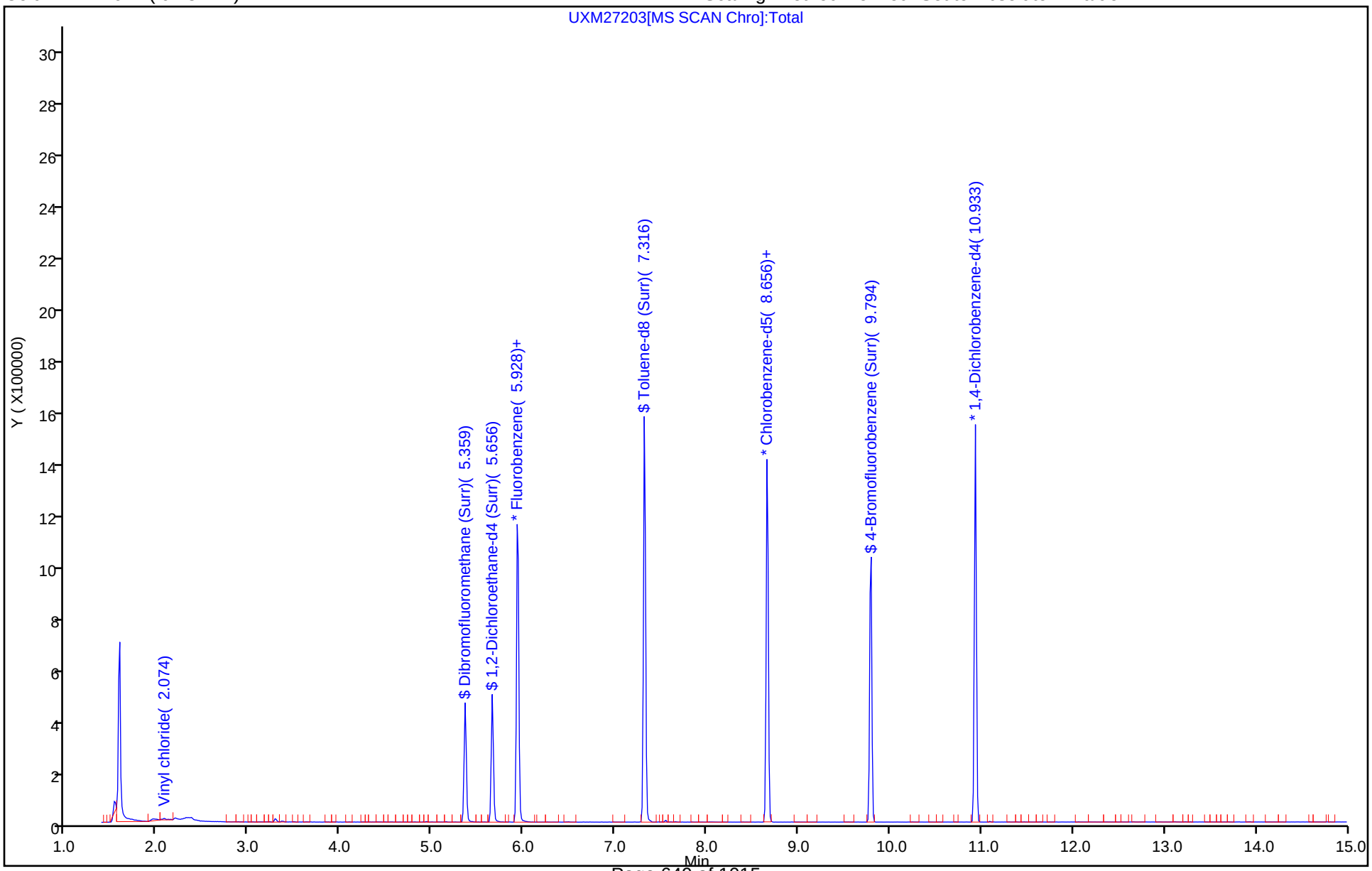
Report Date: 09-Mar-2020 09:54:57 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27203.D

Injection Date:	06-Mar-2020 22:04:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127107-B-33	Lab Sample ID:	240-127107-33	Worklist Smp#:	30
Client ID:	MSA-SW49A-030320				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27203.D
Lims ID: 240-127107-B-33
Client ID: MSA-SW49A-030320
Sample Type: Client
Inject. Date: 06-Mar-2020 22:04:30 ALS Bottle#: 30 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-030
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 09-Mar-2020 09:43:36 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0303

First Level Reviewer: bosworthh Date: 09-Mar-2020 09:54:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	23.3	116.35
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	21.5	107.42
$ 6 Toluene-d8 (Surr)	20.0	19.4	97.05
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.4	107.12

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-421991/16	UXM26860.D
Level 2	STD8260 240-421991/15	UXM26859.D
Level 3	STD8260 240-421991/14	UXM26858.D
Level 4	ICIS 240-421991/13	UXM26857.D
Level 5	STD8260 240-421991/12	UXM26856.D
Level 6	STD8260 240-421991/11	UXM26855.D
Level 7	STD8260 240-421991/10	UXM26854.D
Level 8	STD8260 240-421991/9	UXM26853.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2278 0.3144	0.2486 0.2938	0.2998 0.2926	0.2910	0.3292	Ave		0.2872			0.1000	11.6		20.0			
Chloromethane	0.4724 0.4241	0.4517 0.4090	0.4337 0.3990	0.4094	0.4479	Ave		0.4309			0.1000	5.9		20.0			
Vinyl chloride	0.4090 0.4434	0.4087 0.4370	0.4581 0.4371	0.4263	0.4708	Ave		0.4363			0.1000	5.0		20.0			
Butadiene	0.3304 0.3596	0.3224 0.3517	0.3678 0.3506	0.3515	0.3627	Ave		0.3496				4.5		20.0			
Bromomethane	0.3068 +++++	0.2872 +++++	0.2674 +++++	0.2836	0.2660	Ave		0.2822			0.0500	5.9		20.0			
Chloroethane	0.1881 0.2598	0.1921 0.2664	0.2186 0.2453	0.2193	0.2410	Ave		0.2288			0.0500	12.8		20.0			
Dichlorofluoromethane	0.4183 0.4697	0.4419 0.4654	0.4565 0.4677	0.4408	0.4912	Ave		0.4564				4.9		20.0			
Trichlorofluoromethane	0.3059 0.3895	0.3051 0.3790	0.3626 0.3875	0.3542	0.4003	Ave		0.3605			0.1000	10.3		20.0			
Ethyl ether	0.2017 0.2052	0.1907 0.2007	0.2073 0.1978	0.1955	0.2094	Ave		0.2010				3.1		20.0			
Acrolein	0.0303 0.0429	0.0343 0.0441	0.0426 0.0404	0.0402	0.0417	Ave		0.0395				12.1		20.0			
1,1-Dichloroethene	0.1855 0.2356	0.1953 0.2343	0.2135 0.2438	0.2162	0.2391	Ave		0.2204			0.1000	9.8		20.0			
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1097 0.1618	0.1194 0.1534	0.1414 0.1668	0.1476	0.1612	Ave		0.1452			0.0500	14.3		20.0			
Acetone	+++++ 0.0206	0.0340 0.0208	0.0234 0.0188	0.0208	0.0205	Lin1	0.0341	0.0198			0.0100	8.5			0.9970		0.9900
Iodomethane	0.2598 0.2567	0.2412 0.2623	0.2270 0.2633	0.2361	0.2606	Ave		0.2509				5.6		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	0.7409 0.8039	0.6892 0.7892	0.7405 0.8108	0.7549	0.8271	Ave		0.7696			0.1000	6.0		20.0			
Methyl acetate	0.1794 0.1759	0.1841 0.1764	0.1837 0.1625	0.1701	0.1672	Ave		0.1749			0.1000	4.4		20.0			
3-Chloro-1-propene	0.3868 0.3976	0.3769 0.3943	0.3767 0.3992	0.3793	0.4101	Ave		0.3901				3.1		20.0			
Methylene Chloride	0.3114 0.2605	0.2778 0.2569	0.2572 0.2568	0.2498	0.2701	Ave		0.2676			0.1000	7.4		20.0			
tert-Butyl alcohol	0.0208 0.0226	0.0213 0.0228	0.0246 0.0189	0.0216	0.0205	Ave		0.0216				8.1		20.0			
Acrylonitrile	0.0917 0.1029	0.0970 0.1049	0.1023 0.0988	0.0968	0.0980	Ave		0.0991				4.2		20.0			
Methyl tert-butyl ether	0.6108 0.7696	0.6329 0.7835	0.7173 0.7826	0.7019	0.7495	Ave		0.7185			0.1000	9.3		20.0			
trans-1,2-Dichloroethene	0.2349 0.2819	0.2462 0.2851	0.2545 0.2990	0.2593	0.2840	Ave		0.2681			0.1000	8.4		20.0			
Hexane	+++++ 0.4047	0.2819 0.3711	0.3515 0.3952	0.3612	0.4034	Ave		0.3670				11.7		20.0			
Vinyl acetate	0.3172 0.4546	0.3327 0.4647	0.4017 0.4588	0.4130	0.4559	Ave		0.4123				14.2		20.0			
1,1-Dichloroethane	0.4416 0.4787	0.4363 0.4781	0.4615 0.4886	0.4588	0.4990	Ave		0.4678			0.2000	4.7		20.0			
2-Butanone	0.0200 0.0303	0.0240 0.0308	0.0299 0.0283	0.0275	0.0287	Ave		0.0274			0.0100	13.4		20.0			
cis-1,2-Dichloroethene	0.2446 0.2965	0.2647 0.2987	0.2759 0.3122	0.2768	0.3030	Ave		0.2840			0.1000	8.0		20.0			
2,2-Dichloropropane	0.3342 0.4283	0.3368 0.4325	0.3854 0.4514	0.3970	0.4346	Ave		0.4000				11.3		20.0			
Bromochloromethane	0.1011 0.1127	0.1113 0.1104	0.1107 0.1100	0.1100	0.1197	Ave		0.1107				4.6		20.0			
Tetrahydrofuran	0.0747 0.0705	0.0707 0.0707	0.0734 0.0626	0.0679	0.0667	Ave		0.0696				5.5		20.0			
Chloroform	0.3946 0.4414	0.4120 0.4372	0.4278 0.4469	0.4267	0.4596	Ave		0.4308			0.2000	4.7		20.0			
1,1,1-Trichloroethane	0.3118 0.3928	0.3244 0.3957	0.3630 0.4081	0.3686	0.4027	Ave		0.3709			0.1000	9.8		20.0			
Cyclohexane	0.3328 0.4633	0.3757 0.4446	0.4235 0.4705	0.4352	0.4697	Ave		0.4269			0.1000	11.5		20.0			
1,1-Dichloropropene	0.3164 0.4033	0.3117 0.4091	0.3617 0.4261	0.3740	0.4061	Ave		0.3760				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.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	0.2330 0.3326	0.2463 0.3393	0.2879 0.3585	0.2993	0.3340	Ave		0.3039			0.1000	15.0		20.0			
Isobutyl alcohol	0.0052 0.0072	0.0059 0.0072	0.0077 0.0061	0.0067	0.0065	Ave		0.0066				12.3		20.0			
Benzene	1.0129 1.1634	0.9812 1.1711	1.0777 1.2012	1.0837	1.1822	Ave		1.1092			0.5000	7.5		20.0			
1,2-Dichloroethane	0.3074 0.3497	0.3288 0.3419	0.3517 0.3423	0.3398	0.3596	Ave		0.3402			0.1000	4.7		20.0			
n-Heptane	+++++ 0.2148	0.8042 0.1971	0.2571 0.2065	0.2232	0.2213	Lin1	0.6024	0.1991				3.4			0.9990		0.9900
Trichloroethene	0.2137 0.2651	0.2155 0.2653	0.2420 0.2756	0.2467	0.2688	Ave		0.2491			0.1500	9.7		20.0			
Methylcyclohexane	+++++ 0.4927	0.3378 0.4731	0.4305 0.5142	0.4438	0.4902	Ave		0.4546			0.1000	13.0		20.0			
1,2-Dichloropropane	0.2276 0.2706	0.2238 0.2716	0.2538 0.2766	0.2543	0.2801	Ave		0.2573			0.1000	8.4		20.0			
1,4-Dioxane	+++++ 0.0031	0.0027 0.0031	0.0033 0.0027	0.0030	0.0029	Ave		0.0030				7.0		20.0			
Dibromomethane	0.1219 0.1405	0.1253 0.1406	0.1361 0.1405	0.1333	0.1438	Ave		0.1353				5.8		20.0			
Bromodichloromethane	0.2515 0.3233	0.2598 0.3261	0.2968 0.3288	0.2990	0.3325	Ave		0.3022			0.1500	10.5		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1792	0.1225 0.1824	0.1652 0.1775	0.1628	0.1759	Ave		0.1665				12.4		20.0			
cis-1,3-Dichloropropene	0.3023 0.4370	0.3239 0.4389	0.3949 0.4460	0.4025	0.4445	Ave		0.3988			0.1500	14.2		20.0			
4-Methyl-2-pentanone	0.1582 0.2032	0.1705 0.2029	0.2106 0.1807	0.1939	0.1926	Ave		0.1891			0.0500	9.5		20.0			
Toluene	1.4178 1.7621	1.4585 1.7729	1.5552 1.8139	1.6044	1.7582	Ave		1.6429			0.4000	9.4		20.0			
trans-1,3-Dichloropropene	0.3787 0.5861	0.4209 0.5862	0.5162 0.5859	0.5232	0.5819	Ave		0.5224			0.1000	15.6		20.0			
Ethyl methacrylate	+++++ 0.4493	0.2874 0.4489	0.4114 0.4179	0.4115	0.4398	Ave		0.4095				13.8		20.0			
1,1,2-Trichloroethane	0.2370 0.3050	0.2493 0.3011	0.2905 0.2978	0.2828	0.3056	Ave		0.2836			0.1000	9.3		20.0			
Tetrachloroethene	0.1993 0.2876	0.2231 0.2930	0.2460 0.3075	0.2603	0.2825	Ave		0.2624			0.1500	14.3		20.0			
1,3-Dichloropropane	0.4847 0.5851	0.4874 0.5858	0.5682 0.5832	0.5552	0.5895	Ave		0.5549				7.9		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.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.1579 0.2038	0.1757 0.2028	0.2202 0.1744	0.2006	0.1935	Ave		0.1911			0.0500	10.6		20.0			
Dibromochloromethane	0.1980 0.3109	0.2024 0.3117	0.2608 0.3151	0.2736	0.3056	Ave		0.2723				17.9		20.0			
1,2-Dibromoethane	0.2323 0.3050	0.2331 0.3021	0.2832 0.2932	0.2811	0.3005	Ave		0.2788				10.7		20.0			
Chlorobenzene	0.8726 1.0428	0.9036 1.0483	0.9416 1.0889	0.9635	1.0470	Ave		0.9885			0.3000	8.0		20.0			
1,1,1,2-Tetrachloroethane	0.2136 0.3626	0.2181 0.3678	0.2894 0.3937	0.3061	0.3505	Lin1	-0.145	0.3709				17.8			0.9950		0.9900
Ethylbenzene	0.4678 0.6297	0.4793 0.6484	0.5277 0.6950	0.5566	0.6202	Ave		0.5781				14.3		20.0			
m-Xylene & p-Xylene	0.5900 0.7298	0.5987 0.7348	0.6463 0.7586	0.6778	0.7322	Ave		0.6835				9.6		20.0			
o-Xylene	0.5517 0.7278	0.5728 0.7411	0.6264 0.7784	0.6530	0.7142	Ave		0.6707				12.3		20.0			
Styrene	0.7382 1.2590	0.8062 1.2896	1.0144 1.3657	1.0941	1.2466	Lin1	-0.483	1.2957			0.3000	16.1			0.9960		0.9900
Bromoform	0.0972 0.1787	0.1105 0.1806	0.1408 0.1794	0.1483	0.1721	Lin1	-0.065	0.1769			0.1000	14.6			0.9970		0.9900
Isopropylbenzene	1.3736 1.8557	1.4801 1.8835	1.5895 1.9456	1.6873	1.8329	Ave		1.7060			0.1000	12.2		20.0			
1,1,2,2-Tetrachloroethane	0.5952 0.8223	0.6870 0.8081	0.8005 0.7793	0.7633	0.7996	Ave		0.7569			0.3000	10.3		20.0			
Bromobenzene	0.6318 0.7959	0.6240 0.8098	0.7225 0.8444	0.7226	0.7907	Ave		0.7427				11.1		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2770	0.2046 0.2762	0.2560 0.2602	0.2503	0.2632	Ave		0.2554				9.6		20.0			
1,2,3-Trichloropropane	0.2186 0.2548	0.2217 0.2552	0.2587 0.2396	0.2382	0.2508	Ave		0.2422				6.4		20.0			
n-Propylbenzene	0.8526 1.0752	0.8449 1.0991	0.9311 1.1593	0.9922	1.0723	Ave		1.0033				11.7		20.0			
2-Chlorotoluene	0.7181 0.8560	0.6921 0.8574	0.7815 0.9053	0.7929	0.8625	Ave		0.8082				9.3		20.0			
1,3,5-Trimethylbenzene	2.2512 3.2805	2.4331 3.3564	2.8377 3.4590	2.9591	3.2549	Ave		2.9790				14.9		20.0			
4-Chlorotoluene	0.7177 0.9060	0.7289 0.9184	0.8023 0.9496	0.8366	0.9045	Ave		0.8455				10.5		20.0			
tert-Butylbenzene	1.9139 2.7209	2.1025 2.7739	2.3595 2.9226	2.4600	2.6905	Ave		2.4930				14.1		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.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.2936 3.2372	2.4371 3.3142	2.8360 3.4427	2.9164	3.2166	Ave		2.9617				14.2		20.0			
sec-Butylbenzene	2.9792 4.2210	3.2202 4.2848	3.6423 4.3947	3.8436	4.1866	Ave		3.8466				13.7		20.0			
1,3-Dichlorobenzene	1.2460 1.5985	1.2835 1.6438	1.4074 1.7459	1.4461	1.5892	Ave		1.4950			0.6000	11.9		20.0			
p-Isopropyltoluene	2.2758 3.6236	2.5095 3.7442	3.0112 3.9527	3.2005	3.5646	Ave		3.2353				18.6		20.0			
1,4-Dichlorobenzene	1.3563 1.5596	1.4299 1.5771	1.4306 1.6437	1.4282	1.5686	Ave		1.4992			0.5000	6.7		20.0			
n-Butylbenzene	2.1064 3.3759	2.3252 3.3969	2.9005 3.5057	3.0630	3.3577	Ave		3.0039				17.6		20.0			
1,2-Dichlorobenzene	1.2224 1.4414	1.2060 1.4462	1.3185 1.5094	1.3130	1.4412	Ave		1.3623			0.4000	8.3		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1333	0.0922 0.1346	0.1223 0.1259	0.1188	0.1261	Ave		0.1219			0.0500	11.7		20.0			
1,2,4-Trichlorobenzene	0.5785 0.7703	0.6740 0.7903	0.6977 0.8202	0.6888	0.7698	Ave		0.7237			0.2000	10.9		20.0			
Hexachlorobutadiene	+++++ 0.3414	0.2410 0.3440	0.2921 0.3716	0.3037	0.3341	Ave		0.3183				13.6		20.0			
Naphthalene	1.7700 2.3263	2.0059 2.3525	2.2480 2.2060	2.1453	2.2374	Ave		2.1614				8.9		20.0			
1,2,3-Trichlorobenzene	0.5520 0.6860	0.6168 0.6888	0.6502 0.6806	0.6334	0.6810	Ave		0.6486				7.3		20.0			
Dibromofluoromethane (Surr)	0.1999 0.2141	0.1823 0.2207	0.2068 0.2287	0.1999	0.2160	Ave		0.2086				7.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2615 0.2704	0.2722 0.2747	0.2806 0.2736	0.2639	0.2736	Ave		0.2713				2.3		20.0			
Toluene-d8 (Surr)	1.1470 1.3779	1.1601 1.4464	1.2677 1.4804	1.2768	1.3377	Ave		1.3118				9.3		20.0			
4-Bromofluorobenzene (Surr)	0.4011 0.4722	0.4204 0.4877	0.4405 0.4950	0.4431	0.4613	Ave		0.4527				7.2		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-421991/16	UXM26860.D
Level 2	STD8260 240-421991/15	UXM26859.D
Level 3	STD8260 240-421991/14	UXM26858.D
Level 4	ICIS 240-421991/13	UXM26857.D
Level 5	STD8260 240-421991/12	UXM26856.D
Level 6	STD8260 240-421991/11	UXM26855.D
Level 7	STD8260 240-421991/10	UXM26854.D
Level 8	STD8260 240-421991/9	UXM26853.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	6209 1299072	14222 1636839	186473 2333584	378909	856984	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Chloromethane	FB	Ave	12876 1752476	25846 2278771	269765 3181822	533076	1165807	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Vinyl chloride	FB	Ave	11148 1832187	23385 2434603	284927 3486087	555021	1225521	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Butadiene	FB	Ave	9006 1485698	18446 1959404	228751 2795708	457671	944035	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Bromomethane	FB	Ave	8363 +++++	16435 +++++	166351 +++++	369322	692324	0.500 +++++	1.00 +++++	10.0 +++++	20.0	40.0
Chloroethane	FB	Ave	5128 1073464	10991 1484092	135998 1956368	285524	627215	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Dichlorofluoromethane	FB	Ave	11401 1940520	25286 2592802	283938 3730071	573954	1278640	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Trichlorofluoromethane	FB	Ave	8339 1609318	17457 2111763	225549 3090493	461245	1041884	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Ethyl ether	FB	Ave	5499 847894	10910 1118232	128941 1577304	254532	545176	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Acrolein	FB	Ave	4128 885898	9816 1227719	132340 1612242	261566	542094	2.50 300	5.00 400	50.0 600	100	200
1,1-Dichloroethene	FB	Ave	5057 973364	11172 1305080	132796 1944243	281449	622393	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	FB	Ave	2990 668708	6831 854906	87933 1330219	192239	419557	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Acetone	FB	Lin1	+++++ 170538	3893 232028	29149 299096	54082	106749	+++++ 120	2.00 160	20.0 240	40.0	80.0
Iodomethane	FB	Ave	7081 1060642	13802 1461435	141203 2099465	307382	678412	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Carbon disulfide	FB	Ave	20196 3321597	39434 4397072	460603 6466275	982917	2152751	0.500 60.0	1.00 80.0	10.0 120	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.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methyl acetate	FB	Ave	9781 1453416	21072 1965803	228550 2591262	442871	870610	1.00 120	2.00 160	20.0 240	40.0	80.0
3-Chloro-1-propene	FB	Ave	10542 1642808	21566 2196873	234322 3183827	493833	1067433	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Methylene Chloride	FB	Ave	8488 1076225	15898 1430997	160002 2047631	325250	702950	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
tert-Butyl alcohol	FB	Ave	5656 934748	12167 1267496	153312 1504958	280920	532474	5.00 600	10.0 800	100 1200	200	400
Acrylonitrile	FB	Ave	25007 4252789	55521 5844156	636512 7882835	1260011	2549669	5.00 600	10.0 800	100 1200	200	400
Methyl tert-butyl ether	FB	Ave	16649 3179984	36214 4365039	446137 6241126	913905	1950790	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	6404 1164809	14088 1588400	158305 2384594	337599	739203	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Hexane	FB	Ave	+++++ 1672095	16129 2067233	218659 3151311	470376	1049929	+++++ 60.0	1.00 80.0	10.0 120	20.0	40.0
Vinyl acetate	FB	Ave	8647 1878226	19037 2589078	249858 3658650	537718	1186697	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,1-Dichloroethane	FB	Ave	12038 1977813	24963 2663679	287077 3896221	597373	1298945	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
2-Butanone	FB	Ave	1093 250324	2746 343341	37145 451339	71652	149558	1.00 120	2.00 160	20.0 240	40.0	80.0
cis-1,2-Dichloroethene	FB	Ave	6667 1225037	15146 1663936	171607 2489865	360429	788685	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
2,2-Dichloropropane	FB	Ave	9110 1769552	19269 2409832	239704 3599622	516967	1131278	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Bromochloromethane	FB	Ave	2755 465636	6369 615064	68858 877440	143191	311441	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Tetrahydrofuran	FB	Ave	4071 582524	8089 787674	91352 998871	176772	347213	1.00 120	2.00 160	20.0 240	40.0	80.0
Chloroform	FB	Ave	10756 1823949	23575 2435839	266107 3563685	555610	1196241	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	8499 1623004	18562 2204465	225770 3254830	479962	1048174	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Cyclohexane	FB	Ave	9071 1914057	21498 2476812	263430 3752467	566604	1222639	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,1-Dichloropropene	FB	Ave	8623 1666151	17833 2279254	224985 3398356	486993	1057078	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Carbon tetrachloride	FB	Ave	6352 1374357	14095 1890096	179079 2859254	389736	869377	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Isobutyl alcohol	FB	Ave	3568 742860	8441 1000931	120441 1225080	218787	423724	12.5 1500	25.0 2000	250 3000	500	1000

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	27610 4806752	56142 6524764	670337 9579259	1411045	3077048	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,2-Dichloroethane	FB	Ave	8378 1444963	18816 1904912	218728 2729919	442445	936030	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
n-Heptane	FB	Lin1	+++++ 887543	46013 1097998	159898 1646430	290626	576120	+++++ 60.0	1.00 80.0	10.0 120	20.0	40.0
Trichloroethene	FB	Ave	5824 1095387	12333 1478067	150507 2197608	321162	699632	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Methylcyclohexane	FB	Ave	+++++ 2035731	19326 2635964	267746 4100882	577855	1276030	+++++ 60.0	1.00 80.0	10.0 120	20.0	40.0
1,2-Dichloropropane	FB	Ave	6203 1118236	12806 1513008	157852 2206157	331120	729025	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 253999	3128 344106	41066 433079	77995	150263	+++++ 1200	20.0 1600	200 2400	400	800
Dibromomethane	FB	Ave	3324 580598	7172 783122	84666 1120451	173510	374178	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Bromodichloromethane	FB	Ave	6856 1335961	14867 1816749	184594 2622158	389364	865553	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 1480485	14019 2032257	205473 2831112	423865	915850	+++++ 120	2.00 160	20.0 240	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	8241 1805754	18532 2445009	245629 3556700	524129	1157118	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
4-Methyl-2-pentanone	FB	Ave	8623 1679500	19517 2261207	262024 2882514	504957	1002876	1.00 120	2.00 160	20.0 240	40.0	80.0
Toluene	CBNZ d5	Ave	27149 4903534	58299 6696317	665847 9906374	1422888	3127905	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	7251 1631055	16823 2214037	221012 3199678	464012	1035186	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 1250422	11489 1695445	176153 2282404	364915	782437	+++++ 60.0	1.00 80.0	10.0 120	20.0	40.0
1,1,2-Trichloroethane	CBNZ d5	Ave	4539 848764	9967 1137317	124384 1626188	250772	543628	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	3816 800297	8917 1106654	105342 1679580	230813	502485	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,3-Dichloropropane	CBNZ d5	Ave	9281 1628342	19482 2212691	243260 3185284	492397	1048743	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
2-Hexanone	CBNZ d5	Ave	6048 1134173	14049 1531973	188592 1904477	355765	688648	1.00 120	2.00 160	20.0 240	40.0	80.0
Dibromochloromethane	CBNZ d5	Ave	3791 865270	8089 1177441	111664 1721060	242619	543756	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,2-Dibromoethane	CBNZ d5	Ave	4448 848824	9319 1140978	121232 1601136	249317	534677	0.500 60.0	1.00 80.0	10.0 120	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.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	16709 2901948	36120 3959469	403128 5946960	854457	1862711	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Lin1	4091 1009161	8717 1389148	123885 2150313	271482	623617	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Ethylbenzene	CBNZ d5	Ave	8957 1752370	19158 2448917	225927 3795493	493624	1103268	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
m-Xylene & p-Xylene	CBNZ d5	Ave	11297 2030926	23931 2775297	276718 4143133	601109	1302649	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
o-Xylene	CBNZ d5	Ave	10565 2025215	22897 2799340	268174 4251089	579075	1270589	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Styrene	CBNZ d5	Lin1	14136 3503679	32226 4870934	434329 7458705	970332	2217645	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Bromoform	CBNZ d5	Lin1	1861 497211	4417 682226	60303 979685	131517	306125	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Isopropylbenzene	CBNZ d5	Ave	26302 5164208	59161 7114150	680554 10626029	1496348	3260719	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	5487 1088097	13110 1446891	158963 2014527	320602	673583	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Bromobenzene	DCBd 4	Ave	5825 1053089	11907 1449819	143477 2182691	303538	666084	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 366560	3905 494516	50838 672478	105136	221697	+++++ 60.0	1.00 80.0	10.0 120	20.0	40.0
1,2,3-Trichloropropane	DCBd 4	Ave	2015 337197	4231 456930	51370 619285	100042	211302	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
n-Propylbenzene	DCBd 4	Ave	7860 1422713	16123 1967875	184908 2996780	416760	903283	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
2-Chlorotoluene	DCBd 4	Ave	6620 1132686	13207 1535072	155200 2340231	333044	726554	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	20754 4340715	46429 6009502	563506 8941278	1242933	2741772	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
4-Chlorotoluene	DCBd 4	Ave	6617 1198790	13910 1644410	159316 2454699	351390	761916	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
tert-Butylbenzene	DCBd 4	Ave	17645 3600264	40121 4966496	468544 7554707	1033299	2266401	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	21145 4283382	46506 5933833	563186 8899143	1225017	2709566	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
sec-Butylbenzene	DCBd 4	Ave	27466 5585135	61449 7671795	723288 11360160	1614482	3526626	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,3-Dichlorobenzene	DCBd 4	Ave	11487 2115089	24492 2943186	279483 4512966	607426	1338704	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
p-Isopropyltoluene	DCBd 4	Ave	20981 4794683	47888 6703808	597978 10217572	1344326	3002683	0.500 60.0	1.00 80.0	10.0 120	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.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	12504 2063570	27286 2823764	284086 4248863	599919	1321328	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
n-Butylbenzene	DCBd 4	Ave	19419 4466903	44370 6082067	575989 9062168	1286570	2828378	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,2-Dichlorobenzene	DCBd 4	Ave	11270 1907176	23014 2589371	261824 3901653	551497	1214048	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 176357	1760 240914	24279 325477	49913	106243	+++++ 60.0	1.00 80.0	10.0 120	20.0	40.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	5333 1019251	12862 1414909	138544 2120243	289309	648436	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 451748	4598 615938	57997 960562	127566	281394	+++++ 60.0	1.00 80.0	10.0 120	20.0	40.0
Naphthalene	DCBd 4	Ave	16318 3078170	38278 4211984	446407 5702477	901119	1884716	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5089 907712	11770 1233233	129117 1759325	266052	573661	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	5449 884807	10433 1229461	128640 1823535	260348	562291	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	7127 1117278	15574 1530681	174511 2181664	343590	712177	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
Toluene-d8 (Surr)	CBNZ d5	Ave	21964 3834316	46370 5463136	542768 8085442	1132360	2379801	0.500 60.0	1.00 80.0	10.0 120	20.0	40.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	7681 1314071	16804 1841973	188579 2703407	392982	820638	0.500 60.0	1.00 80.0	10.0 120	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.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 16:51 Calibration End Date: 02/07/2020 19:45 Calibration ID: 55391

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-421991/16	UXM26860.D
Level 2	STD8260 240-421991/15	UXM26859.D
Level 3	STD8260 240-421991/14	UXM26858.D
Level 4	ICIS 240-421991/13	UXM26857.D
Level 5	STD8260 240-421991/12	UXM26856.D
Level 6	STD8260 240-421991/11	UXM26855.D
Level 7	STD8260 240-421991/10	UXM26854.D
Level 8	STD8260 240-421991/9	UXM26853.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Acetone	+++++	-14.0						50				
n-Heptane	+++++	1.4						50				
1,1,1,2-Tetrachloroethane	35.7						50					
Styrene	31.5						50					
Bromoform	27.9						50					

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26853.D
Lims ID: std8260 L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 07-Feb-2020 16:51:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-009
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:39:45 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 08:45:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.929	-0.001	99	1329139	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	910247	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	430827	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	1823535	120.0	131.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	2181664	120.0	121.0	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	92	8085442	120.0	135.4	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	89	2703407	120.0	131.2	
9 Dichlorodifluoromethane	85	1.754	1.754	0.000	99	2333584	120.0	122.3	
10 Chloromethane	50	1.956	1.956	0.000	99	3181822	120.0	111.1	
11 Vinyl chloride	62	2.074	2.075	0.000	98	3486087	120.0	120.2	
12 Butadiene	54	2.122	2.122	0.000	91	2795708	120.0	120.3	
13 Bromomethane	94		2.418				ND	ND	U
14 Chloroethane	64	2.513	2.537	-0.024	98	1956368	120.0	128.6	
15 Dichlorofluoromethane	67	2.762	2.774	-0.012	98	3730071	120.0	123.0	
16 Trichlorofluoromethane	101	2.786	2.810	-0.024	98	3090493	120.0	129.0	
17 Ethyl ether	59	3.082	3.082	0.000	90	1577304	120.0	118.1	
18 Acrolein	56	3.225	3.225	0.000	99	1612242	600.0	613.5	
19 1,1-Dichloroethene	96	3.320	3.320	0.000	98	1944243	120.0	132.7	
20 1,1,2-Trichloro-1,2,2-trif	151	3.320	3.332	-0.012	94	1330219	120.0	137.9	
21 Acetone	58	3.367	3.355	0.012	100	299096	240.0	226.1	
23 Iodomethane	142	3.462	3.474	-0.012	98	2099465	120.0	125.9	
24 Carbon disulfide	76	3.533	3.533	0.000	99	6466275	120.0	126.4	
27 Methyl acetate	43	3.652	3.652	0.000	97	2591262	240.0	222.9	
26 3-Chloro-1-propene	41	3.663	3.675	-0.012	91	3183827	120.0	122.8	
28 Methylene Chloride	84	3.794	3.794	0.000	91	2047631	120.0	115.2	
29 2-Methyl-2-propanol	59	3.877	3.877	0.000	99	1504958	1200.0	1047.6	
30 Acrylonitrile	53	4.007	4.007	0.000	100	7882835	1200.0	1197.4	
31 Methyl tert-butyl ether	73	4.031	4.031	0.000	94	6241126	120.0	130.7	
32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	99	2384594	120.0	133.8	
33 Hexane	57	4.280	4.292	-0.012	90	3151311	120.0	129.2	
35 Vinyl acetate	43	4.422	4.422	0.000	97	3658650	120.0	133.5	

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	4.434	4.434	0.000	96	3896221	120.0	125.3	
40 2-Butanone (MEK)	72	4.920	4.921	-0.001	99	451339	240.0	247.5	
41 2,2-Dichloropropane	77	4.944	4.944	0.000	87	3599622	120.0	135.4	
39 cis-1,2-Dichloroethene	96	4.932	4.944	-0.012	83	2489865	120.0	131.9	
45 Chlorobromomethane	128	5.146	5.146	0.000	98	877440	120.0	119.2	
46 Tetrahydrofuran	42	5.146	5.146	0.000	85	998871	240.0	215.8	
47 Chloroform	83	5.217	5.229	-0.012	94	3563685	120.0	124.5	
48 1,1,1-Trichloroethane	97	5.371	5.371	0.000	99	3254830	120.0	132.1	
49 Cyclohexane	56	5.430	5.430	0.000	87	3752467	120.0	132.3	
50 1,1-Dichloropropene	75	5.513	5.513	0.000	97	3398356	120.0	136.0	
51 Carbon tetrachloride	117	5.513	5.513	0.000	84	2859254	120.0	141.6	
52 Isobutyl alcohol	41	5.561	5.561	0.000	94	1225080	3000.0	2801.7	
54 Benzene	78	5.679	5.679	0.000	95	9579259	120.0	130.0	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	98	2729919	120.0	120.8	
56 n-Heptane	57	5.905	5.917	-0.012	91	1646430	120.0	121.4	
58 Trichloroethene	130	6.249	6.249	0.000	98	2197608	120.0	132.8	
60 Methylcyclohexane	83	6.450	6.450	0.000	90	4100882	120.0	135.7	
61 1,2-Dichloropropane	63	6.474	6.474	0.000	96	2206157	120.0	129.0	
64 1,4-Dioxane	88	6.533	6.521	0.012	95	433079	2400.0	2193.8	
63 Dibromomethane	93	6.545	6.545	0.000	96	1120451	120.0	124.7	
65 Dichlorobromomethane	83	6.699	6.699	0.000	99	2622158	120.0	130.5	
67 2-Chloroethyl vinyl ether	63	6.925	6.925	0.000	92	2831112	240.0	255.9	
68 cis-1,3-Dichloropropene	75	7.079	7.079	0.000	95	3556700	120.0	134.2	
69 4-Methyl-2-pentanone (MIBK	43	7.197	7.197	0.000	95	2882514	240.0	229.4	
70 Toluene	91	7.387	7.375	0.012	99	9906374	120.0	132.5	
71 trans-1,3-Dichloropropene	75	7.577	7.577	0.000	93	3199678	120.0	134.6	
72 Ethyl methacrylate	69	7.612	7.612	0.000	88	2282404	120.0	122.5	
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	91	1626188	120.0	126.0	
75 Tetrachloroethene	164	7.850	7.850	0.000	97	1679580	120.0	140.6	
74 1,3-Dichloropropane	76	7.909	7.909	0.000	89	3185284	120.0	126.1	
76 2-Hexanone	43	7.944	7.944	0.000	93	1904477	240.0	218.9	
78 Chlorodibromomethane	129	8.110	8.110	0.000	90	1721060	120.0	138.9	
80 Ethylene Dibromide	107	8.241	8.241	0.000	99	1601136	120.0	126.2	
82 Chlorobenzene	112	8.691	8.692	-0.001	94	5946960	120.0	132.2	
83 1,1,1,2-Tetrachloroethane	131	8.763	8.763	0.000	96	2150313	120.0	127.8	
84 Ethylbenzene	106	8.775	8.775	-0.001	98	3795493	120.0	144.3	
85 m-Xylene & p-Xylene	106	8.893	8.893	0.000	97	4143133	120.0	133.2	
86 o-Xylene	106	9.261	9.261	0.000	97	4251089	120.0	139.3	
87 Styrene	104	9.284	9.284	0.000	95	7458705	120.0	126.9	
88 Bromoform	173	9.462	9.462	0.000	97	979685	120.0	122.1	
89 Isopropylbenzene	105	9.616	9.617	-0.001	95	10626029	120.0	136.9	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	94	2014527	120.0	123.6	
93 Bromobenzene	156	9.937	9.937	0.000	95	2182691	120.0	136.4	
94 trans-1,4-Dichloro-2-buten	53	9.948	9.949	-0.001	82	672478	120.0	122.3	
95 1,2,3-Trichloropropane	110	9.972	9.972	0.000	83	619285	120.0	118.7	
96 N-Propylbenzene	120	10.020	10.020	0.000	98	2996780	120.0	138.7	
97 2-Chlorotoluene	126	10.115	10.115	-0.001	96	2340231	120.0	134.4	
99 1,3,5-Trimethylbenzene	105	10.198	10.198	0.000	94	8941278	120.0	139.3	
100 4-Chlorotoluene	126	10.233	10.233	0.000	97	2454699	120.0	134.8	
102 tert-Butylbenzene	119	10.506	10.506	0.000	93	7554707	120.0	140.7	
104 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	97	8899143	120.0	139.5	
105 sec-Butylbenzene	105	10.731	10.731	0.000	94	11360160	120.0	137.1	

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	10.862	10.862	0.000	98	4512966	120.0	140.1	
107 4-Isopropyltoluene	119	10.885	10.885	0.000	97	10217572	120.0	146.6	
108 1,4-Dichlorobenzene	146	10.956	10.957	-0.001	94	4248863	120.0	131.6	
111 n-Butylbenzene	91	11.289	11.289	-0.001	97	9062168	120.0	140.0	
112 1,2-Dichlorobenzene	146	11.324	11.324	0.000	97	3901653	120.0	133.0	
113 1,2-Dibromo-3-Chloropropan	157	12.107	12.107	0.000	81	325477	120.0	124.0	
115 1,2,4-Trichlorobenzene	180	12.937	12.937	0.000	94	2120243	120.0	136.0	
116 Hexachlorobutadiene	225	13.091	13.091	0.000	98	960562	120.0	140.1	
117 Naphthalene	128	13.233	13.233	0.000	97	5702477	120.0	122.5	
118 1,2,3-Trichlorobenzene	180	13.482	13.482	0.000	95	1759325	120.0	125.9	
S 134 Trihalomethanes, Total	1				0		480.0	516.0	
S 158 Total BTEX	1				0		600.0	679.2	
S 131 1,2-Dichloroethene, Total	96				0			265.7	
S 132 1,3-Dichloropropene, Total	75				0			268.8	
S 133 Xylenes, Total	106				0		240.0	272.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vmrgas_00326	Amount Added:	96.00	Units: uL
vmarolistdw_00332	Amount Added:	96.00	Units: uL
VM50SS_00390	Amount Added:	96.00	Units: uL
vmrprimw_00372	Amount Added:	96.00	Units: uL
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL

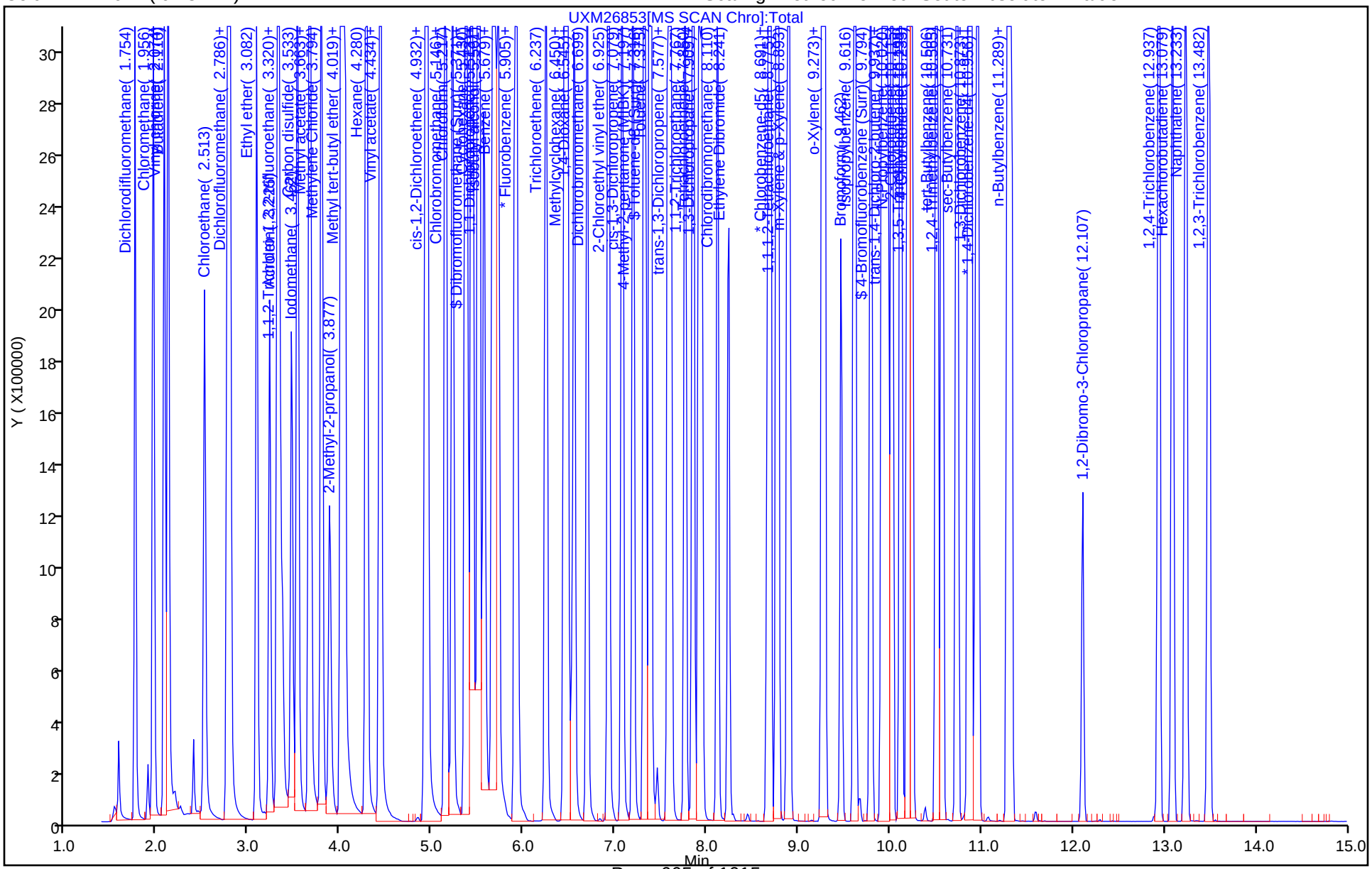
Report Date: 10-Feb-2020 13:39:47 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26853.D

Injection Date:	07-Feb-2020 16:51:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L8			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



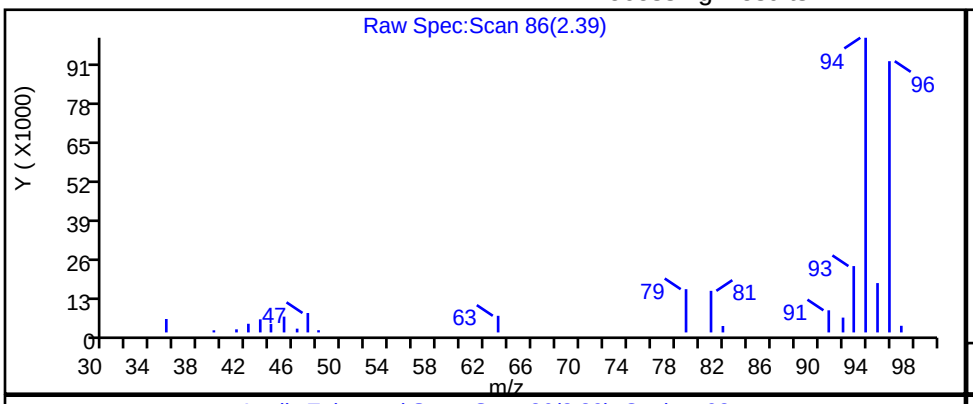
User Disabled Compound Report

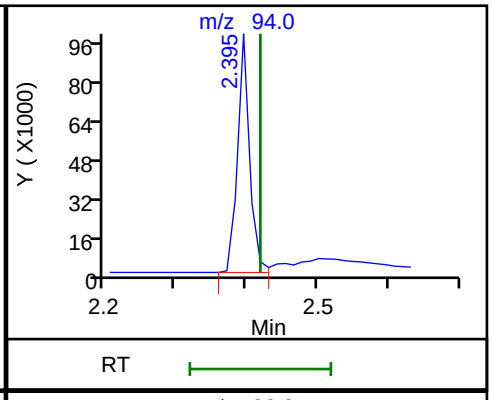
Eurofins TestAmerica, Canton

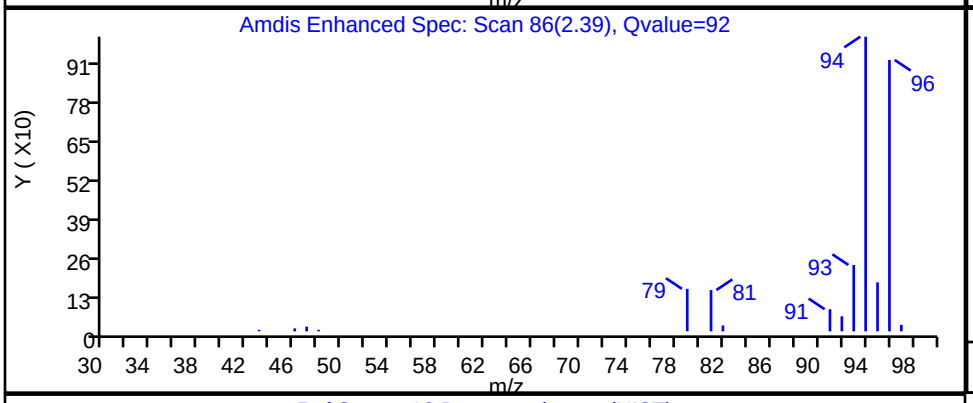
Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26853.D
Injection Date: 07-Feb-2020 16:51:30 Instrument ID: A3UX16
Lims ID: std8260 L8
Client ID:
Operator ID: 001765 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

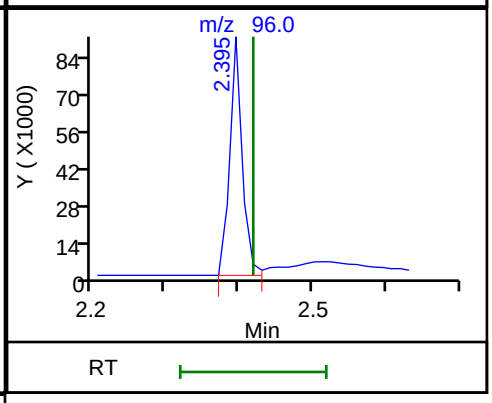
13 Bromomethane, CAS: 74-83-9

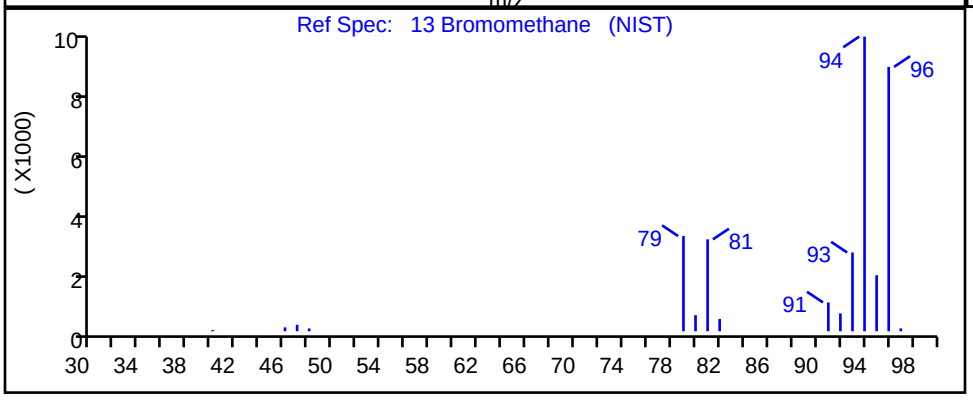
Processing Results











RT	Mass	Response	Amount
2.39	94.00	117565	9.217880
2.39	96.00	108096	

Reviewer: bosworthh, 10-Feb-2020 08:45:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26854.D
Lims ID: std8260 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 07-Feb-2020 17:16:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-010
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:39:53 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 08:46:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.929	0.000	95	1392818	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	90	944280	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	447613	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	1229461	80.0	84.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	99	1530681	80.0	81.0	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	92	5463136	80.0	88.2	
$ 7 4-Bromofluorobenzene (Surr	95	9.783	9.794	-0.011	85	1841973	80.0	86.2	
9 Dichlorodifluoromethane	85	1.754	1.754	0.000	99	1636839	80.0	81.9	
10 Chloromethane	50	1.956	1.956	0.000	99	2278771	80.0	75.9	
11 Vinyl chloride	62	2.075	2.075	0.001	98	2434603	80.0	80.1	
12 Butadiene	54	2.110	2.122	-0.012	91	1959404	80.0	80.5	
13 Bromomethane	94		2.418				ND	ND	U
14 Chloroethane	64	2.525	2.537	-0.012	98	1484092	80.0	93.1	
15 Dichlorofluoromethane	67	2.762	2.774	-0.012	97	2592802	80.0	81.6	
16 Trichlorofluoromethane	101	2.798	2.810	-0.012	98	2111763	80.0	84.1	
17 Ethyl ether	59	3.083	3.082	0.001	90	1118232	80.0	79.9	
18 Acrolein	56	3.225	3.225	0.000	99	1227719	400.0	445.8	
19 1,1-Dichloroethene	96	3.320	3.320	0.000	98	1305080	80.0	85.0	
20 1,1,2-Trichloro-1,2,2-trif	151	3.332	3.332	0.000	93	854906	80.0	84.6	
21 Acetone	58	3.367	3.355	0.012	100	232028	160.0	166.9	
23 Iodomethane	142	3.462	3.474	-0.012	98	1461435	80.0	83.6	
24 Carbon disulfide	76	3.533	3.533	0.000	99	4397072	80.0	82.0	
27 Methyl acetate	43	3.652	3.652	0.000	97	1965803	160.0	161.4	
26 3-Chloro-1-propene	41	3.664	3.675	-0.011	91	2196873	80.0	80.9	
28 Methylene Chloride	84	3.794	3.794	0.000	92	1430997	80.0	76.8	
29 2-Methyl-2-propanol	59	3.877	3.877	0.000	99	1267496	800.0	841.9	
30 Acrylonitrile	53	4.008	4.007	0.001	100	5844156	800.0	847.1	
31 Methyl tert-butyl ether	73	4.031	4.031	0.000	94	4365039	80.0	87.2	
32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	99	1588400	80.0	85.1	
33 Hexane	57	4.280	4.292	-0.012	90	2067233	80.0	80.9	
35 Vinyl acetate	43	4.423	4.422	0.001	97	2589078	80.0	90.2	

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	4.434	4.434	0.000	96	2663679	80.0	81.8	
40 2-Butanone (MEK)	72	4.921	4.921	0.000	99	343341	160.0	179.6	
41 2,2-Dichloropropane	77	4.944	4.944	0.000	90	2409832	80.0	86.5	
39 cis-1,2-Dichloroethene	96	4.932	4.944	-0.012	83	1663936	80.0	84.1	
45 Chlorobromomethane	128	5.146	5.146	0.000	98	615064	80.0	79.8	
46 Tetrahydrofuran	42	5.146	5.146	0.000	85	787674	160.0	162.4	
47 Chloroform	83	5.217	5.229	-0.012	94	2435839	80.0	81.2	
48 1,1,1-Trichloroethane	97	5.371	5.371	0.000	98	2204465	80.0	85.3	
49 Cyclohexane	56	5.431	5.430	0.001	88	2476812	80.0	83.3	
50 1,1-Dichloropropene	75	5.514	5.513	0.001	97	2279254	80.0	87.0	
51 Carbon tetrachloride	117	5.514	5.513	0.001	83	1890096	80.0	89.3	
52 Isobutyl alcohol	41	5.561	5.561	0.000	94	1000931	2000.0	2184.4	
54 Benzene	78	5.680	5.679	0.001	96	6524764	80.0	84.5	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	98	1904912	80.0	80.4	
56 n-Heptane	57	5.905	5.917	-0.012	91	1097998	80.0	76.2	
58 Trichloroethene	130	6.249	6.249	0.000	98	1478067	80.0	85.2	
60 Methylcyclohexane	83	6.450	6.450	0.000	90	2635964	80.0	83.3	
61 1,2-Dichloropropane	63	6.474	6.474	0.000	96	1513008	80.0	84.4	
64 1,4-Dioxane	88	6.533	6.521	0.012	97	344106	1600.0	1663.4	
63 Dibromomethane	93	6.545	6.545	0.000	95	783122	80.0	83.1	
65 Dichlorobromomethane	83	6.688	6.699	-0.011	99	1816749	80.0	86.3	
67 2-Chloroethyl vinyl ether	63	6.925	6.925	0.000	92	2032257	160.0	175.3	
68 cis-1,3-Dichloropropene	75	7.079	7.079	0.000	95	2445009	80.0	88.0	
69 4-Methyl-2-pentanone (MIBK	43	7.197	7.197	0.000	96	2261207	160.0	171.7	
70 Toluene	91	7.375	7.375	0.000	98	6696317	80.0	86.3	
71 trans-1,3-Dichloropropene	75	7.577	7.577	0.000	94	2214037	80.0	89.8	
72 Ethyl methacrylate	69	7.612	7.612	0.000	88	1695445	80.0	87.7	
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	91	1137317	80.0	84.9	
75 Tetrachloroethene	164	7.850	7.850	0.000	96	1106654	80.0	89.3	
74 1,3-Dichloropropane	76	7.909	7.909	0.000	90	2212691	80.0	84.5	
76 2-Hexanone	43	7.945	7.944	0.001	94	1531973	160.0	169.8	
78 Chlorodibromomethane	129	8.111	8.110	0.001	90	1177441	80.0	91.6	
80 Ethylene Dibromide	107	8.241	8.241	0.000	98	1140978	80.0	86.7	
82 Chlorobenzene	112	8.692	8.692	0.000	94	3959469	80.0	84.8	
83 1,1,1,2-Tetrachloroethane	131	8.763	8.763	0.000	95	1389148	80.0	79.7	
84 Ethylbenzene	106	8.775	8.775	0.000	98	2448917	80.0	89.7	
85 m-Xylene & p-Xylene	106	8.893	8.893	0.000	96	2775297	80.0	86.0	
86 o-Xylene	106	9.261	9.261	0.000	97	2799340	80.0	88.4	
87 Styrene	104	9.285	9.284	0.001	95	4870934	80.0	80.0	
88 Bromoform	173	9.462	9.462	0.000	95	682226	80.0	82.1	
89 Isopropylbenzene	105	9.617	9.617	0.000	95	7114150	80.0	88.3	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	94	1446891	80.0	85.4	
93 Bromobenzene	156	9.937	9.937	0.000	96	1449819	80.0	87.2	
94 trans-1,4-Dichloro-2-buten	53	9.949	9.949	0.000	88	494516	80.0	86.5	
95 1,2,3-Trichloropropane	110	9.972	9.972	0.000	82	456930	80.0	84.3	
96 N-Propylbenzene	120	10.020	10.020	0.000	99	1967875	80.0	87.6	
97 2-Chlorotoluene	126	10.115	10.115	0.000	95	1535072	80.0	84.9	
99 1,3,5-Trimethylbenzene	105	10.198	10.198	0.000	93	6009502	80.0	90.1	
100 4-Chlorotoluene	126	10.233	10.233	0.000	98	1644410	80.0	86.9	
102 tert-Butylbenzene	119	10.506	10.506	0.000	93	4966496	80.0	89.0	
104 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	97	5933833	80.0	89.5	
105 sec-Butylbenzene	105	10.731	10.731	0.000	94	7671795	80.0	89.1	

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	10.862	10.862	0.000	98	2943186	80.0	88.0	
107 4-Isopropyltoluene	119	10.885	10.885	0.000	97	6703808	80.0	92.6	
108 1,4-Dichlorobenzene	146	10.957	10.957	0.000	96	2823764	80.0	84.2	
111 n-Butylbenzene	91	11.289	11.289	0.000	98	6082067	80.0	90.5	
112 1,2-Dichlorobenzene	146	11.324	11.324	0.000	97	2589371	80.0	84.9	
113 1,2-Dibromo-3-Chloropropan	157	12.107	12.107	0.000	80	240914	80.0	88.3	
115 1,2,4-Trichlorobenzene	180	12.937	12.937	0.000	94	1414909	80.0	87.4	
116 Hexachlorobutadiene	225	13.091	13.091	0.000	97	615938	80.0	86.5	
117 Naphthalene	128	13.233	13.233	0.000	97	4211984	80.0	87.1	
118 1,2,3-Trichlorobenzene	180	13.482	13.482	0.000	95	1233233	80.0	85.0	
S 134 Trihalomethanes, Total	1				0		320.0	341.2	
S 158 Total BTEX	1				0		400.0	434.9	
S 131 1,2-Dichloroethene, Total	96				0			169.2	
S 132 1,3-Dichloropropene, Total	75				0			177.8	
S 133 Xylenes, Total	106				0		160.0	174.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vmrgas_00326	Amount Added:	64.00	Units: uL
vmarolistdw_00332	Amount Added:	64.00	Units: uL
vmrprimw_00372	Amount Added:	64.00	Units: uL
VM50SS_00390	Amount Added:	64.00	Units: uL
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL

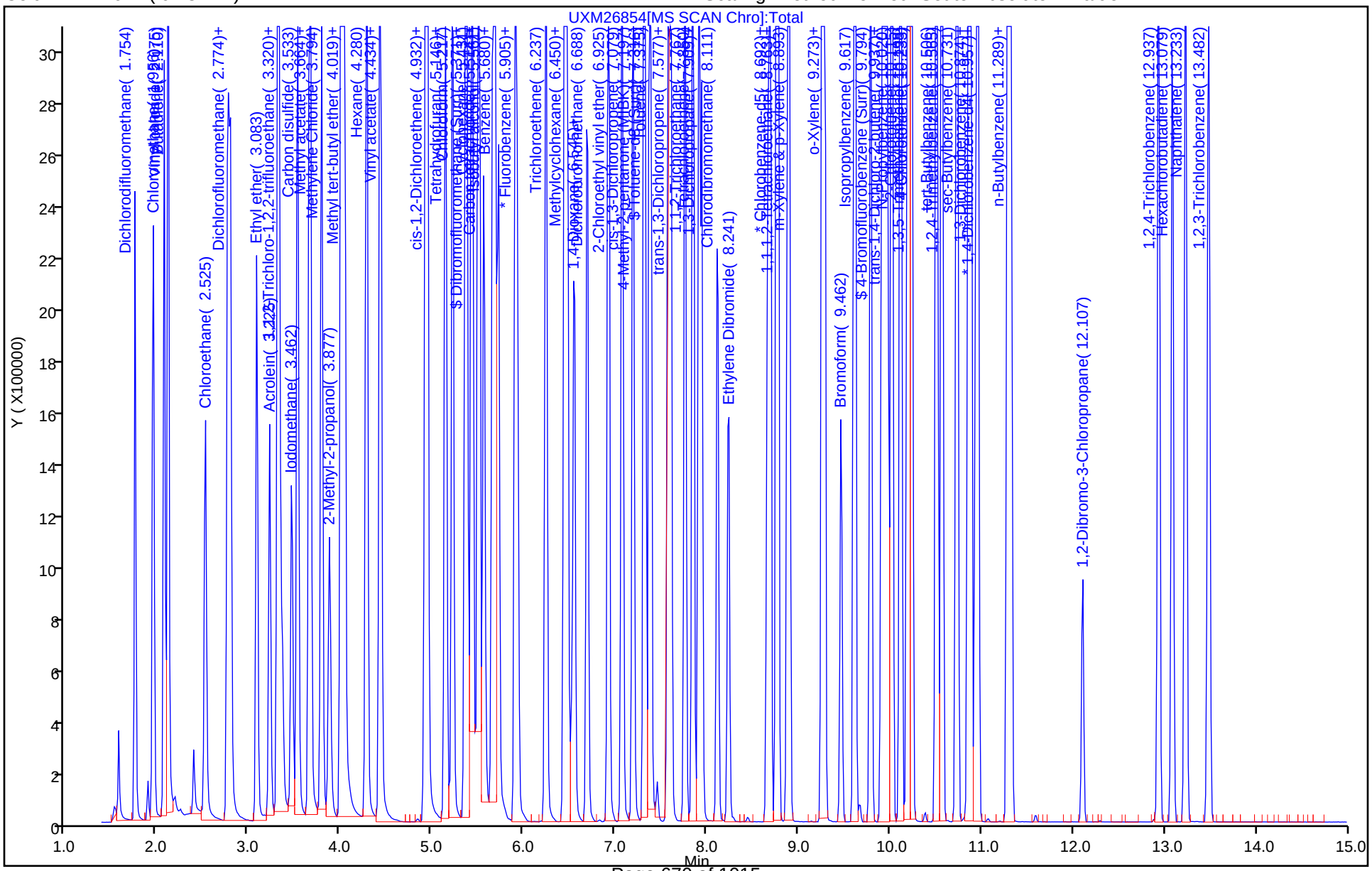
Report Date: 10-Feb-2020 13:39:55 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26854.D

Injection Date:	07-Feb-2020 17:16:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L7			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



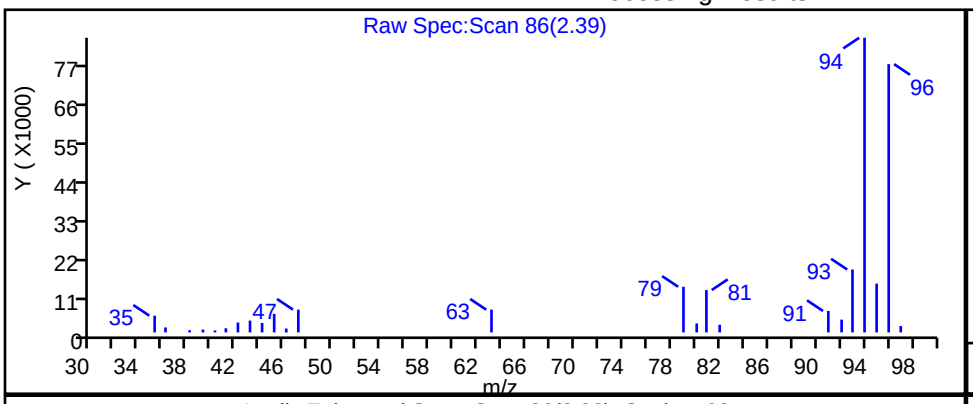
User Disabled Compound Report

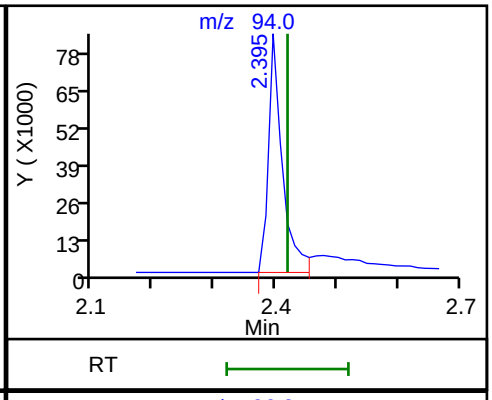
Eurofins TestAmerica, Canton

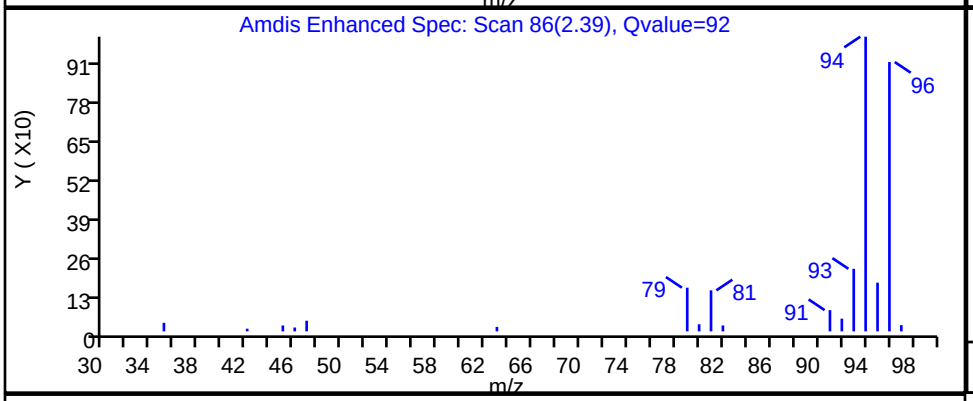
Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26854.D				
Injection Date:	07-Feb-2020 17:16:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L7				
Client ID:					
Operator ID:	001765	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

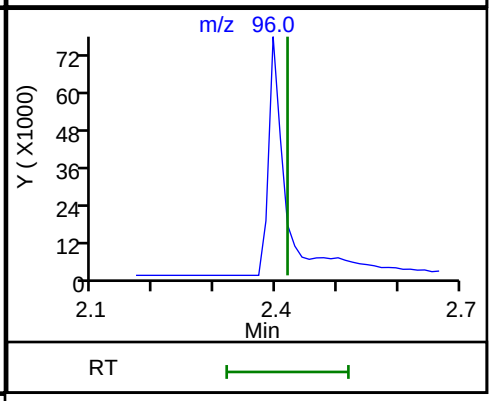
13 Bromomethane, CAS: 74-83-9

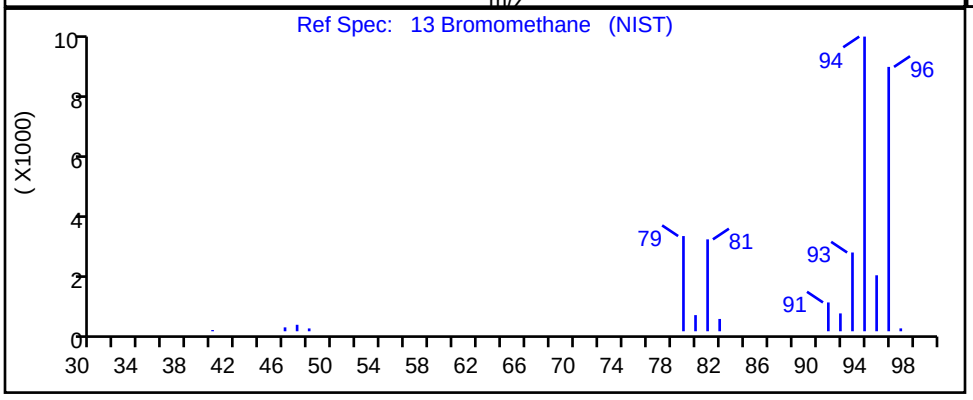
Processing Results











RT	Mass	Response	Amount
2.39	94.00	134315	8.878750
2.39	96.00	169841	

Reviewer: bosworthh, 10-Feb-2020 08:46:30

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

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26855.D
Lims ID: std8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 07-Feb-2020 17:41:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-011
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:01 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 08:46:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.929	0.000	99	1377250	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	89	927606	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	441059	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	884807	60.0	61.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	1117278	60.0	59.8	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	3834316	60.0	63.0	
$ 7 4-Bromofluorobenzene (Surr	95	9.795	9.794	0.001	88	1314071	60.0	62.6	
9 Dichlorodifluoromethane	85	1.754	1.754	0.000	99	1299072	60.0	65.7	
10 Chloromethane	50	1.956	1.956	0.000	99	1752476	60.0	59.1	
11 Vinyl chloride	62	2.075	2.075	0.001	98	1832187	60.0	61.0	
12 Butadiene	54	2.110	2.122	-0.012	91	1485698	60.0	61.7	
13 Bromomethane	94		2.418				ND	ND	U
14 Chloroethane	64	2.525	2.537	-0.012	99	1073464	60.0	68.1	
15 Dichlorofluoromethane	67	2.774	2.774	0.000	97	1940520	60.0	61.7	
16 Trichlorofluoromethane	101	2.798	2.810	-0.012	98	1609318	60.0	64.8	
17 Ethyl ether	59	3.083	3.082	0.001	90	847894	60.0	61.2	
18 Acrolein	56	3.225	3.225	0.000	99	885898	300.0	325.3	
19 1,1-Dichloroethene	96	3.320	3.320	0.000	98	973364	60.0	64.1	
20 1,1,2-Trichloro-1,2,2-trif	151	3.332	3.332	0.000	94	668708	60.0	66.9	
21 Acetone	58	3.367	3.355	0.012	100	170538	120.0	123.6	
23 Iodomethane	142	3.462	3.474	-0.012	99	1060642	60.0	61.4	
24 Carbon disulfide	76	3.533	3.533	0.000	99	3321597	60.0	62.7	
27 Methyl acetate	43	3.652	3.652	0.000	97	1453416	120.0	120.7	
26 3-Chloro-1-propene	41	3.664	3.675	-0.011	91	1642808	60.0	61.2	
28 Methylene Chloride	84	3.794	3.794	0.000	92	1076225	60.0	58.4	
29 2-Methyl-2-propanol	59	3.877	3.877	0.000	99	934748	600.0	627.9	
30 Acrylonitrile	53	4.008	4.007	0.001	100	4252789	600.0	623.4	
31 Methyl tert-butyl ether	73	4.031	4.031	0.000	94	3179984	60.0	64.3	
32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	99	1164809	60.0	63.1	
33 Hexane	57	4.280	4.292	-0.012	91	1672095	60.0	66.2	
35 Vinyl acetate	43	4.423	4.422	0.001	97	1878226	60.0	66.1	

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	4.435	4.434	0.001	96	1977813	60.0	61.4	
40 2-Butanone (MEK)	72	4.921	4.921	0.000	99	250324	120.0	132.5	
41 2,2-Dichloropropane	77	4.944	4.944	0.000	88	1769552	60.0	64.2	
39 cis-1,2-Dichloroethene	96	4.933	4.944	-0.011	82	1225037	60.0	62.6	
45 Chlorobromomethane	128	5.146	5.146	0.000	98	465636	60.0	61.1	
46 Tetrahydrofuran	42	5.146	5.146	0.000	86	582524	120.0	121.5	
47 Chloroform	83	5.229	5.229	0.000	94	1823949	60.0	61.5	
48 1,1,1-Trichloroethane	97	5.371	5.371	0.000	99	1623004	60.0	63.5	
49 Cyclohexane	56	5.431	5.430	0.001	88	1914057	60.0	65.1	
50 1,1-Dichloropropene	75	5.514	5.513	0.001	96	1666151	60.0	64.3	
51 Carbon tetrachloride	117	5.514	5.513	0.001	83	1374357	60.0	65.7	
52 Isobutyl alcohol	41	5.561	5.561	0.000	95	742860	1500.0	1639.5	
54 Benzene	78	5.680	5.679	0.001	96	4806752	60.0	62.9	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	98	1444963	60.0	61.7	
56 n-Heptane	57	5.905	5.917	-0.012	91	887543	60.0	61.7	
58 Trichloroethene	130	6.249	6.249	0.000	98	1095387	60.0	63.9	
60 Methylcyclohexane	83	6.450	6.450	0.000	90	2035731	60.0	65.0	
61 1,2-Dichloropropane	63	6.474	6.474	0.000	95	1118236	60.0	63.1	
64 1,4-Dioxane	88	6.522	6.521	0.001	92	253999	1200.0	1241.7	
63 Dibromomethane	93	6.545	6.545	0.000	95	580598	60.0	62.3	
65 Dichlorobromomethane	83	6.688	6.699	-0.011	99	1335961	60.0	64.2	
67 2-Chloroethyl vinyl ether	63	6.925	6.925	0.000	92	1480485	120.0	129.1	
68 cis-1,3-Dichloropropene	75	7.079	7.079	0.000	95	1805754	60.0	65.8	
69 4-Methyl-2-pentanone (MIBK	43	7.198	7.197	0.001	96	1679500	120.0	129.0	
70 Toluene	91	7.375	7.375	0.000	98	4903534	60.0	64.4	
71 trans-1,3-Dichloropropene	75	7.577	7.577	0.000	93	1631055	60.0	67.3	
72 Ethyl methacrylate	69	7.613	7.612	0.001	88	1250422	60.0	65.8	
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	91	848764	60.0	64.5	
75 Tetrachloroethene	164	7.850	7.850	0.000	95	800297	60.0	65.8	
74 1,3-Dichloropropane	76	7.909	7.909	0.000	90	1628342	60.0	63.3	
76 2-Hexanone	43	7.945	7.944	0.001	94	1134173	120.0	127.9	
78 Chlorodibromomethane	129	8.111	8.110	0.001	90	865270	60.0	68.5	
80 Ethylene Dibromide	107	8.241	8.241	0.000	98	848824	60.0	65.6	
82 Chlorobenzene	112	8.692	8.692	0.000	94	2901948	60.0	63.3	
83 1,1,1,2-Tetrachloroethane	131	8.763	8.763	0.000	94	1009161	60.0	59.1	
84 Ethylbenzene	106	8.775	8.775	0.000	98	1752370	60.0	65.4	
85 m-Xylene & p-Xylene	106	8.893	8.893	0.000	96	2030926	60.0	64.1	
86 o-Xylene	106	9.261	9.261	0.000	98	2025215	60.0	65.1	
87 Styrene	104	9.285	9.284	0.001	95	3503679	60.0	58.7	
88 Bromoform	173	9.463	9.462	0.001	95	497211	60.0	61.0	
89 Isopropylbenzene	105	9.617	9.617	0.000	95	5164208	60.0	65.3	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	94	1088097	60.0	65.2	
93 Bromobenzene	156	9.937	9.937	0.000	96	1053089	60.0	64.3	
94 trans-1,4-Dichloro-2-buten	53	9.949	9.949	0.000	90	366560	60.0	65.1	
95 1,2,3-Trichloropropane	110	9.972	9.972	0.000	82	337197	60.0	63.1	
96 N-Propylbenzene	120	10.020	10.020	0.000	99	1422713	60.0	64.3	
97 2-Chlorotoluene	126	10.115	10.115	0.000	96	1132686	60.0	63.5	
99 1,3,5-Trimethylbenzene	105	10.198	10.198	0.000	93	4340715	60.0	66.1	
100 4-Chlorotoluene	126	10.233	10.233	0.000	98	1198790	60.0	64.3	
102 tert-Butylbenzene	119	10.506	10.506	0.000	93	3600264	60.0	65.5	
104 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	97	4283382	60.0	65.6	
105 sec-Butylbenzene	105	10.731	10.731	0.000	94	5585135	60.0	65.8	

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	10.862	10.862	0.000	98	2115089	60.0	64.2	
107 4-Isopropyltoluene	119	10.874	10.885	-0.011	97	4794683	60.0	67.2	
108 1,4-Dichlorobenzene	146	10.957	10.957	0.000	93	2063570	60.0	62.4	
111 n-Butylbenzene	91	11.289	11.289	0.000	98	4466903	60.0	67.4	
112 1,2-Dichlorobenzene	146	11.324	11.324	0.000	97	1907176	60.0	63.5	
113 1,2-Dibromo-3-Chloropropan	157	12.107	12.107	0.000	80	176357	60.0	65.6	
115 1,2,4-Trichlorobenzene	180	12.937	12.937	0.000	94	1019251	60.0	63.9	
116 Hexachlorobutadiene	225	13.079	13.091	-0.012	97	451748	60.0	64.4	
117 Naphthalene	128	13.234	13.233	0.001	97	3078170	60.0	64.6	
118 1,2,3-Trichlorobenzene	180	13.483	13.482	0.001	95	907712	60.0	63.5	
S 134 Trihalomethanes, Total	1				0		240.0	255.2	
S 158 Total BTEX	1				0		300.0	321.8	
S 131 1,2-Dichloroethene, Total	96				0			125.7	
S 132 1,3-Dichloropropene, Total	75				0			133.1	
S 133 Xylenes, Total	106				0		120.0	129.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vmrgas_00326	Amount Added:	48.00	Units: uL
vmarolistdw_00332	Amount Added:	48.00	Units: uL
vmrprimw_00372	Amount Added:	48.00	Units: uL
VM50SS_00390	Amount Added:	48.00	Units: uL
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL

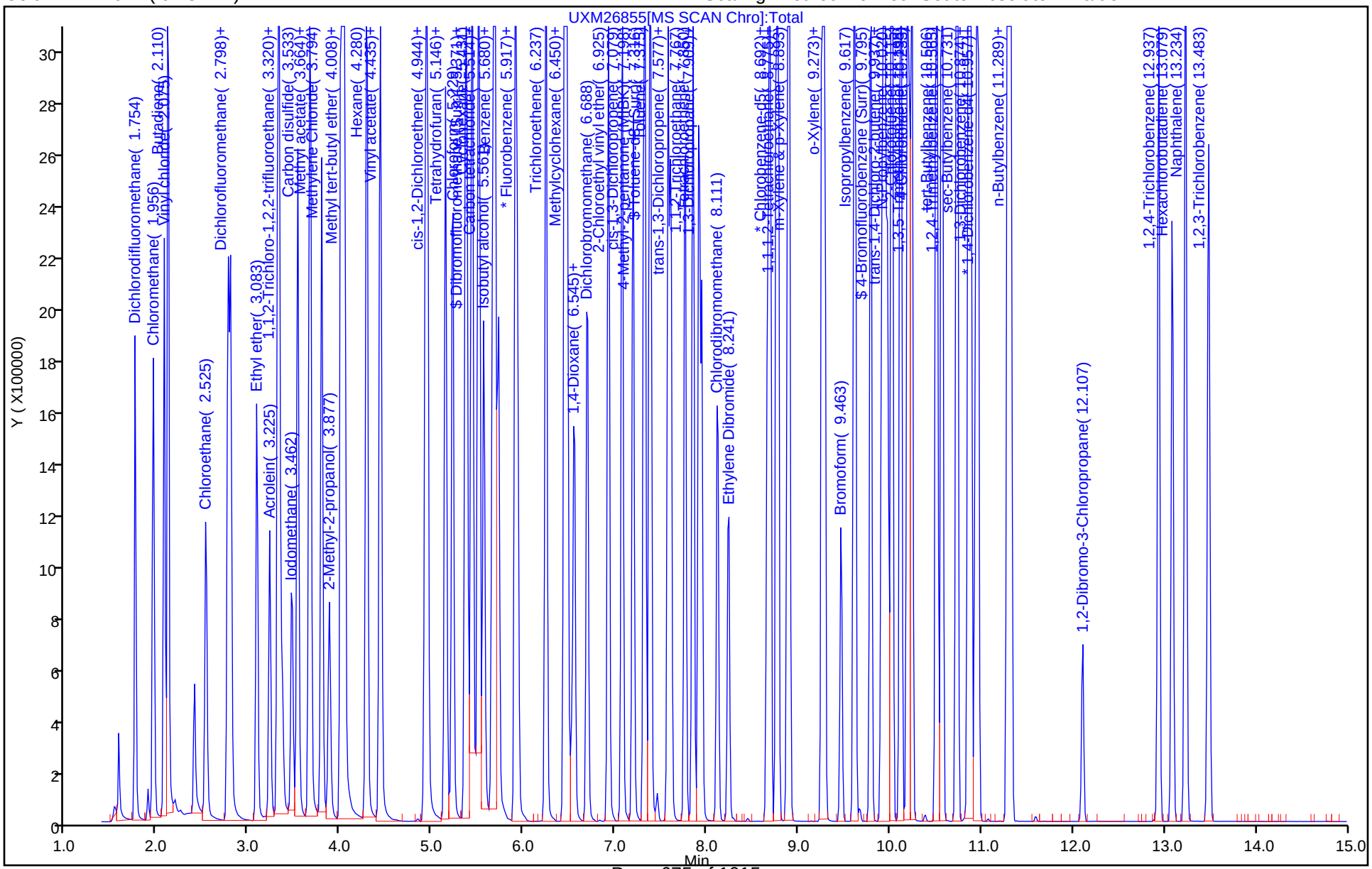
Report Date: 10-Feb-2020 13:40:04 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26855.D

Injection Date:	07-Feb-2020 17:41:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L6			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



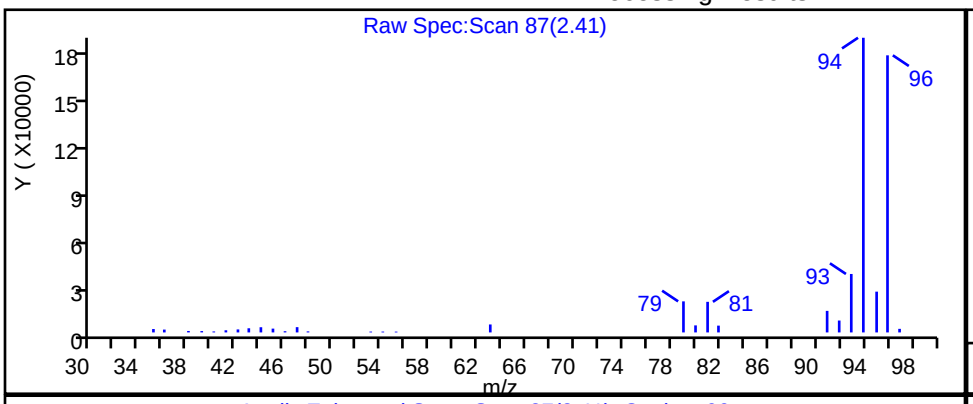
User Disabled Compound Report

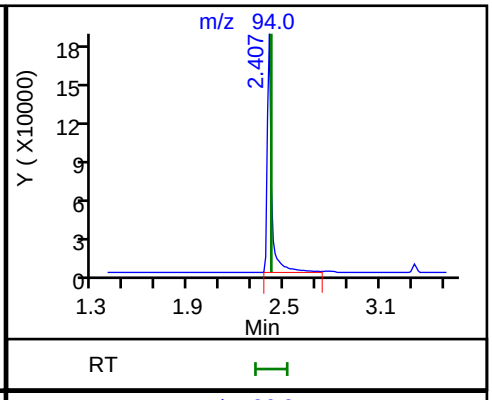
Eurofins TestAmerica, Canton

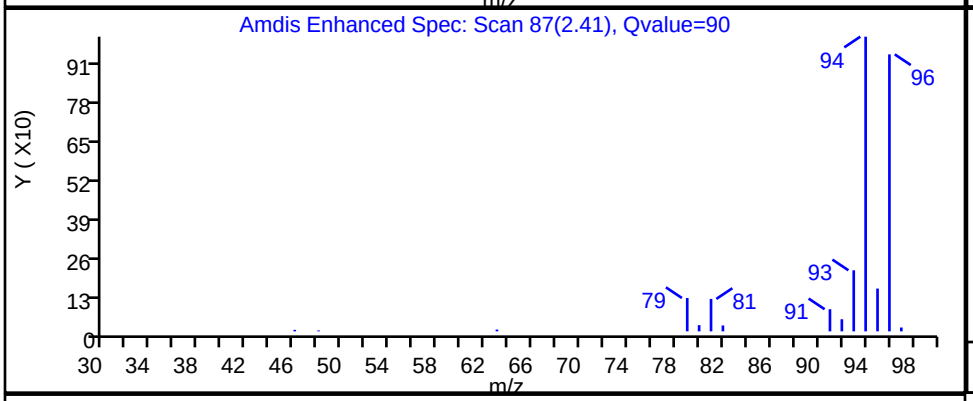
Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26855.D
Injection Date: 07-Feb-2020 17:41:30 Instrument ID: A3UX16
Lims ID: std8260 L6
Client ID:
Operator ID: 001765 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

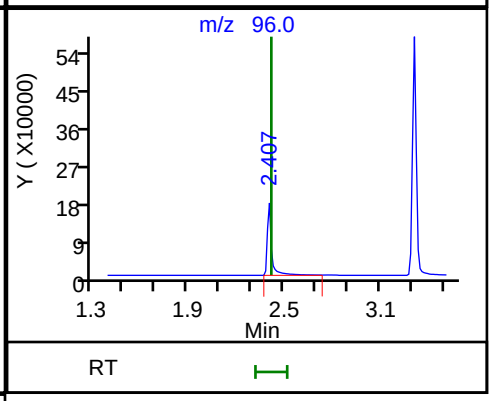
13 Bromomethane, CAS: 74-83-9

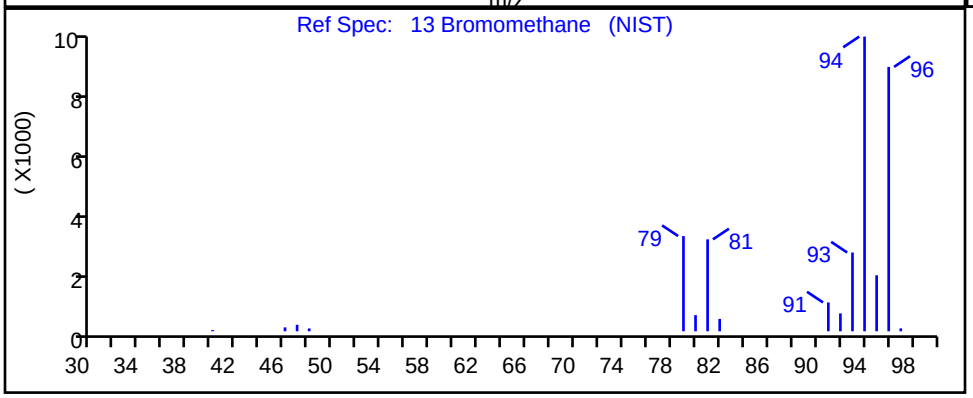
Processing Results











RT	Mass	Response	Amount
2.41	94.00	352639	20.532097
2.41	96.00	328957	

Reviewer: bosworthh, 10-Feb-2020 08:46:48
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26856.D
Lims ID: std8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 07-Feb-2020 18:06:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-012
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:09 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 08:47:48

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.929	5.929	0.000	99	1301458	20.0	20.0	
*	2 Chlorobenzene-d5	117	8.656	8.656	0.000	90	889508	20.0	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	421181	20.0	20.0	
$	4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	562291	40.0	41.4	
$	5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	712177	40.0	40.3	
$	6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	2379801	40.0	40.8	
$	7 4-Bromofluorobenzene (Surr	95	9.783	9.783	0.000	84	820638	40.0	40.8	
	9 Dichlorodifluoromethane	85	1.754	1.754	0.000	99	856984	40.0	45.9	
	10 Chloromethane	50	1.956	1.956	0.000	99	1165807	40.0	41.6	
	11 Vinyl chloride	62	2.075	2.075	0.000	98	1225521	40.0	43.2	
	12 Butadiene	54	2.110	2.110	0.000	91	944035	40.0	41.5	
	13 Bromomethane	94	2.407	2.407	0.000	89	692324	40.0	37.7	
	14 Chloroethane	64	2.537	2.537	0.000	99	627215	40.0	42.1	
	15 Dichlorofluoromethane	67	2.774	2.774	0.000	97	1278640	40.0	43.0	
	16 Trichlorofluoromethane	101	2.798	2.798	0.000	97	1041884	40.0	44.4	
	17 Ethyl ether	59	3.083	3.083	0.000	90	545176	40.0	41.7	
	18 Acrolein	56	3.225	3.225	0.000	99	542094	200.0	210.7	
	19 1,1-Dichloroethene	96	3.320	3.320	0.000	98	622393	40.0	43.4	
	20 1,1,2-Trichloro-1,2,2-trif	151	3.332	3.332	0.000	94	419557	40.0	44.4	
	21 Acetone	58	3.367	3.355	0.012	100	106749	80.0	81.3	
	23 Iodomethane	142	3.474	3.474	0.000	98	678412	40.0	41.6	
	24 Carbon disulfide	76	3.533	3.533	0.000	99	2152751	40.0	43.0	
	27 Methyl acetate	43	3.652	3.652	0.000	97	870610	80.0	76.5	
	26 3-Chloro-1-propene	41	3.676	3.676	0.000	90	1067433	40.0	42.0	
	28 Methylene Chloride	84	3.794	3.794	0.000	92	702950	40.0	40.4	
	29 2-Methyl-2-propanol	59	3.877	3.877	0.000	99	532474	400.0	378.5	
	30 Acrylonitrile	53	4.008	4.008	0.000	99	2549669	400.0	395.5	
	31 Methyl tert-butyl ether	73	4.031	4.031	0.000	95	1950790	40.0	41.7	
	32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	99	739203	40.0	42.4	
	33 Hexane	57	4.280	4.280	0.000	92	1049929	40.0	44.0	
	35 Vinyl acetate	43	4.423	4.423	0.000	97	1186697	40.0	44.2	

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	4.434	4.434	0.000	96	1298945	40.0	42.7	
40 2-Butanone (MEK)	72	4.921	4.921	0.000	99	149558	80.0	83.7	
41 2,2-Dichloropropane	77	4.944	4.944	0.000	88	1131278	40.0	43.5	
39 cis-1,2-Dichloroethene	96	4.933	4.933	0.000	82	788685	40.0	42.7	
45 Chlorobromomethane	128	5.146	5.146	0.000	97	311441	40.0	43.2	
46 Tetrahydrofuran	42	5.146	5.146	0.000	86	347213	80.0	76.6	
47 Chloroform	83	5.229	5.229	0.000	94	1196241	40.0	42.7	
48 1,1,1-Trichloroethane	97	5.371	5.371	0.000	99	1048174	40.0	43.4	
49 Cyclohexane	56	5.431	5.431	0.000	88	1222639	40.0	44.0	
50 1,1-Dichloropropene	75	5.514	5.514	0.000	95	1057078	40.0	43.2	
51 Carbon tetrachloride	117	5.514	5.514	0.000	83	869377	40.0	44.0	
52 Isobutyl alcohol	41	5.561	5.561	0.000	94	423724	1000.0	989.6	
54 Benzene	78	5.680	5.680	0.000	96	3077048	40.0	42.6	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	98	936030	40.0	42.3	
56 n-Heptane	57	5.905	5.905	0.000	91	576120	40.0	41.4	
58 Trichloroethene	130	6.249	6.249	0.000	98	699632	40.0	43.2	
60 Methylcyclohexane	83	6.450	6.450	0.000	90	1276030	40.0	43.1	
61 1,2-Dichloropropane	63	6.474	6.474	0.000	95	729025	40.0	43.5	
64 1,4-Dioxane	88	6.522	6.522	0.000	92	150263	800.0	777.4	
63 Dibromomethane	93	6.545	6.545	0.000	95	374178	40.0	42.5	
65 Dichlorobromomethane	83	6.688	6.688	0.000	99	865553	40.0	44.0	
67 2-Chloroethyl vinyl ether	63	6.925	6.925	0.000	92	915850	80.0	84.5	
68 cis-1,3-Dichloropropene	75	7.079	7.079	0.000	95	1157118	40.0	44.6	
69 4-Methyl-2-pentanone (MIBK	43	7.197	7.197	0.000	96	1002876	80.0	81.5	
70 Toluene	91	7.375	7.375	0.000	98	3127905	40.0	42.8	
71 trans-1,3-Dichloropropene	75	7.577	7.577	0.000	94	1035186	40.0	44.6	
72 Ethyl methacrylate	69	7.613	7.613	0.000	87	782437	40.0	43.0	
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	91	543628	40.0	43.1	
75 Tetrachloroethene	164	7.850	7.850	0.000	95	502485	40.0	43.1	
74 1,3-Dichloropropane	76	7.909	7.909	0.000	91	1048743	40.0	42.5	
76 2-Hexanone	43	7.945	7.945	0.000	95	688648	80.0	81.0	
78 Chlorodibromomethane	129	8.111	8.111	0.000	91	543756	40.0	44.9	
80 Ethylene Dibromide	107	8.229	8.229	0.000	98	534677	40.0	43.1	
82 Chlorobenzene	112	8.692	8.692	0.000	94	1862711	40.0	42.4	
83 1,1,1,2-Tetrachloroethane	131	8.763	8.763	0.000	93	623617	40.0	38.2	
84 Ethylbenzene	106	8.775	8.775	0.000	98	1103268	40.0	42.9	
85 m-Xylene & p-Xylene	106	8.893	8.893	0.000	97	1302649	40.0	42.9	
86 o-Xylene	106	9.261	9.261	0.000	97	1270589	40.0	42.6	
87 Styrene	104	9.285	9.285	0.000	95	2217645	40.0	38.9	
88 Bromoform	173	9.462	9.462	0.000	94	306125	40.0	39.3	
89 Isopropylbenzene	105	9.617	9.617	0.000	96	3260719	40.0	43.0	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	94	673583	40.0	42.3	
93 Bromobenzene	156	9.937	9.937	0.000	96	666084	40.0	42.6	
94 trans-1,4-Dichloro-2-buten	53	9.949	9.949	0.000	90	221697	40.0	41.2	
95 1,2,3-Trichloropropane	110	9.972	9.972	0.000	81	211302	40.0	41.4	
96 N-Propylbenzene	120	10.020	10.020	0.000	99	903283	40.0	42.7	
97 2-Chlorotoluene	126	10.115	10.115	0.000	96	726554	40.0	42.7	
99 1,3,5-Trimethylbenzene	105	10.198	10.198	0.000	93	2741772	40.0	43.7	
100 4-Chlorotoluene	126	10.233	10.233	0.000	98	761916	40.0	42.8	
102 tert-Butylbenzene	119	10.506	10.506	0.000	93	2266401	40.0	43.2	
104 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	97	2709566	40.0	43.4	
105 sec-Butylbenzene	105	10.731	10.731	0.000	94	3526626	40.0	43.5	

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	10.862	10.862	0.000	97	1338704	40.0	42.5	
107 4-Isopropyltoluene	119	10.874	10.874	0.000	97	3002683	40.0	44.1	
108 1,4-Dichlorobenzene	146	10.957	10.957	0.000	92	1321328	40.0	41.9	
111 n-Butylbenzene	91	11.289	11.289	0.000	98	2828378	40.0	44.7	
112 1,2-Dichlorobenzene	146	11.324	11.324	0.000	96	1214048	40.0	42.3	
113 1,2-Dibromo-3-Chloropropan	157	12.107	12.107	0.000	80	106243	40.0	41.4	
115 1,2,4-Trichlorobenzene	180	12.937	12.937	0.000	94	648436	40.0	42.5	
116 Hexachlorobutadiene	225	13.091	13.091	0.000	96	281394	40.0	42.0	
117 Naphthalene	128	13.233	13.233	0.000	97	1884716	40.0	41.4	
118 1,2,3-Trichlorobenzene	180	13.482	13.482	0.000	95	573661	40.0	42.0	
S 134 Trihalomethanes, Total	1				0		160.0	170.9	
S 158 Total BTEX	1				0		200.0	213.8	
S 131 1,2-Dichloroethene, Total	96				0			85.0	
S 132 1,3-Dichloropropene, Total	75				0			89.1	
S 133 Xylenes, Total	106				0		80.0	85.4	

Reagents:

vmrgas_00326	Amount Added:	32.00	Units: uL
vmarolistdw_00332	Amount Added:	32.00	Units: uL
vmrprimw_00372	Amount Added:	32.00	Units: uL
VM50SS_00390	Amount Added:	32.00	Units: uL
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL

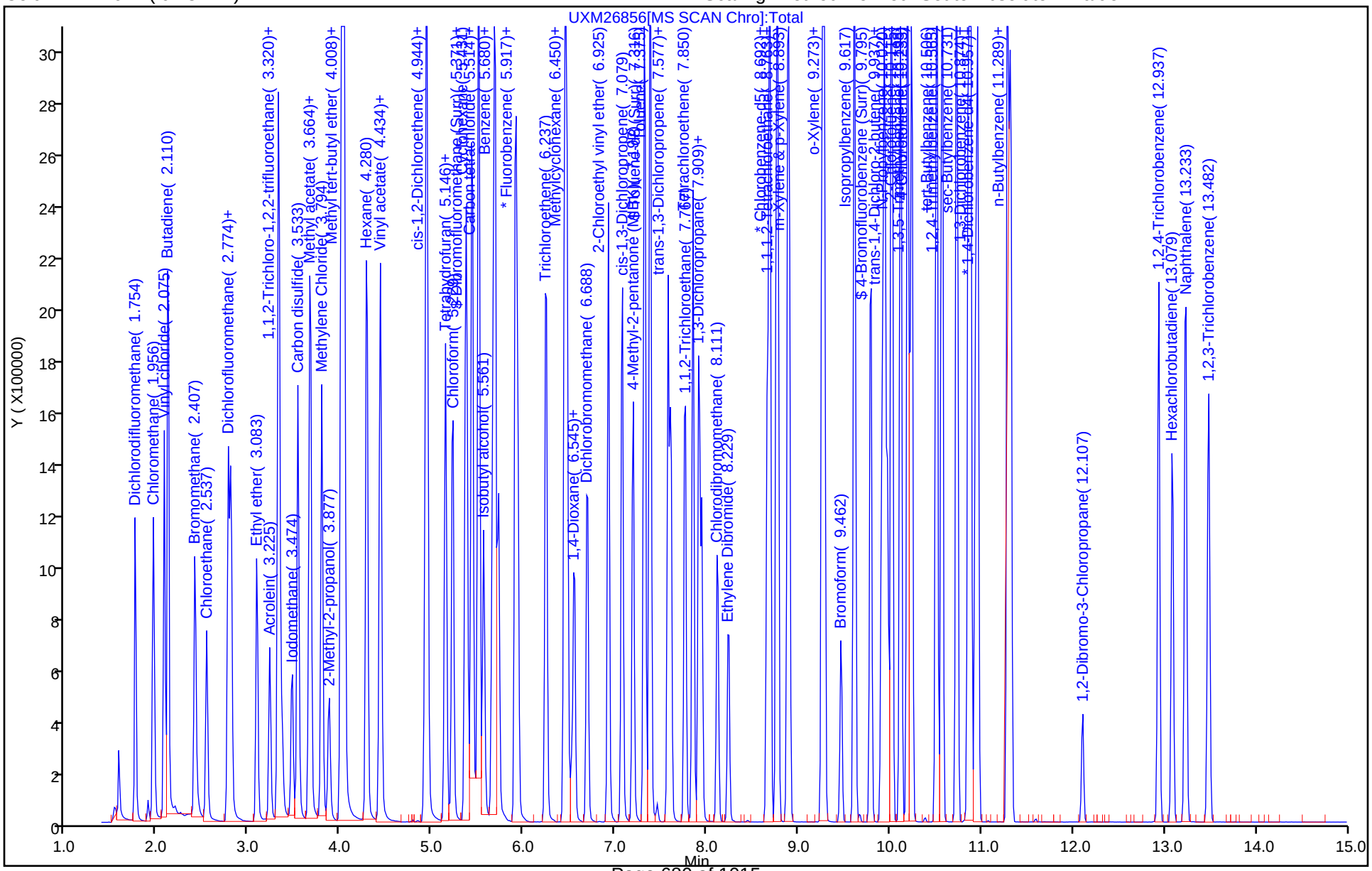
Report Date: 10-Feb-2020 13:40:11 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26856.D

Injection Date:	07-Feb-2020 18:06:30	Instrument ID:	A3UX16	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_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: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26857.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 07-Feb-2020 18:31:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-013
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:16 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 12:56:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.929	0.000	99	1302082	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	93	886855	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	420039	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	260348	20.0	19.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	99	343590	20.0	19.5	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	1132360	20.0	19.5	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	87	392982	20.0	19.6	
9 Dichlorodifluoromethane	85	1.754	1.754	0.000	99	378909	20.0	20.3	
10 Chloromethane	50	1.956	1.956	0.000	99	533076	20.0	19.0	
11 Vinyl chloride	62	2.075	2.075	0.000	98	555021	20.0	19.5	
12 Butadiene	54	2.122	2.122	0.000	91	457671	20.0	20.1	
13 Bromomethane	94	2.418	2.418	0.000	89	369322	20.0	20.1	
14 Chloroethane	64	2.537	2.537	0.000	99	285524	20.0	19.2	
15 Dichlorofluoromethane	67	2.774	2.774	0.000	97	573954	20.0	19.3	
16 Trichlorofluoromethane	101	2.810	2.810	0.000	98	461245	20.0	19.7	
17 Ethyl ether	59	3.082	3.082	0.000	91	254532	20.0	19.4	
18 Acrolein	56	3.225	3.225	0.000	100	261566	100.0	101.6	
19 1,1-Dichloroethene	96	3.320	3.320	0.000	97	281449	20.0	19.6	
20 1,1,2-Trichloro-1,2,2-trif	151	3.332	3.332	0.000	95	192239	20.0	20.3	
21 Acetone	58	3.367	3.355	0.012	100	54082	40.0	40.3	
23 Iodomethane	142	3.474	3.474	0.000	98	307382	20.0	18.8	
24 Carbon disulfide	76	3.533	3.533	0.000	99	982917	20.0	19.6	
27 Methyl acetate	43	3.652	3.652	0.000	97	442871	40.0	38.9	
26 3-Chloro-1-propene	41	3.675	3.675	0.000	90	493833	20.0	19.4	
28 Methylene Chloride	84	3.794	3.794	0.000	92	325250	20.0	18.7	
29 2-Methyl-2-propanol	59	3.877	3.877	0.000	99	280920	200.0	199.6	
30 Acrylonitrile	53	4.007	4.007	0.000	99	1260011	200.0	195.4	
31 Methyl tert-butyl ether	73	4.031	4.031	0.000	95	913905	20.0	19.5	
32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	98	337599	20.0	19.3	
33 Hexane	57	4.292	4.292	0.000	91	470376	20.0	19.7	
35 Vinyl acetate	43	4.422	4.422	0.000	97	537718	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
34 1,1-Dichloroethane	63	4.434	4.434	0.000	96	597373	20.0	19.6	
40 2-Butanone (MEK)	72	4.921	4.921	0.000	99	71652	40.0	40.1	
39 cis-1,2-Dichloroethene	96	4.944	4.944	0.000	83	360429	20.0	19.5	
41 2,2-Dichloropropane	77	4.944	4.944	0.000	88	516967	20.0	19.9	
45 Chlorobromomethane	128	5.146	5.146	0.000	98	143191	20.0	19.9	
46 Tetrahydrofuran	42	5.146	5.146	0.000	85	176772	40.0	39.0	
47 Chloroform	83	5.229	5.229	0.000	94	555610	20.0	19.8	
48 1,1,1-Trichloroethane	97	5.371	5.371	0.000	99	479962	20.0	19.9	
49 Cyclohexane	56	5.430	5.430	0.000	88	566604	20.0	20.4	
50 1,1-Dichloropropene	75	5.513	5.513	0.000	95	486993	20.0	19.9	
51 Carbon tetrachloride	117	5.513	5.513	0.000	82	389736	20.0	19.7	
52 Isobutyl alcohol	41	5.561	5.561	0.000	95	218787	500.0	510.7	
54 Benzene	78	5.679	5.679	0.000	96	1411045	20.0	19.5	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	98	442445	20.0	20.0	
56 n-Heptane	57	5.917	5.917	0.000	89	290626	20.0	19.4	
58 Trichloroethene	130	6.249	6.249	0.000	99	321162	20.0	19.8	
60 Methylcyclohexane	83	6.450	6.450	0.000	90	577855	20.0	19.5	
61 1,2-Dichloropropane	63	6.474	6.474	0.000	94	331120	20.0	19.8	
64 1,4-Dioxane	88	6.521	6.521	0.000	92	77995	400.0	403.3	
63 Dibromomethane	93	6.545	6.545	0.000	94	173510	20.0	19.7	
65 Dichlorobromomethane	83	6.699	6.699	0.000	99	389364	20.0	19.8	
67 2-Chloroethyl vinyl ether	63	6.925	6.925	0.000	92	423865	40.0	39.1	
68 cis-1,3-Dichloropropene	75	7.079	7.079	0.000	95	524129	20.0	20.2	
69 4-Methyl-2-pentanone (MIBK	43	7.197	7.197	0.000	96	504957	40.0	41.0	
70 Toluene	91	7.375	7.375	0.000	98	1422888	20.0	19.5	
71 trans-1,3-Dichloropropene	75	7.577	7.577	0.000	94	464012	20.0	20.0	
72 Ethyl methacrylate	69	7.612	7.612	0.000	89	364915	20.0	20.1	
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	92	250772	20.0	19.9	
75 Tetrachloroethene	164	7.850	7.850	0.000	95	230813	20.0	19.8	
74 1,3-Dichloropropane	76	7.909	7.909	0.000	90	492397	20.0	20.0	
76 2-Hexanone	43	7.944	7.944	0.000	94	355765	40.0	42.0	
78 Chlorodibromomethane	129	8.110	8.110	0.000	90	242619	20.0	20.1	
80 Ethylene Dibromide	107	8.241	8.241	0.000	98	249317	20.0	20.2	
82 Chlorobenzene	112	8.692	8.692	0.000	94	854457	20.0	19.5	
83 1,1,1,2-Tetrachloroethane	131	8.763	8.763	0.000	92	271482	20.0	16.9	
84 Ethylbenzene	106	8.775	8.775	0.000	99	493624	20.0	19.3	
85 m-Xylene & p-Xylene	106	8.893	8.893	0.000	97	601109	20.0	19.8	
86 o-Xylene	106	9.261	9.261	0.000	97	579075	20.0	19.5	
87 Styrene	104	9.284	9.284	0.000	95	970332	20.0	17.3	
88 Bromoform	173	9.462	9.462	0.000	94	131517	20.0	17.1	
89 Isopropylbenzene	105	9.617	9.617	0.000	96	1496348	20.0	19.8	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	94	320602	20.0	20.2	
93 Bromobenzene	156	9.937	9.937	0.000	96	303538	20.0	19.5	
94 trans-1,4-Dichloro-2-buten	53	9.949	9.949	0.000	81	105136	20.0	19.6	
95 1,2,3-Trichloropropane	110	9.972	9.972	0.000	82	100042	20.0	19.7	
96 N-Propylbenzene	120	10.020	10.020	0.000	99	416760	20.0	19.8	
97 2-Chlorotoluene	126	10.115	10.115	0.000	95	333044	20.0	19.6	
99 1,3,5-Trimethylbenzene	105	10.198	10.198	0.000	93	1242933	20.0	19.9	
100 4-Chlorotoluene	126	10.233	10.233	0.000	98	351390	20.0	19.8	
102 tert-Butylbenzene	119	10.506	10.506	0.000	93	1033299	20.0	19.7	
104 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	98	1225017	20.0	19.7	
105 sec-Butylbenzene	105	10.731	10.731	0.000	94	1614482	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
106 1,3-Dichlorobenzene	146	10.862	10.862	0.000	97	607426	20.0	19.3	
107 4-Isopropyltoluene	119	10.885	10.885	0.000	97	1344326	20.0	19.8	
108 1,4-Dichlorobenzene	146	10.957	10.957	0.000	93	599919	20.0	19.1	
111 n-Butylbenzene	91	11.289	11.289	0.000	98	1286570	20.0	20.4	
112 1,2-Dichlorobenzene	146	11.324	11.324	0.000	96	551497	20.0	19.3	
113 1,2-Dibromo-3-Chloropropan	157	12.107	12.107	0.000	78	49913	20.0	19.5	
115 1,2,4-Trichlorobenzene	180	12.937	12.937	0.000	93	289309	20.0	19.0	
116 Hexachlorobutadiene	225	13.091	13.091	0.000	96	127566	20.0	19.1	
117 Naphthalene	128	13.233	13.233	0.000	97	901119	20.0	19.9	
118 1,2,3-Trichlorobenzene	180	13.482	13.482	0.000	94	266052	20.0	19.5	
S 134 Trihalomethanes, Total	1				0		80.0	76.8	
S 158 Total BTEX	1				0		100.0	97.6	
S 133 Xylenes, Total	106				0		40.0	39.3	

Reagents:

vmrgas_00326	Amount Added: 16.00	Units: uL
vmarolistdw_00332	Amount Added: 16.00	Units: uL
vmrprimw_00372	Amount Added: 16.00	Units: uL
VM50SS_00390	Amount Added: 16.00	Units: uL
vm50is_stk_a_00006	Amount Added: 2.00	Units: uL

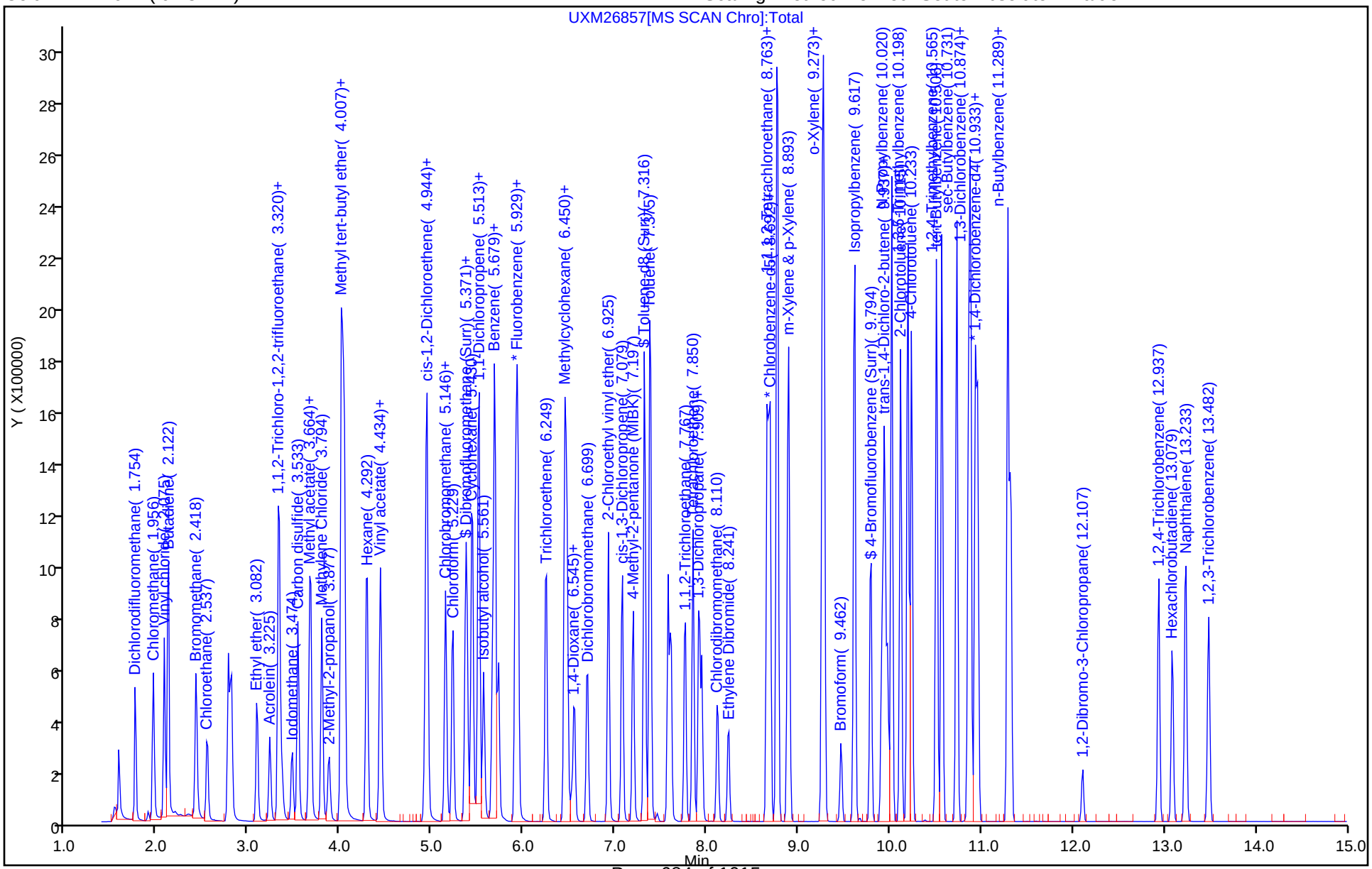
Report Date: 10-Feb-2020 13:40:18 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26857.D

Injection Date:	07-Feb-2020 18:31:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICIS L4			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: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26858.D
Lims ID: std8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-Feb-2020 18:55:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-014
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:23 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 12:57:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.940	5.929	0.011	99	1243995	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	89	856292	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	397163	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	128640	10.0	9.92	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	174511	10.0	10.3	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	542768	10.0	9.66	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	85	188579	10.0	9.73	
9 Dichlorodifluoromethane	85	1.754	1.754	0.000	99	186473	10.0	10.4	
10 Chloromethane	50	1.956	1.956	0.000	99	269765	10.0	10.1	
11 Vinyl chloride	62	2.075	2.075	0.001	97	284927	10.0	10.5	
12 Butadiene	54	2.122	2.122	0.000	91	228751	10.0	10.5	
13 Bromomethane	94	2.430	2.418	0.012	89	166351	10.0	9.48	
14 Chloroethane	64	2.549	2.537	0.012	99	135998	10.0	9.56	
15 Dichlorofluoromethane	67	2.774	2.774	0.000	97	283938	10.0	10.0	
16 Trichlorofluoromethane	101	2.810	2.810	0.000	98	225549	10.0	10.1	
17 Ethyl ether	59	3.083	3.082	0.000	90	128941	10.0	10.3	
18 Acrolein	56	3.225	3.225	0.000	99	132340	50.0	53.8	
19 1,1-Dichloroethene	96	3.320	3.320	0.000	97	132796	10.0	9.69	
20 1,1,2-Trichloro-1,2,2-trif	151	3.332	3.332	0.000	96	87933	10.0	9.74	
21 Acetone	58	3.367	3.355	0.012	99	29149	20.0	22.0	
23 Iodomethane	142	3.474	3.474	0.000	98	141203	10.0	9.05	
24 Carbon disulfide	76	3.533	3.533	0.000	99	460603	10.0	9.62	
27 Methyl acetate	43	3.652	3.652	0.000	97	228550	20.0	21.0	
26 3-Chloro-1-propene	41	3.675	3.675	0.000	90	234322	10.0	9.66	
28 Methylene Chloride	84	3.794	3.794	0.000	92	160002	10.0	9.61	
29 2-Methyl-2-propanol	59	3.877	3.877	0.000	100	153312	100.0	114.0	
30 Acrylonitrile	53	4.007	4.007	0.000	100	636512	100.0	103.3	
31 Methyl tert-butyl ether	73	4.031	4.031	0.000	96	446137	10.0	9.98	
32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	98	158305	10.0	9.49	
33 Hexane	57	4.292	4.292	0.000	91	218659	10.0	9.58	
35 Vinyl acetate	43	4.434	4.422	0.012	97	249858	10.0	9.74	

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	4.434	4.434	0.000	96	287077	10.0	9.87	
40 2-Butanone (MEK)	72	4.921	4.921	0.000	99	37145	20.0	21.8	
41 2,2-Dichloropropane	77	4.944	4.944	0.000	89	239704	10.0	9.63	
39 cis-1,2-Dichloroethene	96	4.932	4.944	-0.012	83	171607	10.0	9.71	
45 Chlorobromomethane	128	5.146	5.146	0.000	98	68858	10.0	10.0	
46 Tetrahydrofuran	42	5.146	5.146	0.000	85	91352	20.0	21.1	
47 Chloroform	83	5.229	5.229	0.000	94	266107	10.0	9.93	
48 1,1,1-Trichloroethane	97	5.383	5.371	0.012	99	225770	10.0	9.79	
49 Cyclohexane	56	5.430	5.430	0.000	89	263430	10.0	9.92	
50 1,1-Dichloropropene	75	5.514	5.513	0.001	95	224985	10.0	9.62	
51 Carbon tetrachloride	117	5.514	5.513	0.001	81	179079	10.0	9.47	
52 Isobutyl alcohol	41	5.561	5.561	0.000	95	120441	250.0	294.3	
54 Benzene	78	5.680	5.679	0.001	96	670337	10.0	9.72	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	98	218728	10.0	10.3	
56 n-Heptane	57	5.917	5.917	0.000	90	159898	10.0	9.89	
58 Trichloroethene	130	6.249	6.249	0.000	98	150507	10.0	9.71	
60 Methylcyclohexane	83	6.450	6.450	0.000	90	267746	10.0	9.47	
61 1,2-Dichloropropane	63	6.474	6.474	0.000	94	157852	10.0	9.86	
64 1,4-Dioxane	88	6.521	6.521	0.000	93	41066	200.0	222.3	
63 Dibromomethane	93	6.545	6.545	0.000	93	84666	10.0	10.1	
65 Dichlorobromomethane	83	6.699	6.699	0.000	99	184594	10.0	9.82	
67 2-Chloroethyl vinyl ether	63	6.925	6.925	0.000	93	205473	20.0	19.8	
68 cis-1,3-Dichloropropene	75	7.079	7.079	0.000	94	245629	10.0	9.90	
69 4-Methyl-2-pentanone (MIBK	43	7.197	7.197	0.000	95	262024	20.0	22.3	
70 Toluene	91	7.387	7.375	0.012	98	665847	10.0	9.47	
71 trans-1,3-Dichloropropene	75	7.577	7.577	0.000	95	221012	10.0	9.88	
72 Ethyl methacrylate	69	7.612	7.612	0.000	89	176153	10.0	10.0	
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	92	124384	10.0	10.2	
75 Tetrachloroethene	164	7.850	7.850	0.000	94	105342	10.0	9.38	
74 1,3-Dichloropropane	76	7.921	7.909	0.012	88	243260	10.0	10.2	
76 2-Hexanone	43	7.945	7.944	0.000	94	188592	20.0	23.0	
78 Chlorodibromomethane	129	8.122	8.110	0.012	91	111664	10.0	9.58	
80 Ethylene Dibromide	107	8.241	8.241	0.000	98	121232	10.0	10.2	
82 Chlorobenzene	112	8.692	8.692	0.000	95	403128	10.0	9.52	
83 1,1,1,2-Tetrachloroethane	131	8.763	8.763	0.000	92	123885	10.0	8.19	
84 Ethylbenzene	106	8.775	8.775	0.000	99	225927	10.0	9.13	
85 m-Xylene & p-Xylene	106	8.893	8.893	0.000	97	276718	10.0	9.46	
86 o-Xylene	106	9.261	9.261	0.000	98	268174	10.0	9.34	
87 Styrene	104	9.285	9.284	0.000	95	434329	10.0	8.20	
88 Bromoform	173	9.462	9.462	0.000	93	60303	10.0	8.33	
89 Isopropylbenzene	105	9.617	9.617	0.000	96	680554	10.0	9.32	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	94	158963	10.0	10.6	
93 Bromobenzene	156	9.937	9.937	0.000	97	143477	10.0	9.73	
94 trans-1,4-Dichloro-2-buten	53	9.949	9.949	0.000	82	50838	10.0	10.0	
95 1,2,3-Trichloropropane	110	9.972	9.972	0.000	83	51370	10.0	10.7	
96 N-Propylbenzene	120	10.020	10.020	0.000	99	184908	10.0	9.28	
97 2-Chlorotoluene	126	10.115	10.115	0.000	95	155200	10.0	9.67	
99 1,3,5-Trimethylbenzene	105	10.198	10.198	0.000	93	563506	10.0	9.53	
100 4-Chlorotoluene	126	10.233	10.233	0.000	98	159316	10.0	9.49	
102 tert-Butylbenzene	119	10.506	10.506	0.000	93	468544	10.0	9.46	
104 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	97	563186	10.0	9.58	
105 sec-Butylbenzene	105	10.731	10.731	0.000	94	723288	10.0	9.47	

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	10.862	10.862	0.000	97	279483	10.0	9.41	
107 4-Isopropyltoluene	119	10.885	10.885	0.000	97	597978	10.0	9.31	
108 1,4-Dichlorobenzene	146	10.957	10.957	0.000	93	284086	10.0	9.54	
111 n-Butylbenzene	91	11.289	11.289	0.000	98	575989	10.0	9.66	
112 1,2-Dichlorobenzene	146	11.324	11.324	0.000	96	261824	10.0	9.68	
113 1,2-Dibromo-3-Chloropropan	157	12.107	12.107	0.000	74	24279	10.0	10.0	
115 1,2,4-Trichlorobenzene	180	12.937	12.937	0.000	94	138544	10.0	9.64	
116 Hexachlorobutadiene	225	13.091	13.091	0.000	95	57997	10.0	9.18	
117 Naphthalene	128	13.233	13.233	0.000	97	446407	10.0	10.4	
118 1,2,3-Trichlorobenzene	180	13.482	13.482	0.000	94	129117	10.0	10.0	
S 134 Trihalomethanes, Total	1				0		40.0	37.7	
S 158 Total BTEX	1				0		50.0	47.1	
S 131 1,2-Dichloroethene, Total	96				0			19.2	
S 132 1,3-Dichloropropene, Total	75				0			19.8	
S 133 Xylenes, Total	106				0		20.0	18.8	

Reagents:

vmrgas_00326	Amount Added:	8.00	Units: uL
vmarolistdw_00332	Amount Added:	8.00	Units: uL
vmrprimw_00372	Amount Added:	8.00	Units: uL
VM50SS_00390	Amount Added:	8.00	Units: uL
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL

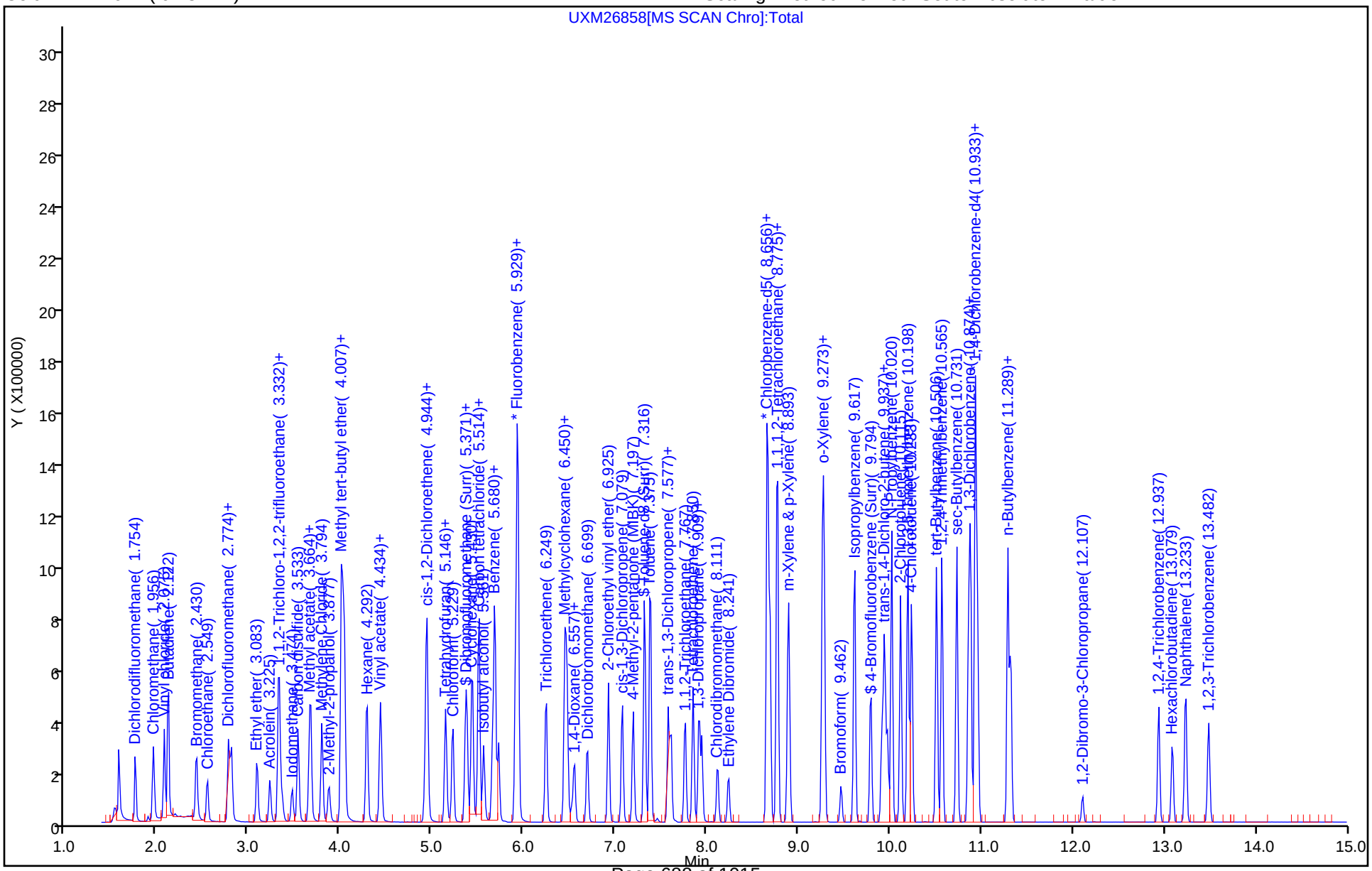
Report Date: 10-Feb-2020 13:40:25 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26858.D

Injection Date:	07-Feb-2020 18:55:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L3			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
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26859.D
Lims ID: std8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-Feb-2020 19:20:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-015
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:29 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 12:58:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.929	0.000	99	1144360	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	88	799440	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	381651	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	90	10433	1.00	0.8742	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	97	15574	1.00	1.00	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	46370	1.00	0.8844	
$ 7 4-Bromofluorobenzene (Surr	95	9.795	9.794	0.001	81	16804	1.00	0.9287	
9 Dichlorodifluoromethane	85	1.754	1.754	0.000	99	14222	1.00	0.8656	
10 Chloromethane	50	1.956	1.956	0.000	99	25846	1.00	1.05	
11 Vinyl chloride	62	2.075	2.075	0.001	97	23385	1.00	0.9367	
12 Butadiene	54	2.122	2.122	0.000	91	18446	1.00	0.9222	
13 Bromomethane	94	2.430	2.418	0.012	90	16435	1.00	1.02	
14 Chloroethane	64	2.549	2.537	0.012	97	10991	1.00	0.8395	
15 Dichlorofluoromethane	67	2.774	2.774	0.000	96	25286	1.00	0.9682	
16 Trichlorofluoromethane	101	2.810	2.810	0.000	97	17457	1.00	0.8462	
17 Ethyl ether	59	3.083	3.082	0.001	89	10910	1.00	0.9484	
18 Acrolein	56	3.225	3.225	0.000	98	9816	5.00	4.34	
19 1,1-Dichloroethene	96	3.320	3.320	0.000	98	11172	1.00	0.8859	
20 1,1,2-Trichloro-1,2,2-trif	151	3.332	3.332	0.000	92	6831	1.00	0.8224	
21 Acetone	58	3.367	3.355	0.012	99	3893	2.00	1.72	
23 Iodomethane	142	3.474	3.474	0.000	98	13802	1.00	0.9615	
24 Carbon disulfide	76	3.533	3.533	0.000	99	39434	1.00	0.8955	
27 Methyl acetate	43	3.652	3.652	0.000	97	21072	2.00	2.11	
26 3-Chloro-1-propene	41	3.676	3.675	0.001	89	21566	1.00	0.9662	
28 Methylene Chloride	84	3.794	3.794	0.000	92	15898	1.00	1.04	
29 2-Methyl-2-propanol	59	3.877	3.877	0.000	97	12167	10.0	9.84	
30 Acrylonitrile	53	4.008	4.007	0.001	99	55521	10.0	9.80	
31 Methyl tert-butyl ether	73	4.031	4.031	0.000	97	36214	1.00	0.8809	
32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	98	14088	1.00	0.9183	
33 Hexane	57	4.292	4.292	0.000	91	16129	1.00	0.7681	
35 Vinyl acetate	43	4.434	4.422	0.012	97	19037	1.00	0.8069	

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	4.434	4.434	0.000	96	24963	1.00	0.9326	
40 2-Butanone (MEK)	72	4.921	4.921	0.000	98	2746	2.00	1.75	
41 2,2-Dichloropropane	77	4.944	4.944	0.000	89	19269	1.00	0.8419	
39 cis-1,2-Dichloroethene	96	4.944	4.944	0.000	82	15146	1.00	0.9319	
45 Chlorobromomethane	128	5.146	5.146	0.000	95	6369	1.00	1.01	
46 Tetrahydrofuran	42	5.158	5.146	0.012	86	8089	2.00	2.03	
47 Chloroform	83	5.229	5.229	0.000	93	23575	1.00	0.9564	
48 1,1,1-Trichloroethane	97	5.371	5.371	0.000	98	18562	1.00	0.8747	
49 Cyclohexane	56	5.431	5.430	0.001	89	21498	1.00	0.8801	
50 1,1-Dichloropropene	75	5.514	5.513	0.001	93	17833	1.00	0.8288	
51 Carbon tetrachloride	117	5.514	5.513	0.001	79	14095	1.00	0.8106	
52 Isobutyl alcohol	41	5.561	5.561	0.000	90	8441	25.0	22.4	
54 Benzene	78	5.680	5.679	0.001	97	56142	1.00	0.8846	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	97	18816	1.00	0.9668	
56 n-Heptane	57	5.929	5.917	0.012	88	46013	1.00	1.01	
58 Trichloroethene	130	6.249	6.249	0.000	97	12333	1.00	0.8654	
60 Methylcyclohexane	83	6.450	6.450	0.000	86	19326	1.00	0.7430	
61 1,2-Dichloropropane	63	6.474	6.474	0.000	92	12806	1.00	0.8698	
64 1,4-Dioxane	88	6.522	6.521	0.001	89	3128	20.0	18.4	
63 Dibromomethane	93	6.545	6.545	0.000	93	7172	1.00	0.9268	
65 Dichlorobromomethane	83	6.688	6.699	-0.011	98	14867	1.00	0.8597	
67 2-Chloroethyl vinyl ether	63	6.925	6.925	0.000	93	14019	2.00	1.47	
68 cis-1,3-Dichloropropene	75	7.079	7.079	0.000	94	18532	1.00	0.8122	
69 4-Methyl-2-pentanone (MIBK	43	7.198	7.197	0.001	95	19517	2.00	1.80	
70 Toluene	91	7.375	7.375	0.000	98	58299	1.00	0.8878	
71 trans-1,3-Dichloropropene	75	7.577	7.577	0.000	91	16823	1.00	0.8057	
72 Ethyl methacrylate	69	7.613	7.612	0.001	88	11489	1.00	0.7020	
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	90	9967	1.00	0.8791	
75 Tetrachloroethene	164	7.850	7.850	0.000	94	8917	1.00	0.8501	
74 1,3-Dichloropropane	76	7.909	7.909	0.000	89	19482	1.00	0.8783	
76 2-Hexanone	43	7.945	7.944	0.001	93	14049	2.00	1.84	
78 Chlorodibromomethane	129	8.111	8.110	0.001	86	8089	1.00	0.7433	
80 Ethylene Dibromide	107	8.229	8.241	-0.012	98	9319	1.00	0.8362	
82 Chlorobenzene	112	8.692	8.692	0.000	94	36120	1.00	0.9141	
83 1,1,1,2-Tetrachloroethane	131	8.763	8.763	0.000	85	8717	1.00	0.9784	
84 Ethylbenzene	106	8.775	8.775	0.000	98	19158	1.00	0.8291	
85 m-Xylene & p-Xylene	106	8.893	8.893	0.000	97	23931	1.00	0.8759	
86 o-Xylene	106	9.261	9.261	0.000	98	22897	1.00	0.8541	
87 Styrene	104	9.285	9.284	0.001	94	32226	1.00	0.99	
88 Bromoform	173	9.462	9.462	0.000	94	4417	1.00	0.9896	
89 Isopropylbenzene	105	9.617	9.617	0.000	96	59161	1.00	0.8676	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	94	13110	1.00	0.9076	
93 Bromobenzene	156	9.937	9.937	0.000	96	11907	1.00	0.8401	
94 trans-1,4-Dichloro-2-buten	53	9.949	9.949	0.000	67	3905	1.00	0.8014	
95 1,2,3-Trichloropropane	110	9.972	9.972	0.000	83	4231	1.00	0.9154	
96 N-Propylbenzene	120	10.020	10.020	0.000	99	16123	1.00	0.8421	
97 2-Chlorotoluene	126	10.115	10.115	0.000	95	13207	1.00	0.8563	
99 1,3,5-Trimethylbenzene	105	10.198	10.198	0.000	94	46429	1.00	0.8167	
100 4-Chlorotoluene	126	10.233	10.233	0.000	98	13910	1.00	0.8621	
102 tert-Butylbenzene	119	10.506	10.506	0.000	93	40121	1.00	0.8434	
104 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	98	46506	1.00	0.8229	
105 sec-Butylbenzene	105	10.731	10.731	0.000	94	61449	1.00	0.8372	

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	10.862	10.862	0.000	95	24492	1.00	0.8585	
107 4-Isopropyltoluene	119	10.874	10.885	-0.011	97	47888	1.00	0.7757	
108 1,4-Dichlorobenzene	146	10.957	10.957	0.000	95	27286	1.00	0.9537	
111 n-Butylbenzene	91	11.289	11.289	0.000	97	44370	1.00	0.7740	
112 1,2-Dichlorobenzene	146	11.324	11.324	0.000	94	23014	1.00	0.8853	
113 1,2-Dibromo-3-Chloropropan	157	12.107	12.107	0.000	64	1760	1.00	0.7567	
115 1,2,4-Trichlorobenzene	180	12.937	12.937	0.000	92	12862	1.00	0.9314	
116 Hexachlorobutadiene	225	13.079	13.091	-0.012	89	4598	1.00	0.7571	
117 Naphthalene	128	13.233	13.233	0.000	97	38278	1.00	0.9280	
118 1,2,3-Trichlorobenzene	180	13.483	13.482	0.001	94	11770	1.00	0.9510	
S 134 Trihalomethanes, Total	1				0		4.00	3.55	
S 158 Total BTEX	1				0		5.00	4.33	
S 131 1,2-Dichloroethene, Total	96				0			1.85	
S 132 1,3-Dichloropropene, Total	75				0			1.62	
S 133 Xylenes, Total	106				0		2.00	1.73	

Reagents:

vmrgas_00326	Amount Added:	0.80	Units: uL	
vmarolistdw_00332	Amount Added:	0.80	Units: uL	
vmrprimw_00372	Amount Added:	0.80	Units: uL	
VM50SS_00390	Amount Added:	0.80	Units: uL	
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	

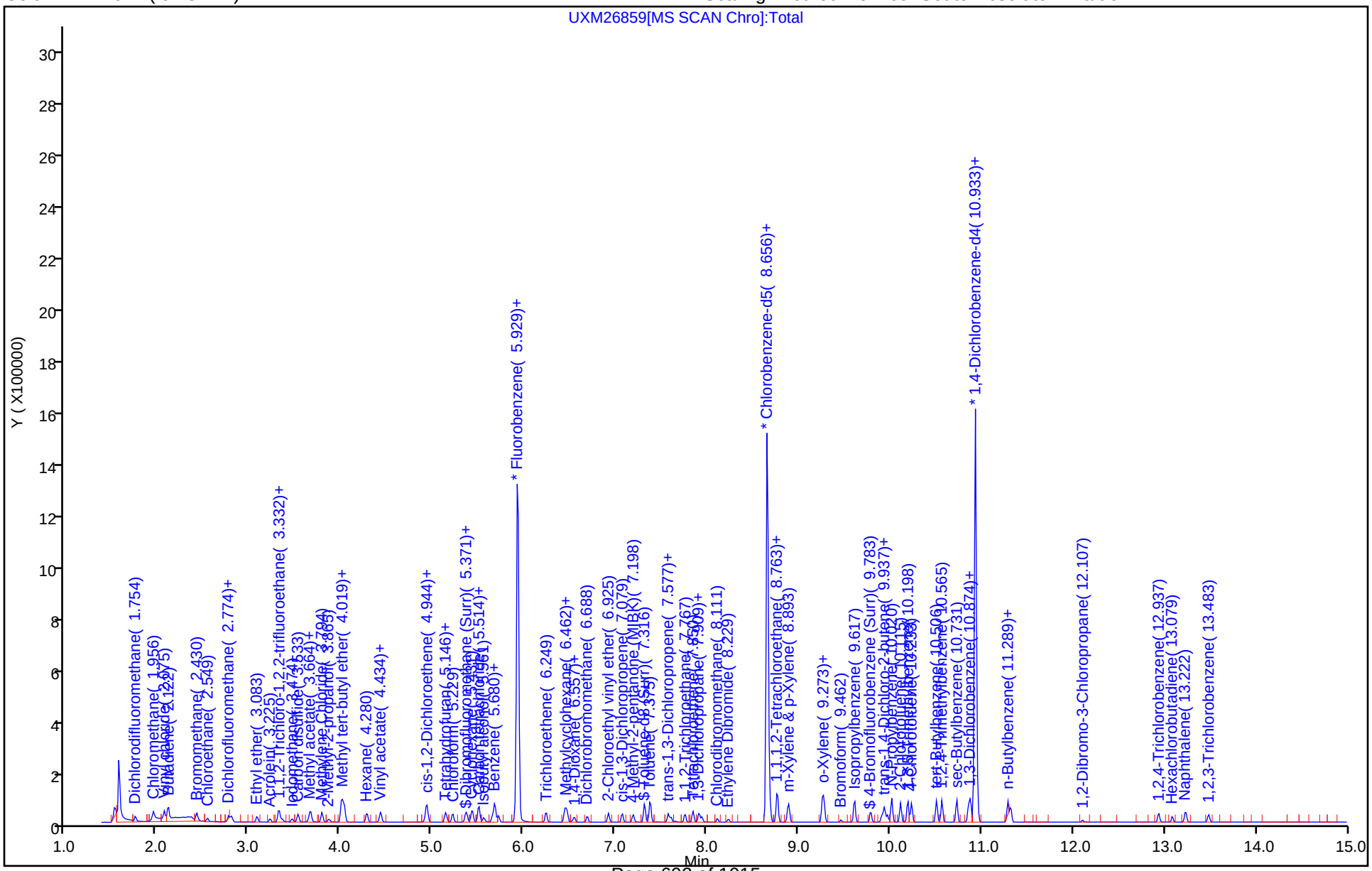
Report Date: 10-Feb-2020 13:40:30 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26859.D

Injection Date:	07-Feb-2020 19:20:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L2			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



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26860.D
Lims ID: std8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-Feb-2020 19:45:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-016
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:34 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 13:13:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.929	0.000	99	1090310	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	87	765930	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	368768	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	86	5449	0.5000	0.4792	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	96	7127	0.5000	0.4819	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	92	21964	0.5000	0.4372	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	82	7681	0.5000	0.4431	
9 Dichlorodifluoromethane	85	1.754	1.754	0.000	96	6209	0.5000	0.3966	
10 Chloromethane	50	1.956	1.956	0.000	97	12876	0.5000	0.5481	
11 Vinyl chloride	62	2.075	2.075	0.001	95	11148	0.5000	0.4687	
12 Butadiene	54	2.110	2.122	-0.012	88	9006	0.5000	0.4726	
13 Bromomethane	94	2.430	2.418	0.012	86	8363	0.5000	0.5436	
14 Chloroethane	64	2.549	2.537	0.012	96	5128	0.5000	0.4111	
15 Dichlorofluoromethane	67	2.774	2.774	0.000	95	11401	0.5000	0.4582	
16 Trichlorofluoromethane	101	2.810	2.810	0.000	96	8339	0.5000	0.4243	
17 Ethyl ether	59	3.083	3.082	0.000	89	5499	0.5000	0.5017	
18 Acrolein	56	3.225	3.225	0.000	97	4128	2.50	1.91	
19 1,1-Dichloroethene	96	3.320	3.320	0.000	96	5057	0.5000	0.4209	
20 1,1,2-Trichloro-1,2,2-trif	151	3.332	3.332	0.000	88	2990	0.5000	0.3778	
21 Acetone	58		3.355				ND	ND	U
23 Iodomethane	142	3.474	3.474	0.000	97	7081	0.5000	0.5177	
24 Carbon disulfide	76	3.533	3.533	0.000	99	20196	0.5000	0.4814	
27 Methyl acetate	43	3.664	3.652	0.012	96	9781	1.00	1.03	
26 3-Chloro-1-propene	41	3.675	3.675	0.000	87	10542	0.5000	0.4957	
28 Methylene Chloride	84	3.794	3.794	0.000	90	8488	0.5000	0.5819	
29 2-Methyl-2-propanol	59	3.877	3.877	0.000	96	5656	5.00	4.80	
30 Acrylonitrile	53	4.007	4.007	0.000	98	25007	5.00	4.63	
31 Methyl tert-butyl ether	73	4.031	4.031	0.000	96	16649	0.5000	0.4250	
32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	97	6404	0.5000	0.4381	
33 Hexane	57		4.292				ND	ND	U
35 Vinyl acetate	43	4.434	4.422	0.012	96	8647	0.5000	0.3847	

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	4.434	4.434	0.000	92	12038	0.5000	0.4720	
40 2-Butanone (MEK)	72	4.921	4.921	0.000	98	1093	1.00	0.7306	
41 2,2-Dichloropropane	77	4.944	4.944	0.000	85	9110	0.5000	0.4177	
39 cis-1,2-Dichloroethene	96	4.944	4.944	0.000	82	6667	0.5000	0.4305	
45 Chlorobromomethane	128	5.146	5.146	0.000	96	2755	0.5000	0.4564	
46 Tetrahydrofuran	42	5.146	5.146	0.000	68	4071	1.00	1.07	
47 Chloroform	83	5.229	5.229	0.000	92	10756	0.5000	0.4580	
48 1,1,1-Trichloroethane	97	5.383	5.371	0.012	95	8499	0.5000	0.4203	
49 Cyclohexane	56	5.430	5.430	0.000	88	9071	0.5000	0.3898	
50 1,1-Dichloropropene	75	5.514	5.513	0.001	92	8623	0.5000	0.4206	
51 Carbon tetrachloride	117	5.514	5.513	0.001	77	6352	0.5000	0.3834	
52 Isobutyl alcohol	41	5.561	5.561	0.000	91	3568	12.5	9.95	
54 Benzene	78	5.680	5.679	0.001	96	27610	0.5000	0.4566	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	95	8378	0.5000	0.4518	
56 n-Heptane	57		5.917				ND	ND	U
58 Trichloroethene	130	6.249	6.249	0.000	93	5824	0.5000	0.4289	
60 Methylcyclohexane	83		6.450				ND	ND	U
61 1,2-Dichloropropane	63	6.474	6.474	0.000	92	6203	0.5000	0.4422	
64 1,4-Dioxane	88		6.521				ND	ND	U
63 Dibromomethane	93	6.557	6.545	0.012	95	3324	0.5000	0.4508	
65 Dichlorobromomethane	83	6.699	6.699	0.000	94	6856	0.5000	0.4161	
67 2-Chloroethyl vinyl ether	63		6.925				ND	ND	U
68 cis-1,3-Dichloropropene	75	7.079	7.079	0.000	92	8241	0.5000	0.3791	
69 4-Methyl-2-pentanone (MIBK	43	7.197	7.197	0.000	93	8623	1.00	0.8365	
70 Toluene	91	7.375	7.375	0.000	98	27149	0.5000	0.4315	
71 trans-1,3-Dichloropropene	75	7.577	7.577	0.000	92	7251	0.5000	0.3625	
72 Ethyl methacrylate	69		7.612				ND	ND	U
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	85	4539	0.5000	0.4179	
75 Tetrachloroethene	164	7.850	7.850	0.000	95	3816	0.5000	0.3797	
74 1,3-Dichloropropane	76	7.909	7.909	0.000	92	9281	0.5000	0.4367	
76 2-Hexanone	43	7.944	7.944	0.000	93	6048	1.00	0.8263	
78 Chlorodibromomethane	129	8.111	8.110	0.000	87	3791	0.5000	0.3636	
80 Ethylene Dibromide	107	8.241	8.241	0.000	93	4448	0.5000	0.4166	
82 Chlorobenzene	112	8.692	8.692	0.000	97	16709	0.5000	0.4414	
83 1,1,1,2-Tetrachloroethane	131	8.763	8.763	0.000	82	4091	0.5000	0.6785	
84 Ethylbenzene	106	8.775	8.775	0.000	99	8957	0.5000	0.4046	
85 m-Xylene & p-Xylene	106	8.893	8.893	0.000	95	11297	0.5000	0.4316	
86 o-Xylene	106	9.261	9.261	0.000	97	10565	0.5000	0.4113	
87 Styrene	104	9.285	9.284	0.000	95	14136	0.5000	0.6577	
88 Bromoform	173	9.462	9.462	0.000	88	1861	0.5000	0.6396	
89 Isopropylbenzene	105	9.617	9.617	0.000	95	26302	0.5000	0.4026	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	89	5487	0.5000	0.3932	
93 Bromobenzene	156	9.937	9.937	0.000	95	5825	0.5000	0.4254	
94 trans-1,4-Dichloro-2-buten	53		9.949				ND	ND	U
95 1,2,3-Trichloropropane	110	9.972	9.972	0.000	80	2015	0.5000	0.4512	
96 N-Propylbenzene	120	10.020	10.020	0.000	98	7860	0.5000	0.4249	
97 2-Chlorotoluene	126	10.115	10.115	0.000	95	6620	0.5000	0.4442	
99 1,3,5-Trimethylbenzene	105	10.198	10.198	0.000	95	20754	0.5000	0.3778	
100 4-Chlorotoluene	126	10.233	10.233	0.000	97	6617	0.5000	0.4244	
102 tert-Butylbenzene	119	10.506	10.506	0.000	92	17645	0.5000	0.3839	
104 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	97	21145	0.5000	0.3872	
105 sec-Butylbenzene	105	10.731	10.731	0.000	93	27466	0.5000	0.3873	

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	10.862	10.862	0.000	95	11487	0.5000	0.4167	
107 4-Isopropyltoluene	119	10.885	10.885	0.000	96	20981	0.5000	0.3517	
108 1,4-Dichlorobenzene	146	10.957	10.957	0.000	92	12504	0.5000	0.4523	
111 n-Butylbenzene	91	11.289	11.289	0.000	97	19419	0.5000	0.3506	
112 1,2-Dichlorobenzene	146	11.324	11.324	0.000	95	11270	0.5000	0.4487	
113 1,2-Dibromo-3-Chloropropan	157		12.107				ND	ND	
115 1,2,4-Trichlorobenzene	180	12.937	12.937	0.000	90	5333	0.5000	0.3997	
116 Hexachlorobutadiene	225		13.091				ND	ND	U
117 Naphthalene	128	13.233	13.233	0.000	96	16318	0.5000	0.4095	
118 1,2,3-Trichlorobenzene	180	13.482	13.482	0.000	93	5089	0.5000	0.4255	
S 134 Trihalomethanes, Total	1				0		2.00	1.88	
S 158 Total BTEX	1				0		2.50	2.14	
S 131 1,2-Dichloroethene, Total	96				0			0.8687	
S 132 1,3-Dichloropropene, Total	75				0			0.7416	
S 133 Xylenes, Total	106				0		1.00	0.8429	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

vmrgas_00326	Amount Added:	0.40	Units: uL
vmarolistdw_00332	Amount Added:	0.40	Units: uL
vmrprimw_00372	Amount Added:	0.40	Units: uL
VM50SS_00390	Amount Added:	0.40	Units: uL
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL

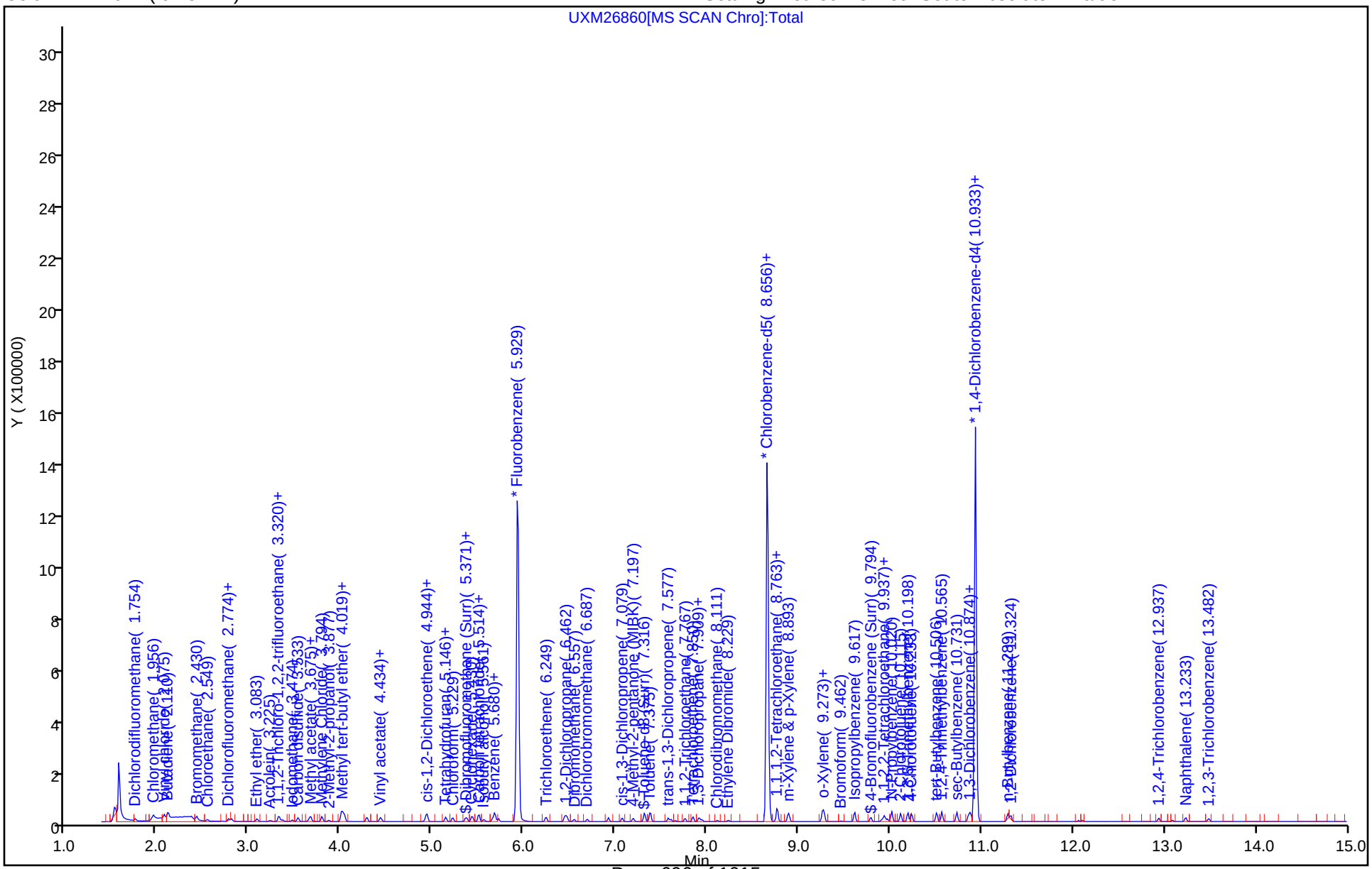
Report Date: 10-Feb-2020 13:40:35 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26860.D

Injection Date:	07-Feb-2020 19:45:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	std8260 L1			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



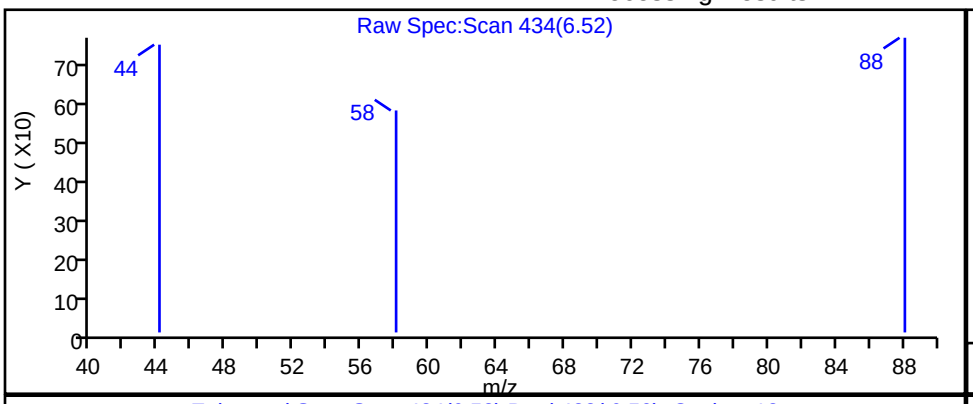
User Disabled Compound Report

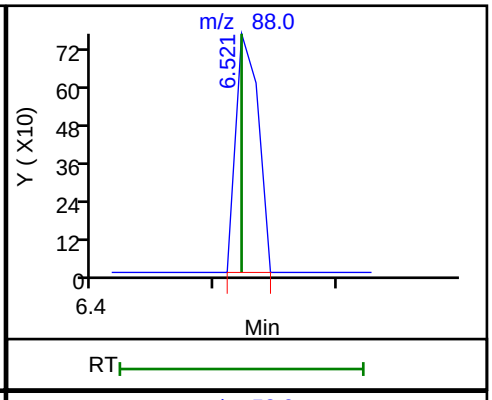
Eurofins TestAmerica, Canton

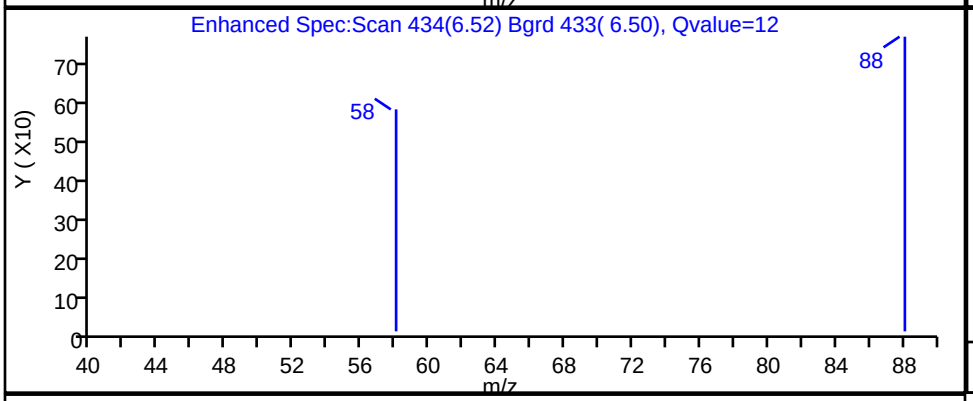
Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26860.D				
Injection Date:	07-Feb-2020 19:45:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

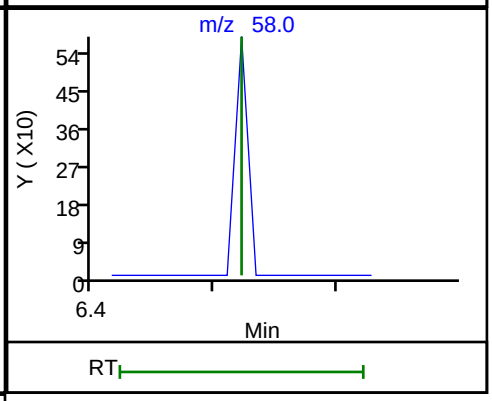
64 1,4-Dioxane, CAS: 123-91-1

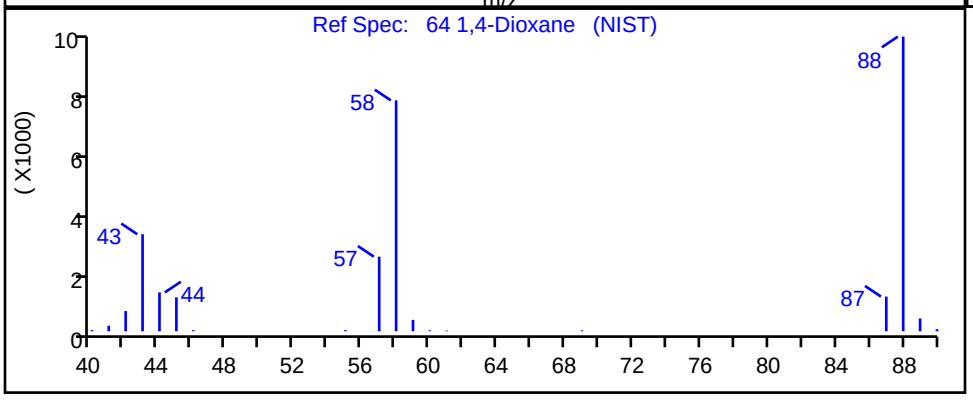
Processing Results











RT	Mass	Response	Amount
6.52	88.00	977	7.939228
6.52	58.00	0	

Reviewer: bosworthh, 10-Feb-2020 13:02:47

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

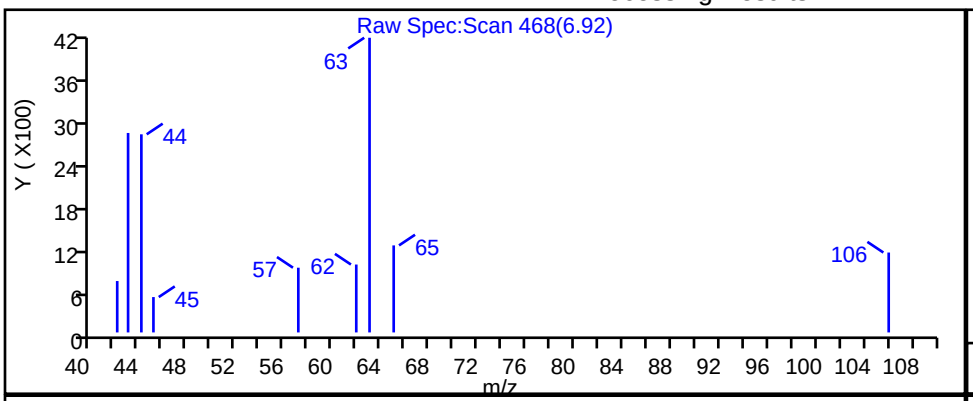
User Disabled Compound Report

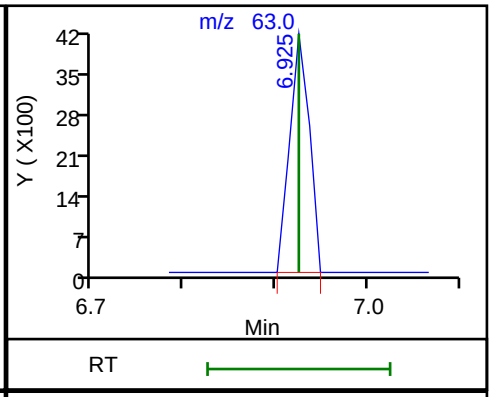
Eurofins TestAmerica, Canton

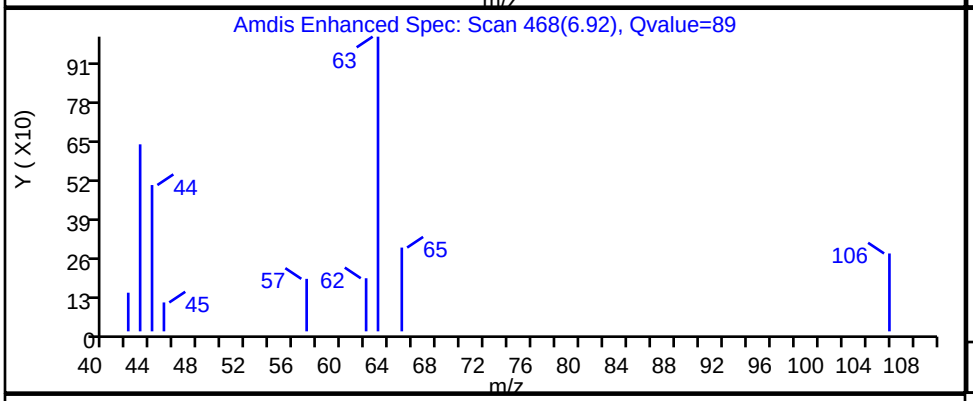
Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26860.D				
Injection Date:	07-Feb-2020 19:45:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

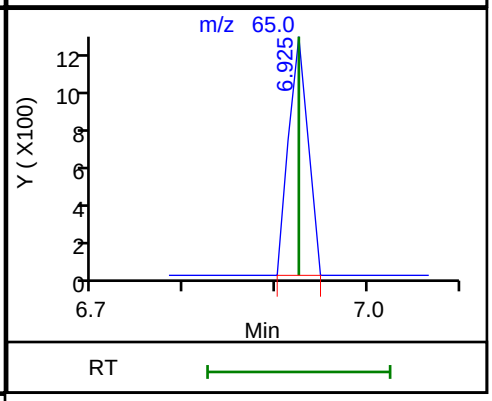
67 2-Chloroethyl vinyl ether, CAS: 110-75-8

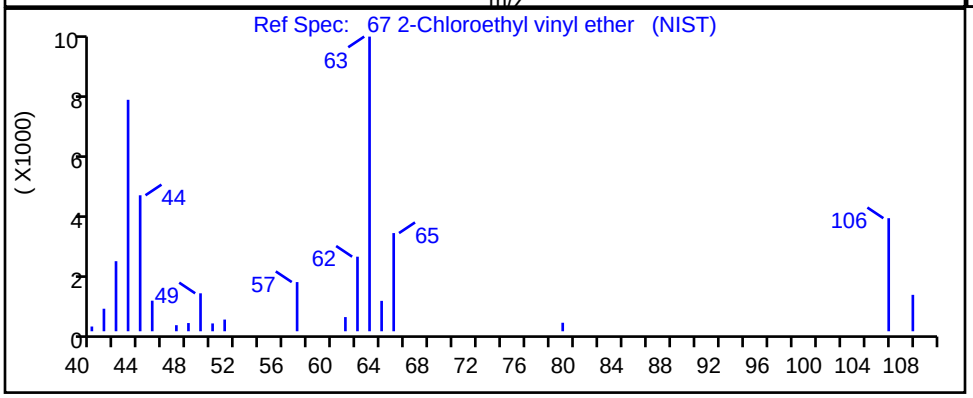
Processing Results











RT	Mass	Response	Amount
6.92	63.00	6205	1.153889
6.92	65.00	1811	

Reviewer: bosworthh, 10-Feb-2020 13:03:55

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

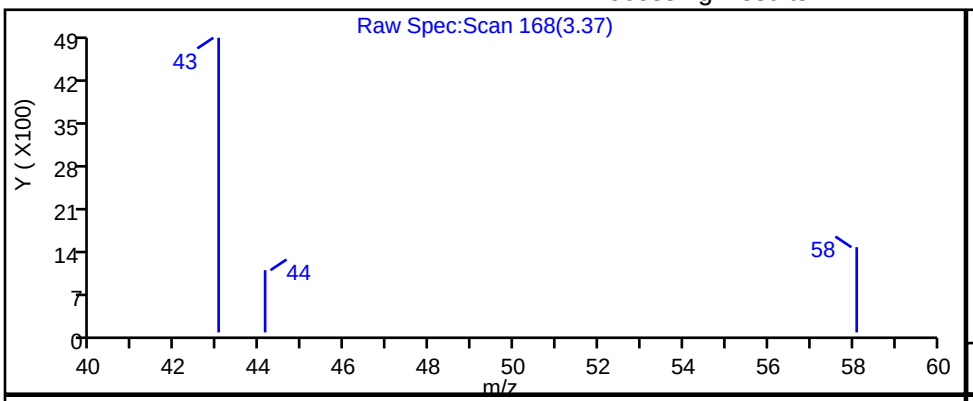
User Disabled Compound Report

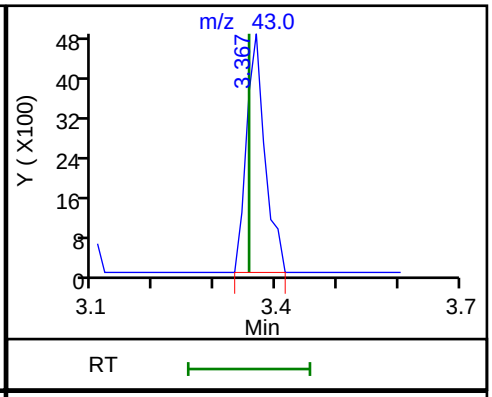
Eurofins TestAmerica, Canton

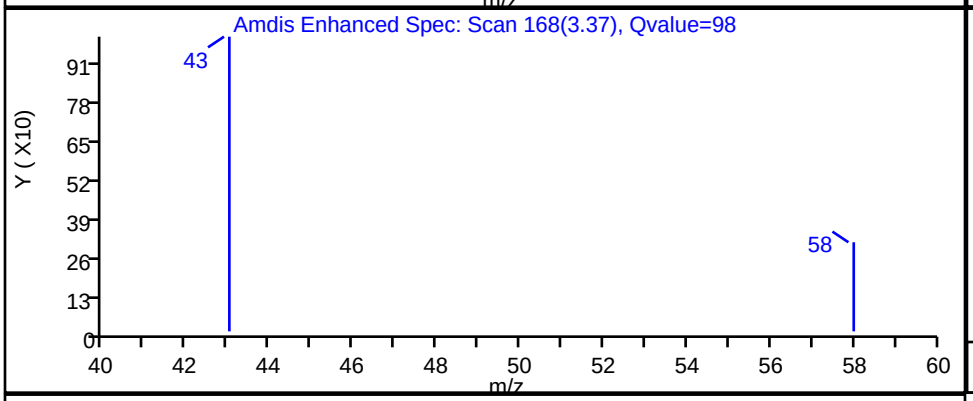
Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26860.D
Injection Date: 07-Feb-2020 19:45:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

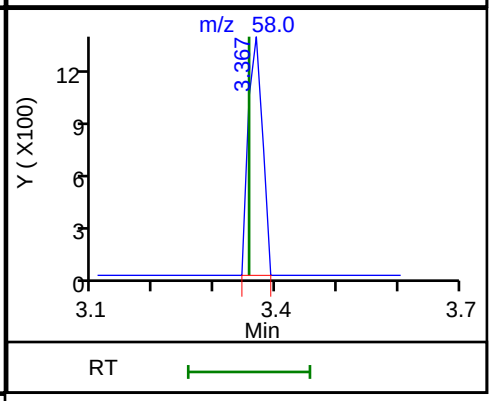
21 Acetone, CAS: 67-64-1

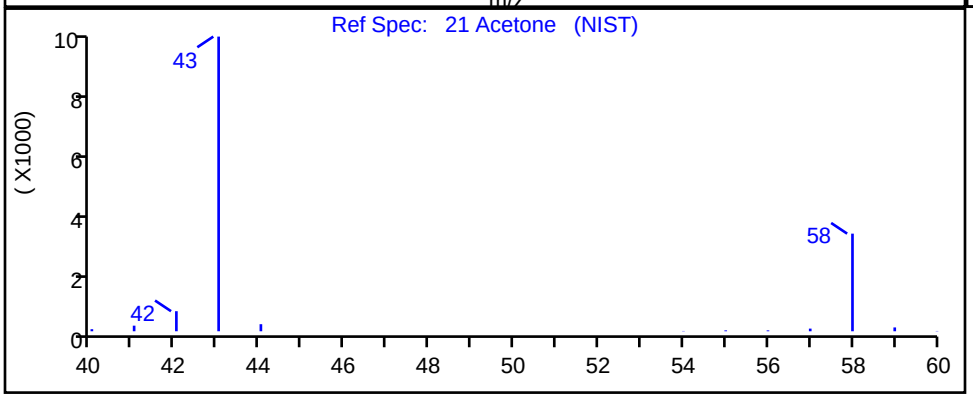
Processing Results











RT	Mass	Response	Amount
3.37	43.00	10124	
3.37	58.00	2261	0.781022

Reviewer: bosworthh, 10-Feb-2020 13:00:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

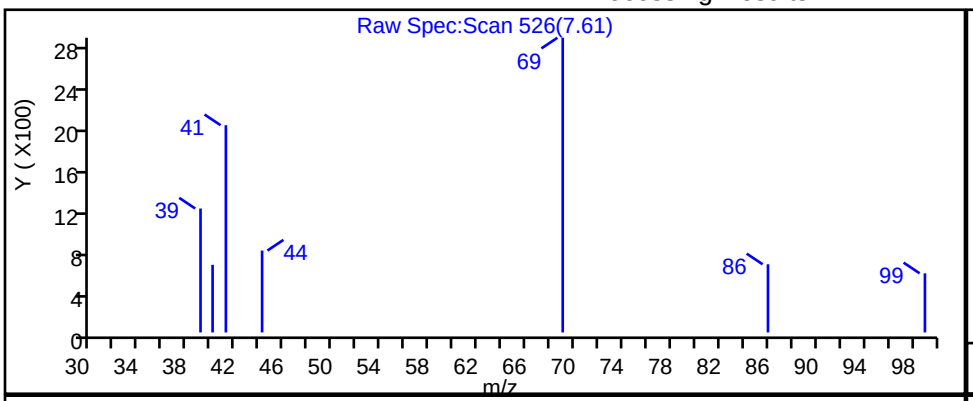
User Disabled Compound Report

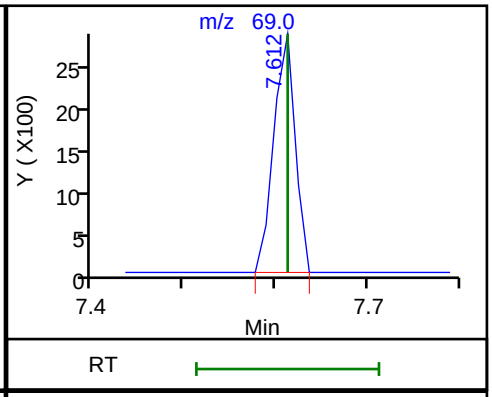
Eurofins TestAmerica, Canton

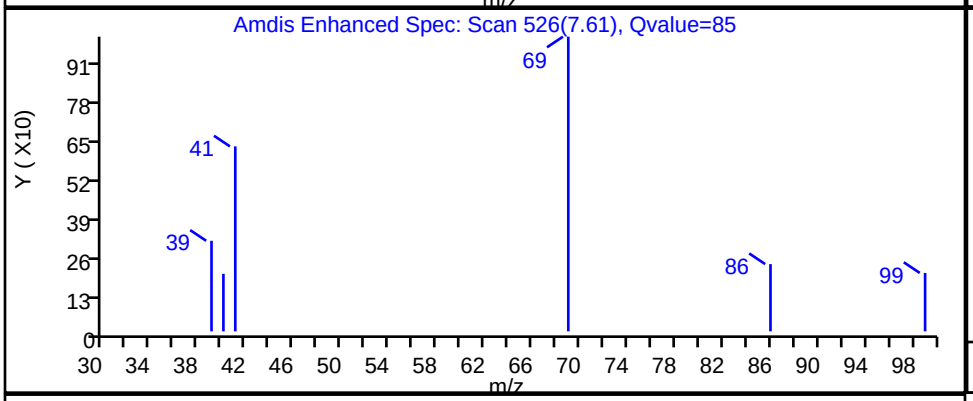
Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26860.D
Injection Date: 07-Feb-2020 19:45:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

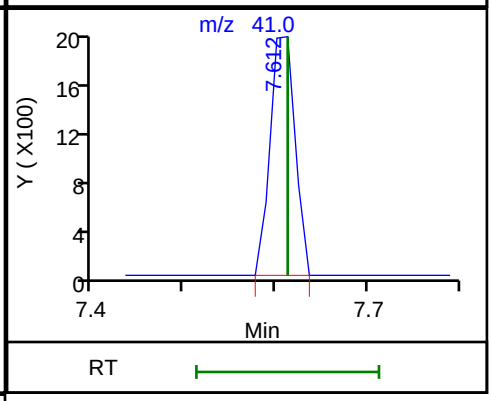
72 Ethyl methacrylate, CAS: 97-63-2

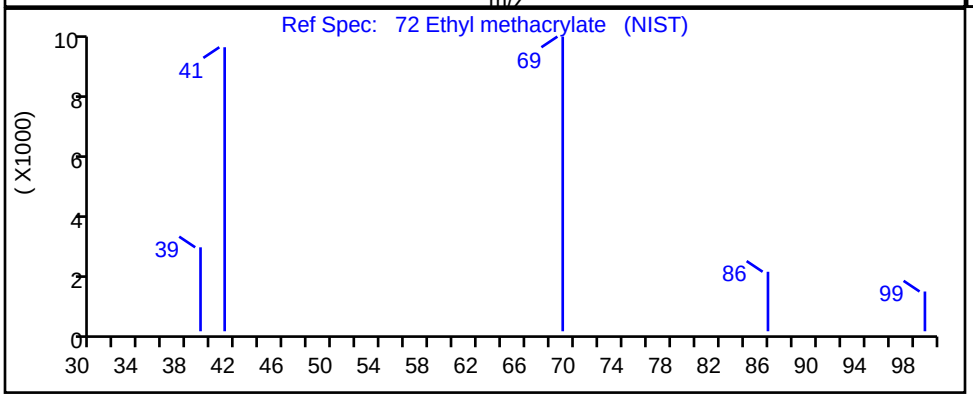
Processing Results











RT	Mass	Response	Amount
7.61	69.00	4585	0.544391
7.61	41.00	3768	

Reviewer: bosworthh, 10-Feb-2020 13:04:39
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

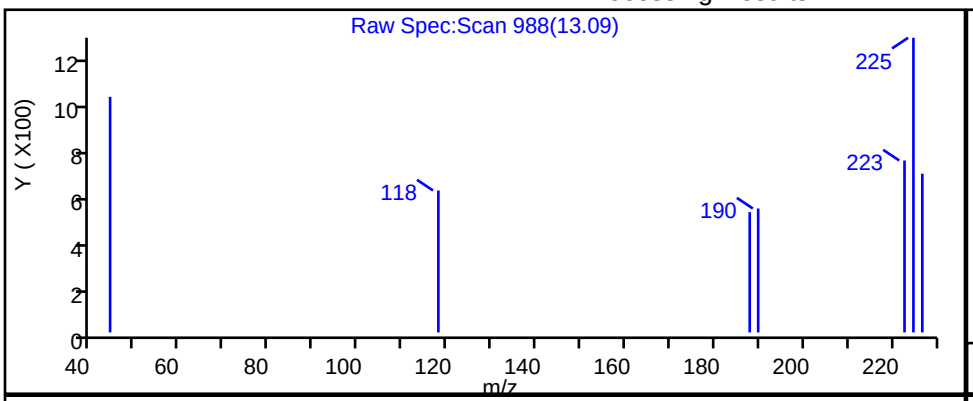
User Disabled Compound Report

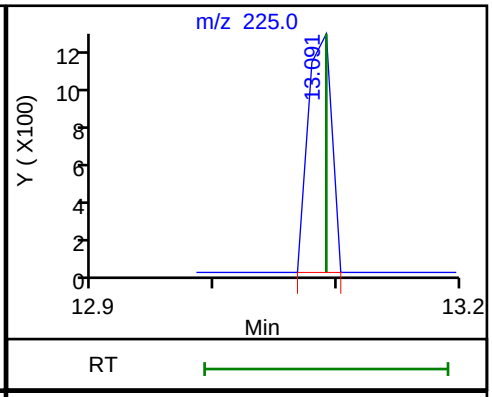
Eurofins TestAmerica, Canton

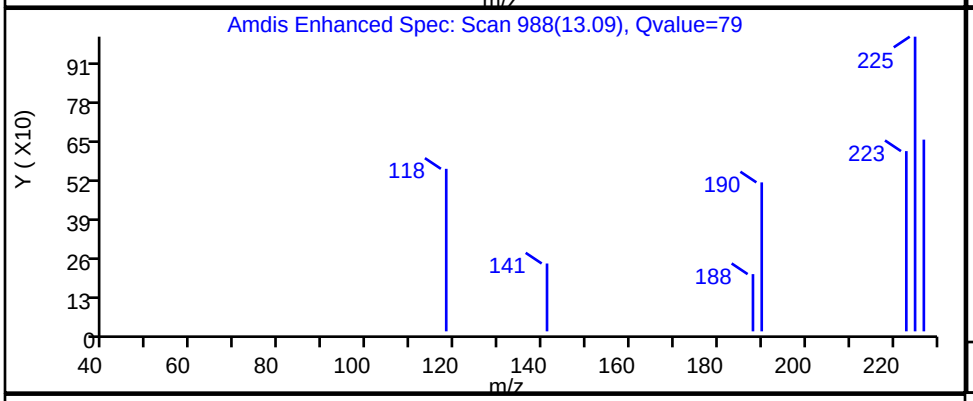
Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26860.D
Injection Date: 07-Feb-2020 19:45:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

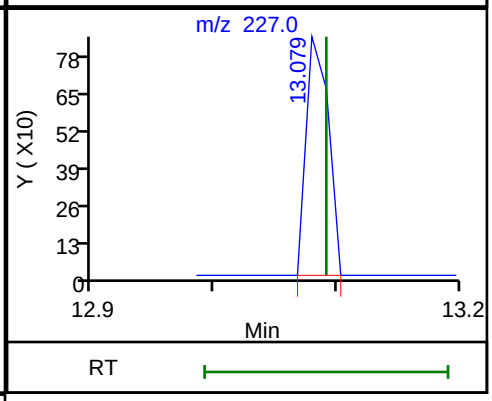
116 Hexachlorobutadiene, CAS: 87-68-3

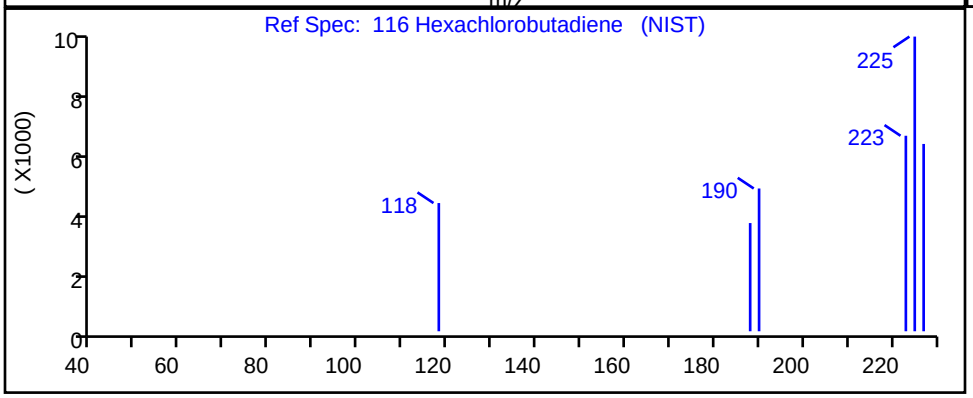
Processing Results











RT	Mass	Response	Amount
13.09	225.00	1641	0.609045
13.08	227.00	1072	

Reviewer: bosworthh, 10-Feb-2020 13:07:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

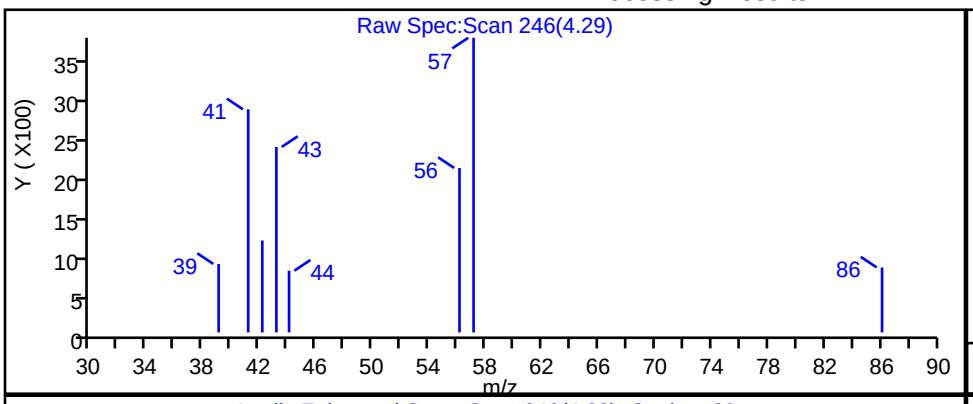
User Disabled Compound Report

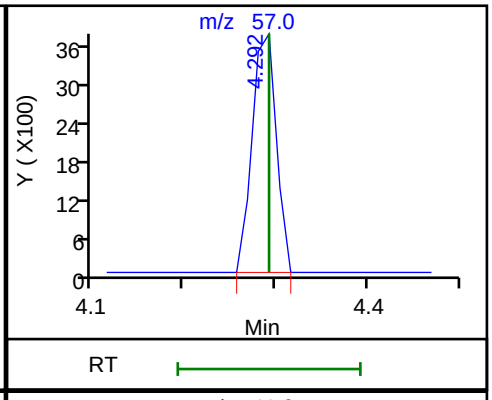
Eurofins TestAmerica, Canton

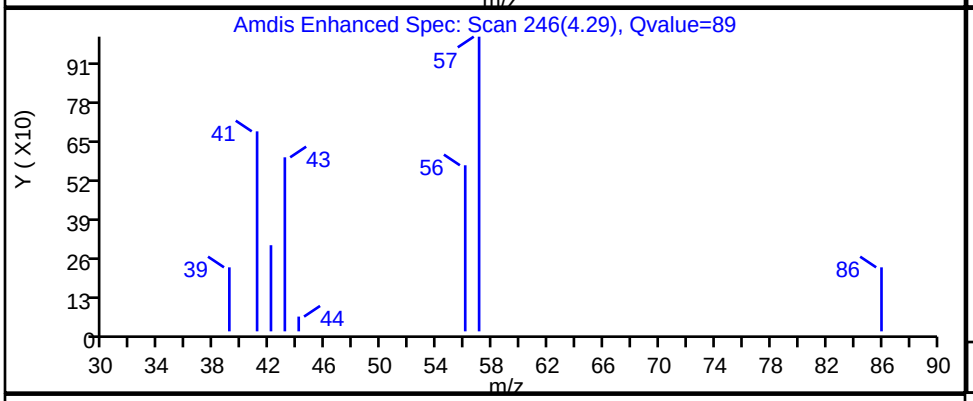
Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26860.D
Injection Date: 07-Feb-2020 19:45:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

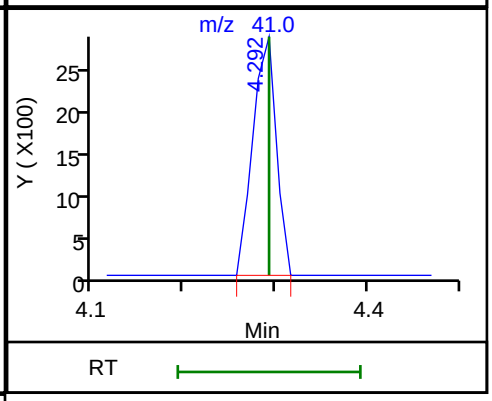
33 Hexane, CAS: 110-54-3

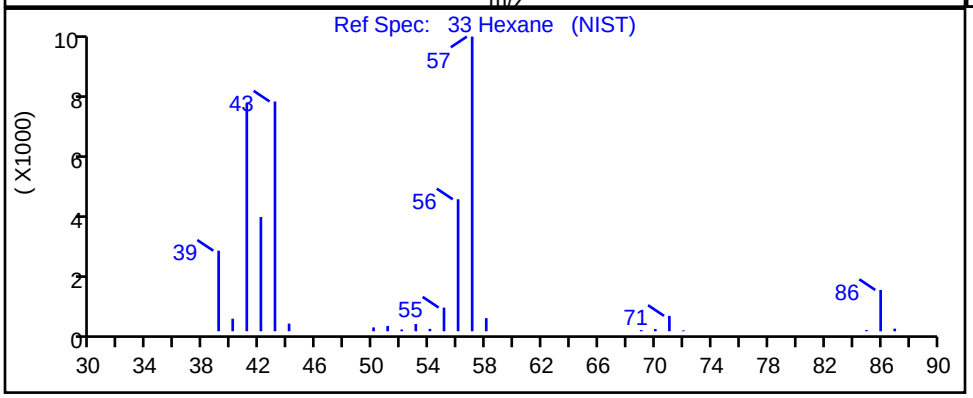
Processing Results











RT	Mass	Response	Amount
4.29	57.00	6918	0.564601
4.29	41.00	5079	

Reviewer: bosworthh, 10-Feb-2020 13:01:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

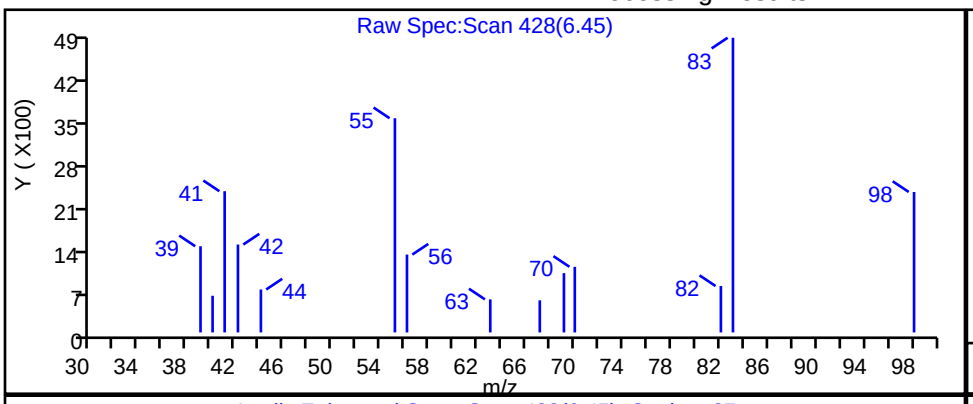
User Disabled Compound Report

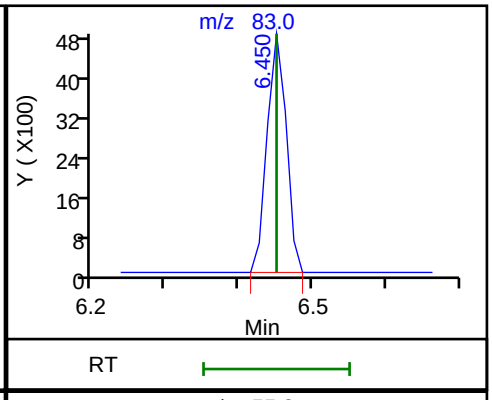
Eurofins TestAmerica, Canton

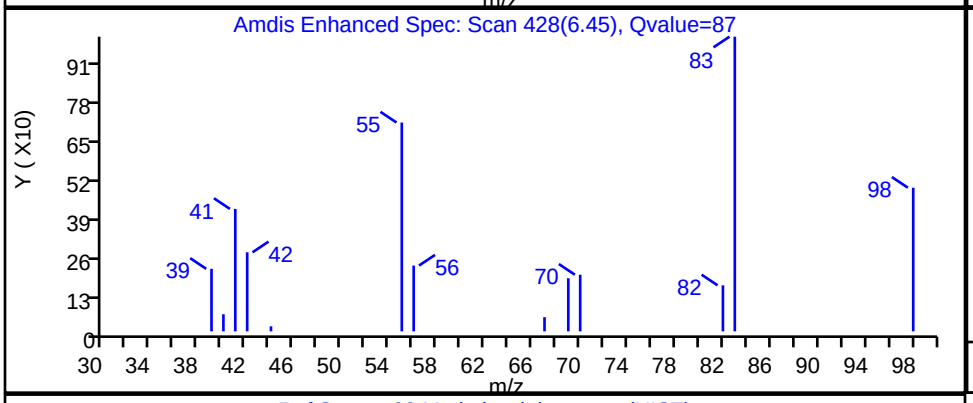
Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26860.D
Injection Date: 07-Feb-2020 19:45:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
Operator ID: 001765 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_16 Limit Group: MSV 8260C ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

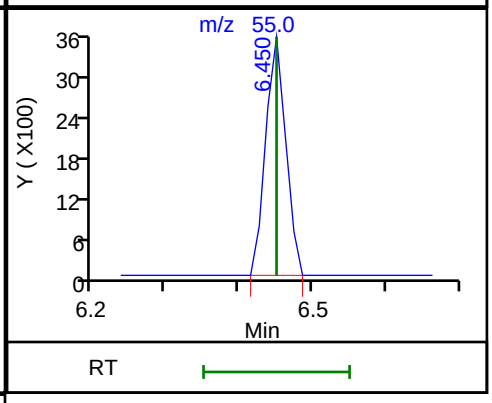
60 Methylcyclohexane, CAS: 108-87-2

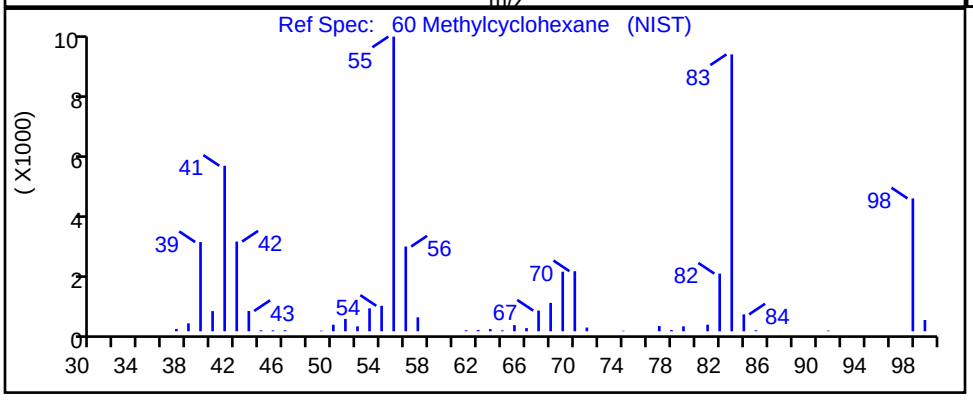
Processing Results











RT	Mass	Response	Amount
6.45	83.00	8905	0.606788
6.45	55.00	6777	

Reviewer: bosworthh, 10-Feb-2020 13:02:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

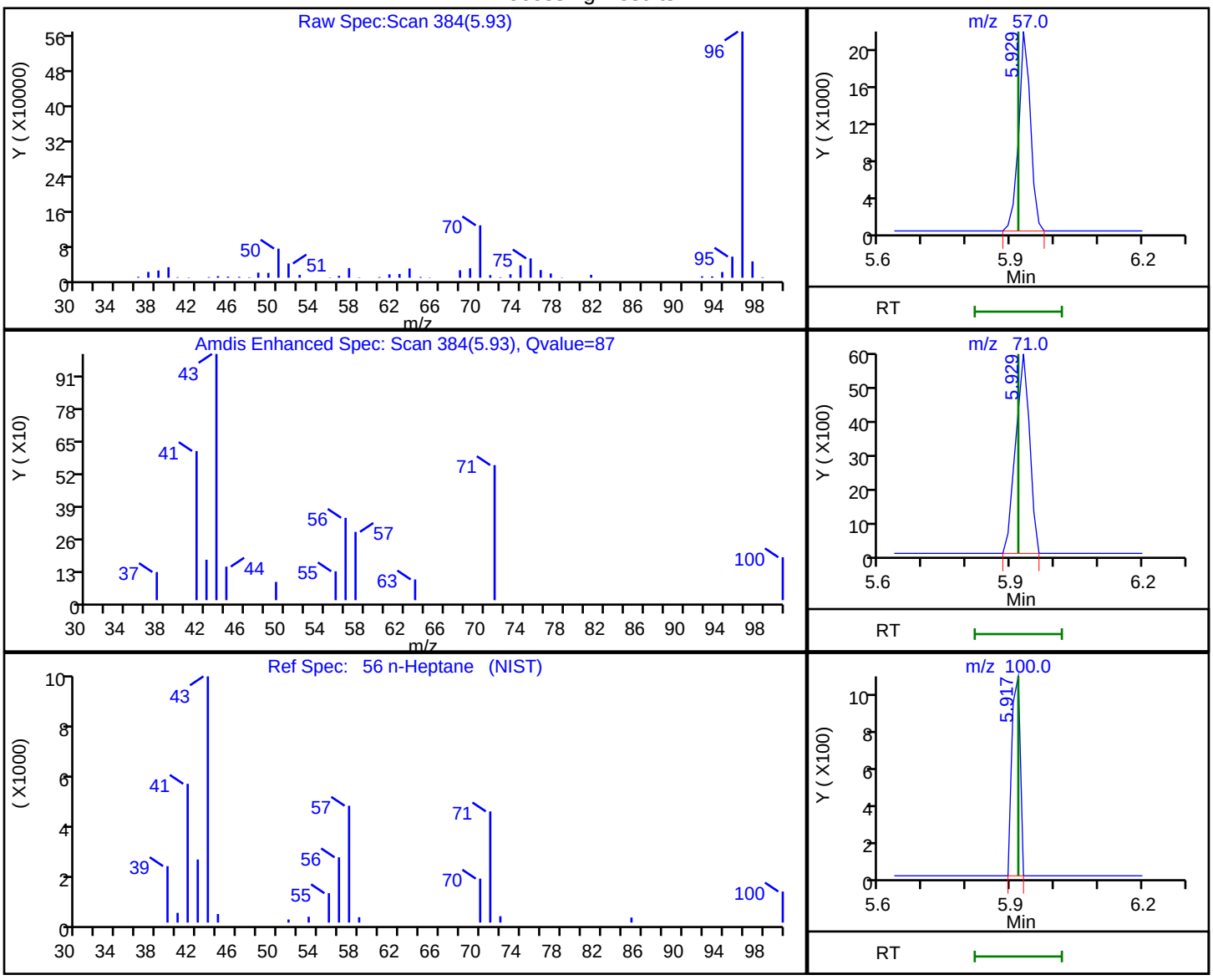
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26860.D				
Injection Date:	07-Feb-2020 19:45:30	Instrument ID:	A3UX16		
Lims ID:	std8260 L1				
Client ID:					
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		

56 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
5.93	57.00	41042	0.590354
5.93	71.00	13179	
5.92	100.00	1349	

Reviewer: bosworthh, 10-Feb-2020 13:10:19

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

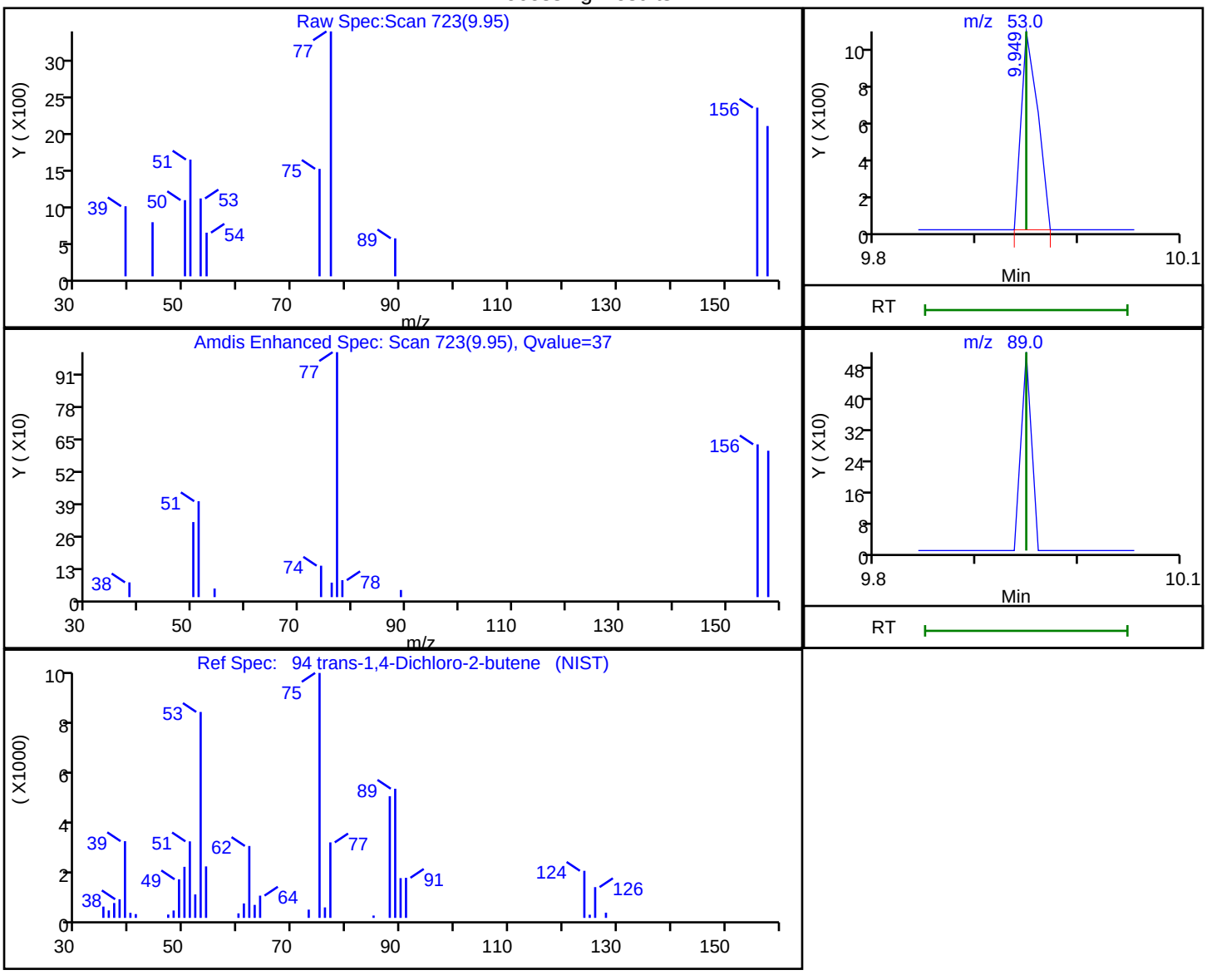
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26860.D
Injection Date: 07-Feb-2020 19:45:30 Instrument ID: A3UX16
Lims ID: std8260 L1
Client ID:
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

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

Processing Results



RT	Mass	Response	Amount
9.95	53.00	1196	0.505926
9.95	89.00	0	

Reviewer: bosworthh, 10-Feb-2020 13:06:44
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.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 21:24 Calibration End Date: 02/07/2020 23:28 Calibration ID: 55395

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-421991/25	UXM26869.D
Level 2	STDA9 240-421991/24	UXM26868.D
Level 3	STDA9 240-421991/23	UXM26867.D
Level 4	STDA9 240-421991/22	UXM26866.D
Level 5	STDA9 240-421991/21	UXM26865.D
Level 6	STDA9 240-421991/20	UXM26864.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	0.0336 0.0320	0.0381	0.0369	0.0349	0.0377	Ave		0.0355				6.9		20.0			
Diisopropyl ether	0.1626 0.2339	0.1897	0.2144	0.2046	0.2385	Ave		0.2073				13.7		20.0			
2-Chloro-1,3-butadiene	0.3176 0.4266	0.3303	0.3940	0.3812	0.4303	Ave		0.3800				12.5		20.0			
Ethyl-t-butyl ether (ETBE)	0.5497 0.7961	0.6229	0.7175	0.6960	0.8187	Ave		0.7002				14.6		20.0			
Ethyl acetate	+++++ 0.2206	0.1885	0.2256	0.2212	0.2588	Ave		0.2229				11.2		20.0			
Propionitrile	0.0290 0.0377	0.0371	0.0416	0.0395	0.0447	Ave		0.0383				13.9		20.0			
Methacrylonitrile	+++++ 0.1693	0.1330	0.1603	0.1560	0.1880	Ave		0.1613				12.4		20.0			
Isooctane	+++++ 0.8407	0.5973	0.6746	0.7182	0.8430	Ave		0.7348				14.6		20.0			
Tert-amyl-methyl ether (TAME)	+++++ 0.7541	0.5470	0.6433	0.6395	0.7675	Ave		0.6703				13.6		20.0			
n-Butanol	+++++ 0.0064	0.0031	0.0060	0.0064	0.0083	Ave		0.0060				31.0	*	20.0			
Ethyl acrylate	+++++ 0.2932	0.1934	0.2645	0.2720	0.3323	Ave		0.2711				18.7		20.0			
Methyl methacrylate	+++++ 0.2073	0.1420	0.1965	0.1951	0.2316	Ave		0.1945				16.9		20.0			
2-Nitropropane	+++++ 0.0687	0.0442	0.0627	0.0652	0.0785	Ave		0.0638				19.6		20.0			
n-Butyl acetate	+++++ 0.3085	0.2502	0.3004	0.3079	0.3596	Ave		0.3053				12.7		20.0			
1-Chlorohexane	0.4693 0.5664	0.4569	0.5192	0.5146	0.5819	Ave		0.5180				9.7		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
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 21:24 Calibration End Date: 02/07/2020 23:28 Calibration ID: 55395

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	+++++ 0.0246	0.0147	0.0217	0.0239	0.0310	Ave		0.0232				25.3	*	20.0			
Pentachloroethane	+++++ 0.1029	0.0983	0.0664	0.1303	0.0633	Ave		0.0922				30.2	*	20.0			
1,2,3-Trimethylbenzene	2.2502 3.4341	2.5003	2.7755	2.7619	3.3163	Ave		2.8397				16.2		20.0			
Benzyl chloride	+++++ 0.3230	0.1305	0.2250	0.2493	0.3217	Ave		0.2499				31.9	*	20.0			
1,3,5-Trichlorobenzene	0.7105 1.0192	0.8043	0.8474	0.8198	0.9900	Ave		0.8652				13.6		20.0			
2-Methylnaphthalene	+++++ 1.1130	0.9632	0.9533	0.9576	1.2162	Ave		1.0407				11.4		20.0			
1-Methylnaphthalene	0.6305 0.9659	0.9760	0.9011	0.8759	1.0918	Ave		0.9069				17.1		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 21:24 Calibration End Date: 02/07/2020 23:28 Calibration ID: 55395

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-421991/25	UXM26869.D
Level 2	STDA9 240-421991/24	UXM26868.D
Level 3	STDA9 240-421991/23	UXM26867.D
Level 4	STDA9 240-421991/22	UXM26866.D
Level 5	STDA9 240-421991/21	UXM26865.D
Level 6	STDA9 240-421991/20	UXM26864.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	8098 1550053	19370	206090	404692	919374	5.00 800	10.0	100	200	400
Diisopropyl ether	FB	Ave	3917 1134092	9640	119879	237275	581535	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloro-1,3-butadiene	FB	Ave	7650 2067864	16786	220300	442143	1049098	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl-t-butyl ether (ETBE)	FB	Ave	13240 3859510	31661	401204	807312	1995895	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl acetate	FB	Ave	+++++ 2139252	19164	252292	513095	1261602	+++++ 160	2.00	20.0	40.0	80.0
Propionitrile	FB	Ave	6977 1826878	18876	232702	457608	1089472	5.00 800	10.0	100	200	400
Methacrylonitrile	FB	Ave	+++++ 8207323	67578	896313	1808879	4582572	+++++ 800	10.0	100	200	400
Isooctane	FB	Ave	+++++ 4075751	30359	377202	832993	2055186	+++++ 80.0	1.00	10.0	20.0	40.0
Tert-amyl-methyl ether (TAME)	FB	Ave	+++++ 3655714	27803	359670	741719	1870917	+++++ 80.0	1.00	10.0	20.0	40.0
n-Butanol	FB	Ave	+++++ 781475	3944	83740	184964	506900	+++++ 2000	25.0	250	500	1000
Ethyl acrylate	FB	Ave	+++++ 1421417	9832	147909	315509	810058	+++++ 80.0	1.00	10.0	20.0	40.0
Methyl methacrylate	FB	Ave	+++++ 2009992	14433	219690	452560	1129263	+++++ 160	2.00	20.0	40.0	80.0
2-Nitropropane	FB	Ave	+++++ 665951	4496	70079	151140	382809	+++++ 160	2.00	20.0	40.0	80.0
n-Butyl acetate	FB	Ave	+++++ 1495401	12717	167972	357125	876523	+++++ 80.0	1.00	10.0	20.0	40.0
1-Chlorohexane	CBNZ d5	Ave	8043 1987333	16338	203054	414263	988737	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexanone	DCBd 4	Ave	+++++ 364976	2472	38898	87743	228540	+++++ 800	10.0	100	200	400

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 421991

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/07/2020 21:24 Calibration End Date: 02/07/2020 23:28 Calibration ID: 55395

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
Pentachloroethane	CBNZ d5	Ave	+++++ 722007	7033	51973	209792	215016	+++++ 160	2.00	20.0	40.0	80.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	18461 5098339	42104	496528	1012002	2445195	0.500 80.0	1.00	10.0	20.0	40.0
Benzyl chloride	DCBd 4	Ave	+++++ 479476	2198	40245	91342	237214	+++++ 80.0	1.00	10.0	20.0	40.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	5829 1513130	13545	151592	300376	729970	0.500 80.0	1.00	10.0	20.0	40.0
2-Methylnaphthalene	DCBd 4	Ave	+++++ 3304668	32439	341087	701786	1793424	+++++ 160	2.00	20.0	40.0	80.0
1-Methylnaphthalene	DCBd 4	Ave	10346 2867930	32870	322413	641859	1610000	1.00 160	2.00	20.0	40.0	80.0

Curve Type Legend:
Ave = Average ISTD

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26864.D
Lims ID: stdA9 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 07-Feb-2020 21:24:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-020
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:44 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 13:18:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.929	0.000	99	1211951	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	89	877247	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	371154	20.0	20.0	
25 Acetonitrile	41	3.628	3.628	0.000	99	1550053	800.0	720.0	
36 Isopropyl ether	87	4.458	4.458	0.000	94	1134092	80.0	90.3	
37 2-Chloro-1,3-butadiene	53	4.506	4.506	0.000	91	2067864	80.0	89.8	
38 Tert-butyl ethyl ether	59	4.766	4.767	-0.001	97	3859510	80.0	91.0	
43 Ethyl acetate	43	4.944	4.944	0.000	99	2139252	160.0	158.3	
42 Propionitrile	54	4.980	4.980	0.000	99	1826878	800.0	788.0	
44 Methacrylonitrile	41	5.110	5.110	0.000	89	8207323	800.0	839.7	
163 Isooctane	57	5.774	5.774	0.000	97	4075751	80.0	91.5	
55 Tert-amyl methyl ether	73	5.774	5.774	0.000	97	3655714	80.0	90.0	
57 n-Butanol	56	6.118	6.118	0.000	87	781475	2000.0	2132.4	
59 Ethyl acrylate	55	6.296	6.296	0.000	99	1421417	80.0	86.5	
62 Methyl methacrylate	41	6.498	6.498	0.000	90	2009992	160.0	170.5	
66 2-Nitropropane	41	6.889	6.889	0.000	96	665951	160.0	172.1	
77 n-Butyl acetate	43	8.039	8.039	0.000	95	1495401	80.0	80.8	
81 1-Chlorohexane	91	8.644	8.644	0.000	98	1987333	80.0	87.5	
91 Cyclohexanone	55	9.711	9.712	-0.001	93	364976	800.0	848.1	
103 Pentachloroethane	167	10.553	10.553	0.000	96	722007	160.0	178.4	
109 1,2,3-Trimethylbenzene	105	10.980	10.980	0.000	98	5098339	80.0	96.7	
110 Benzyl chloride	126	11.075	11.075	0.000	99	479476	80.0	103.4	
114 1,3,5-Trichlorobenzene	180	12.285	12.285	0.000	96	1513130	80.0	94.2	
119 2-Methylnaphthalene	142	14.692	14.692	0.000	93	3304668	160.0	171.1	
162 1-Methylnaphthalene	142	14.965	14.965	0.000	0	2867930	160.0	170.4	

Reagents:

VMRA9W_00332	Amount Added:	64.00	Units: uL
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL

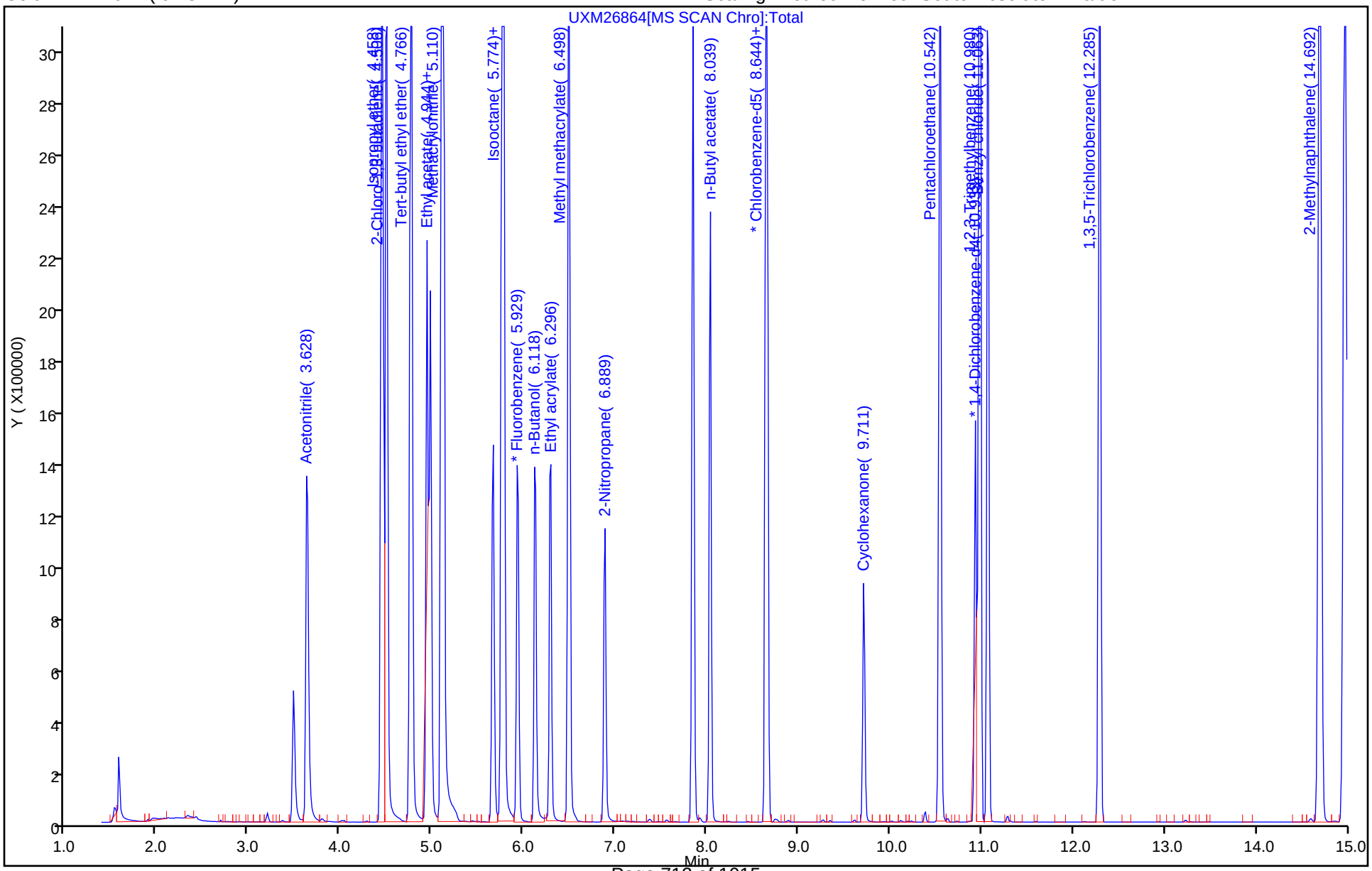
Report Date: 10-Feb-2020 13:40:45 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26864.D

Injection Date:	07-Feb-2020 21:24:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L6			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: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26865.D
Lims ID: stdA9 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 07-Feb-2020 21:49:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-021
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:47 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 13:19:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.929	0.000	99	1218900	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	89	849586	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	368663	20.0	20.0	
25 Acetonitrile	41	3.628	3.628	0.000	99	919374	400.0	424.6	
36 Isopropyl ether	87	4.458	4.458	0.000	94	581535	40.0	46.0	
37 2-Chloro-1,3-butadiene	53	4.506	4.506	0.000	92	1049098	40.0	45.3	
38 Tert-butyl ethyl ether	59	4.767	4.767	0.000	98	1995895	40.0	46.8	
43 Ethyl acetate	43	4.944	4.944	0.000	99	1261602	80.0	92.9	
42 Propionitrile	54	4.980	4.980	0.000	99	1089472	400.0	467.2	
44 Methacrylonitrile	41	5.110	5.110	0.000	91	4582572	400.0	466.2	
163 Isooctane	57	5.774	5.774	0.000	91	2055186	40.0	45.9	
55 Tert-amyl methyl ether	73	5.774	5.774	0.000	89	1870917	40.0	45.8	
57 n-Butanol	56	6.118	6.118	0.000	87	506900	1000.0	1375.3	
59 Ethyl acrylate	55	6.296	6.296	0.000	99	810058	40.0	49.0	
62 Methyl methacrylate	41	6.498	6.498	0.000	90	1129263	80.0	95.3	
66 2-Nitropropane	41	6.889	6.889	0.000	97	382809	80.0	98.4	
77 n-Butyl acetate	43	8.039	8.039	0.000	95	876523	40.0	47.1	
81 1-Chlorohexane	91	8.644	8.644	0.000	98	988737	40.0	44.9	
91 Cyclohexanone	55	9.712	9.712	0.000	93	228540	400.0	534.6	
103 Pentachloroethane	167	10.553	10.553	0.000	93	215016	80.0	54.9	
109 1,2,3-Trimethylbenzene	105	10.980	10.980	0.000	99	2445195	40.0	46.7	
110 Benzyl chloride	126	11.075	11.075	0.000	99	237214	40.0	51.5	
114 1,3,5-Trichlorobenzene	180	12.285	12.285	0.000	96	729970	40.0	45.8	
119 2-Methylnaphthalene	142	14.692	14.692	0.000	93	1793424	80.0	93.5	
162 1-Methylnaphthalene	142	14.965	14.965	0.000	0	1610000	80.0	96.3	

Reagents:

VMRA9W_00332	Amount Added: 32.00	Units: uL
vm50is_stk_a_00006	Amount Added: 2.00	Units: uL

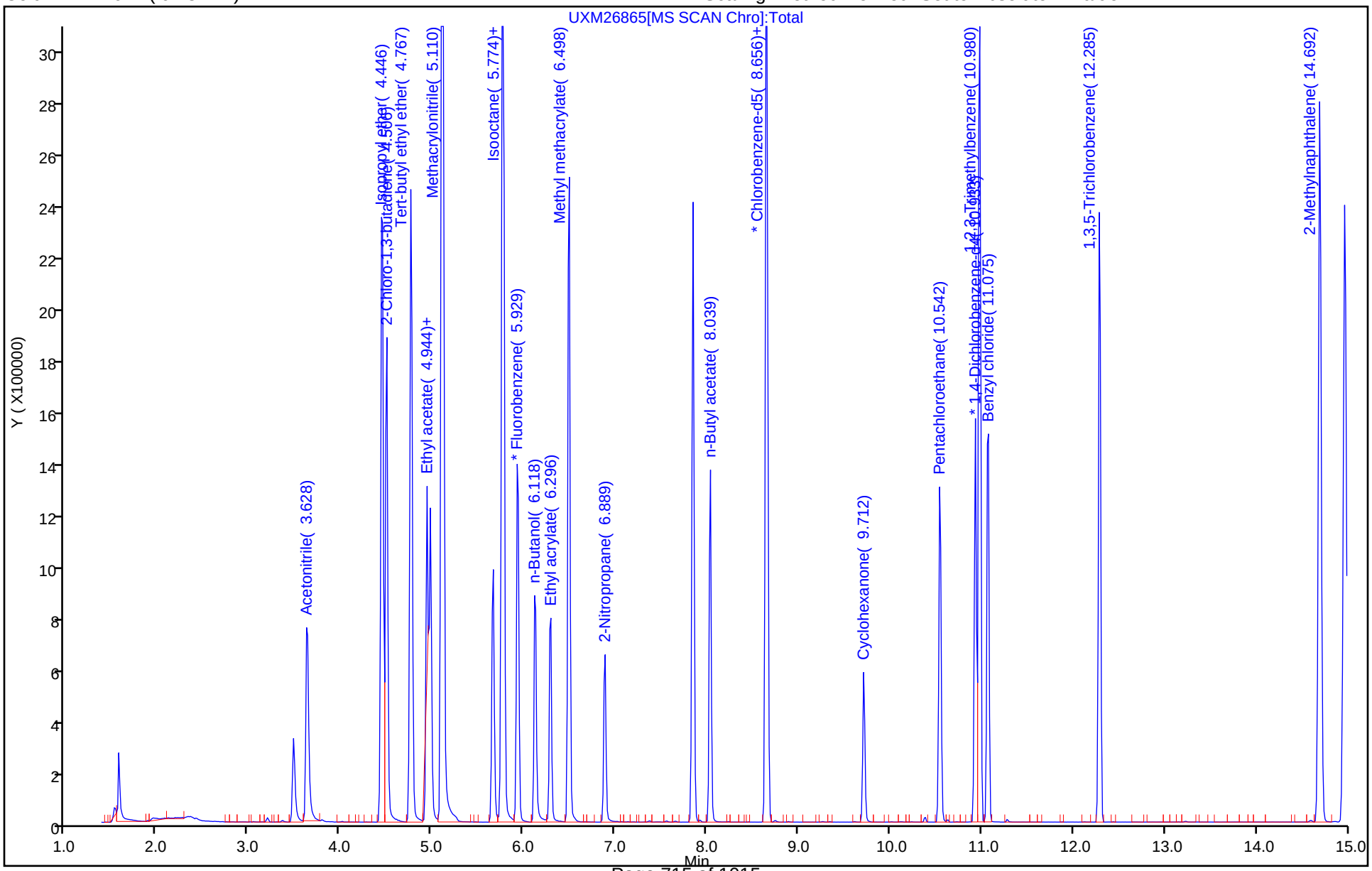
Report Date: 10-Feb-2020 13:40:48 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26865.D

Injection Date:	07-Feb-2020 21:49:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L5			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: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26866.D
Lims ID: stdA9 L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 07-Feb-2020 22:14:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-022
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:50 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 13:19:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.929	0.000	99	1159880	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	89	804999	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	366417	20.0	20.0	
25 Acetonitrile	41	3.628	3.628	0.000	99	404692	200.0	196.4	
36 Isopropyl ether	87	4.458	4.458	0.000	93	237275	20.0	19.7	
37 2-Chloro-1,3-butadiene	53	4.506	4.506	0.000	92	442143	20.0	20.1	
38 Tert-butyl ethyl ether	59	4.766	4.767	-0.001	98	807312	20.0	19.9	
43 Ethyl acetate	43	4.944	4.944	0.000	99	513095	40.0	39.7	
42 Propionitrile	54	4.980	4.980	0.000	99	457608	200.0	206.2	
44 Methacrylonitrile	41	5.110	5.110	0.000	91	1808879	200.0	193.4	
163 Isooctane	57	5.774	5.774	0.000	97	832993	20.0	19.5	
55 Tert-amyl methyl ether	73	5.774	5.774	0.000	99	741719	20.0	19.1	
57 n-Butanol	56	6.130	6.118	0.012	88	184964	500.0	527.4	
59 Ethyl acrylate	55	6.296	6.296	0.000	99	315509	20.0	20.1	
62 Methyl methacrylate	41	6.498	6.498	0.000	90	452560	40.0	40.1	
66 2-Nitropropane	41	6.889	6.889	0.000	99	151140	40.0	40.8	
77 n-Butyl acetate	43	8.039	8.039	0.000	95	357125	20.0	20.2	
81 1-Chlorohexane	91	8.644	8.644	0.000	98	414263	20.0	19.9	
91 Cyclohexanone	55	9.711	9.712	-0.001	93	87743	200.0	206.5	
103 Pentachloroethane	167	10.553	10.553	0.000	94	209792	40.0	56.5	
109 1,2,3-Trimethylbenzene	105	10.980	10.980	0.000	98	1012002	20.0	19.5	
110 Benzyl chloride	126	11.075	11.075	0.000	99	91342	20.0	20.0	
114 1,3,5-Trichlorobenzene	180	12.285	12.285	0.000	95	300376	20.0	18.9	
119 2-Methylnaphthalene	142	14.692	14.692	0.000	92	701786	40.0	36.8	
162 1-Methylnaphthalene	142	14.965	14.965	0.000	0	641859	40.0	38.6	

Reagents:

VMRA9W_00332	Amount Added: 16.00	Units: uL
vm50is_stk_a_00006	Amount Added: 2.00	Units: uL

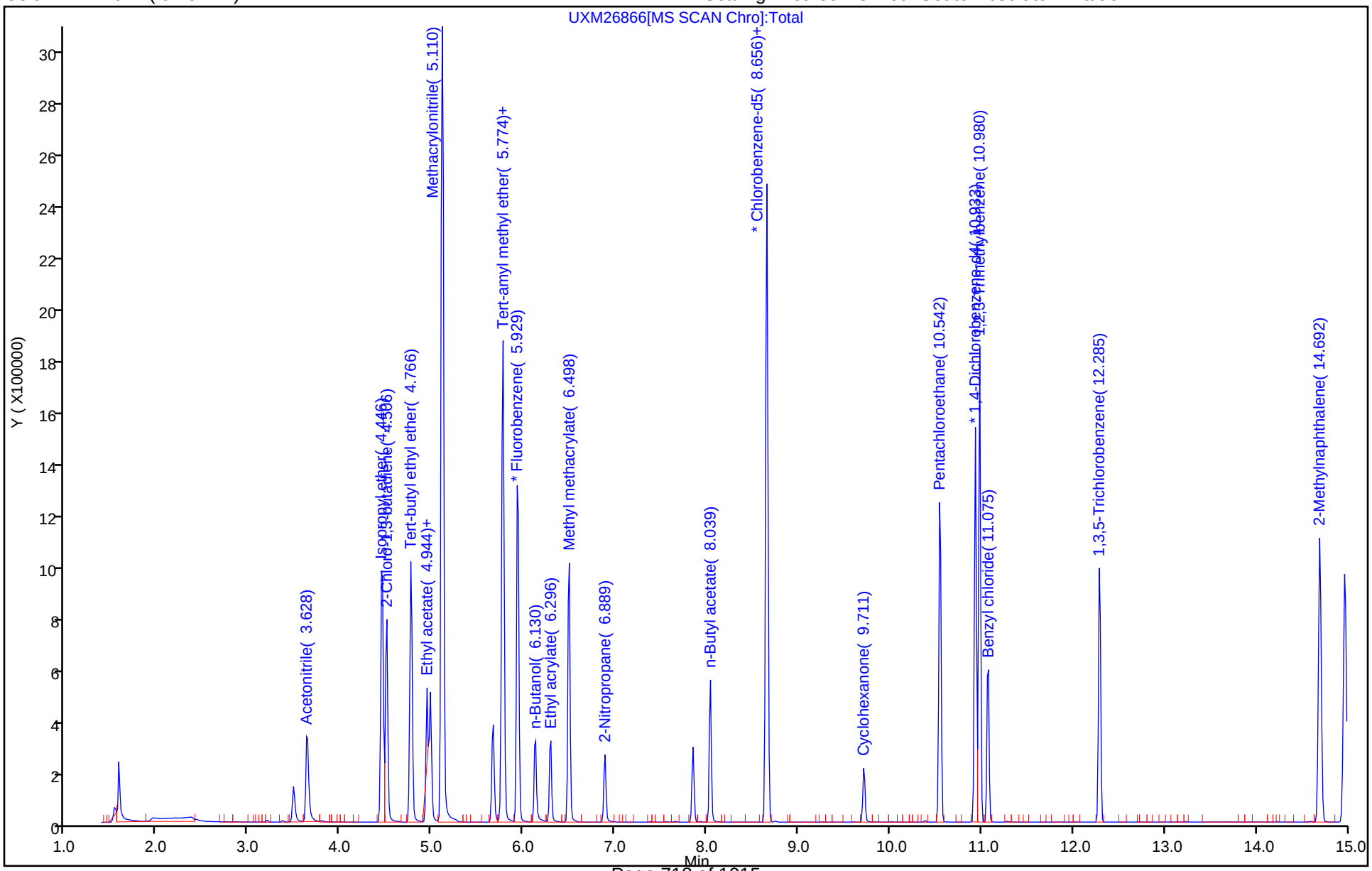
Report Date: 10-Feb-2020 13:40:50 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26866.D

Injection Date:	07-Feb-2020 22:14:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L4			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: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26867.D
Lims ID: stdA9 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-Feb-2020 22:39:30 ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-023
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:53 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 13:19:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.929	0.000	99	1118281	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	92	782235	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	357788	20.0	20.0	
25 Acetonitrile	41	3.640	3.628	0.012	99	206090	100.0	103.7	
36 Isopropyl ether	87	4.458	4.458	0.000	94	119879	10.0	10.3	
37 2-Chloro-1,3-butadiene	53	4.506	4.506	0.000	92	220300	10.0	10.4	
38 Tert-butyl ethyl ether	59	4.766	4.767	-0.001	98	401204	10.0	10.2	
43 Ethyl acetate	43	4.944	4.944	0.000	99	252292	20.0	20.2	
42 Propionitrile	54	4.980	4.980	0.000	99	232702	100.0	108.8	
44 Methacrylonitrile	41	5.110	5.110	0.000	91	896313	100.0	99.4	
163 Isooctane	57	5.774	5.774	0.000	89	377202	10.0	9.18	
55 Tert-amyl methyl ether	73	5.774	5.774	0.000	88	359670	10.0	9.60	
57 n-Butanol	56	6.130	6.118	0.012	88	83740	250.0	247.6	
59 Ethyl acrylate	55	6.296	6.296	0.000	99	147909	10.0	9.76	
62 Methyl methacrylate	41	6.498	6.498	0.000	90	219690	20.0	20.2	
66 2-Nitropropane	41	6.889	6.889	0.000	99	70079	20.0	19.6	
77 n-Butyl acetate	43	8.039	8.039	0.000	96	167972	10.0	9.84	
81 1-Chlorohexane	91	8.644	8.644	0.000	97	203054	10.0	10.0	
91 Cyclohexanone	55	9.711	9.712	-0.001	91	38898	100.0	93.8	
103 Pentachloroethane	167	10.553	10.553	0.000	87	51973	20.0	14.4	
109 1,2,3-Trimethylbenzene	105	10.980	10.980	0.000	98	496528	10.0	9.77	
110 Benzyl chloride	126	11.075	11.075	0.000	99	40245	10.0	9.00	
114 1,3,5-Trichlorobenzene	180	12.285	12.285	0.000	95	151592	10.0	9.79	
119 2-Methylnaphthalene	142	14.692	14.692	0.000	92	341087	20.0	18.3	
162 1-Methylnaphthalene	142	14.965	14.965	0.000	0	322413	20.0	19.9	

Reagents:

VMRA9W_00332	Amount Added:	8.00	Units: uL
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL

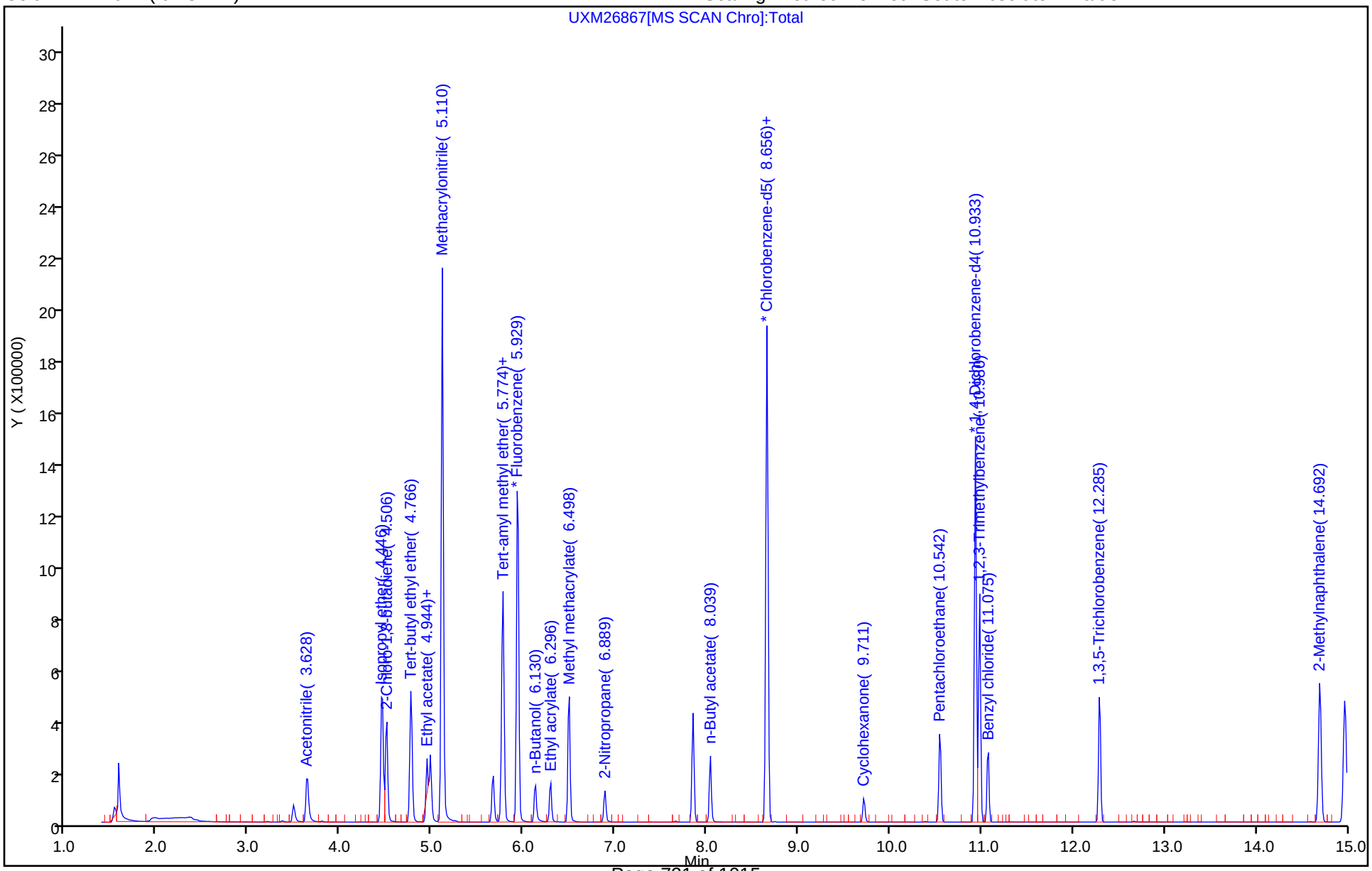
Report Date: 10-Feb-2020 13:40:53 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26867.D

Injection Date:	07-Feb-2020 22:39:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L3			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: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26868.D
Lims ID: stdA9 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-Feb-2020 23:03:30 ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-024
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:55 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 13:20:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.929	-0.001	99	1016554	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	88	715198	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	336795	20.0	20.0	
25 Acetonitrile	41	3.640	3.628	0.012	99	19370	10.0	10.7	
36 Isopropyl ether	87	4.458	4.458	0.000	93	9640	1.00	0.9149	
37 2-Chloro-1,3-butadiene	53	4.505	4.506	-0.001	92	16786	1.00	0.8691	
38 Tert-butyl ethyl ether	59	4.766	4.767	-0.001	97	31661	1.00	0.8896	
43 Ethyl acetate	43	4.944	4.944	0.000	99	19164	2.00	1.69	
42 Propionitrile	54	4.980	4.980	0.000	98	18876	10.0	9.71	
44 Methacrylonitrile	41	5.110	5.110	0.000	91	67578	10.0	8.24	
163 Isooctane	57	5.774	5.774	0.000	97	30359	1.00	0.8129	
55 Tert-amyl methyl ether	73	5.774	5.774	0.000	94	27803	1.00	0.8161	
57 n-Butanol	56	6.130	6.118	0.012	85	3944	25.0	12.8	
59 Ethyl acrylate	55	6.296	6.296	0.000	95	9832	1.00	0.7135	
62 Methyl methacrylate	41	6.498	6.498	0.000	88	14433	2.00	1.46	
66 2-Nitropropane	41	6.877	6.889	-0.012	97	4496	2.00	1.39	
77 n-Butyl acetate	43	8.039	8.039	0.000	96	12717	1.00	0.8195	
81 1-Chlorohexane	91	8.644	8.644	0.000	91	16338	1.00	0.8820	
91 Cyclohexanone	55	9.711	9.712	-0.001	20	2472	10.0	6.33	
103 Pentachloroethane	167	10.541	10.553	-0.012	76	7033	2.00	2.13	
109 1,2,3-Trimethylbenzene	105	10.980	10.980	0.000	99	42104	1.00	0.8805	
110 Benzyl chloride	126	11.075	11.075	0.000	97	2198	1.00	0.5223	
114 1,3,5-Trichlorobenzene	180	12.296	12.285	0.011	93	13545	1.00	0.9297	
119 2-Methylnaphthalene	142	14.692	14.692	0.000	91	32439	2.00	1.85	
162 1-Methylnaphthalene	142	14.965	14.965	0.000	0	32870	2.00	2.15	

Reagents:

VMRA9W_00332	Amount Added:	0.80	Units: uL
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL

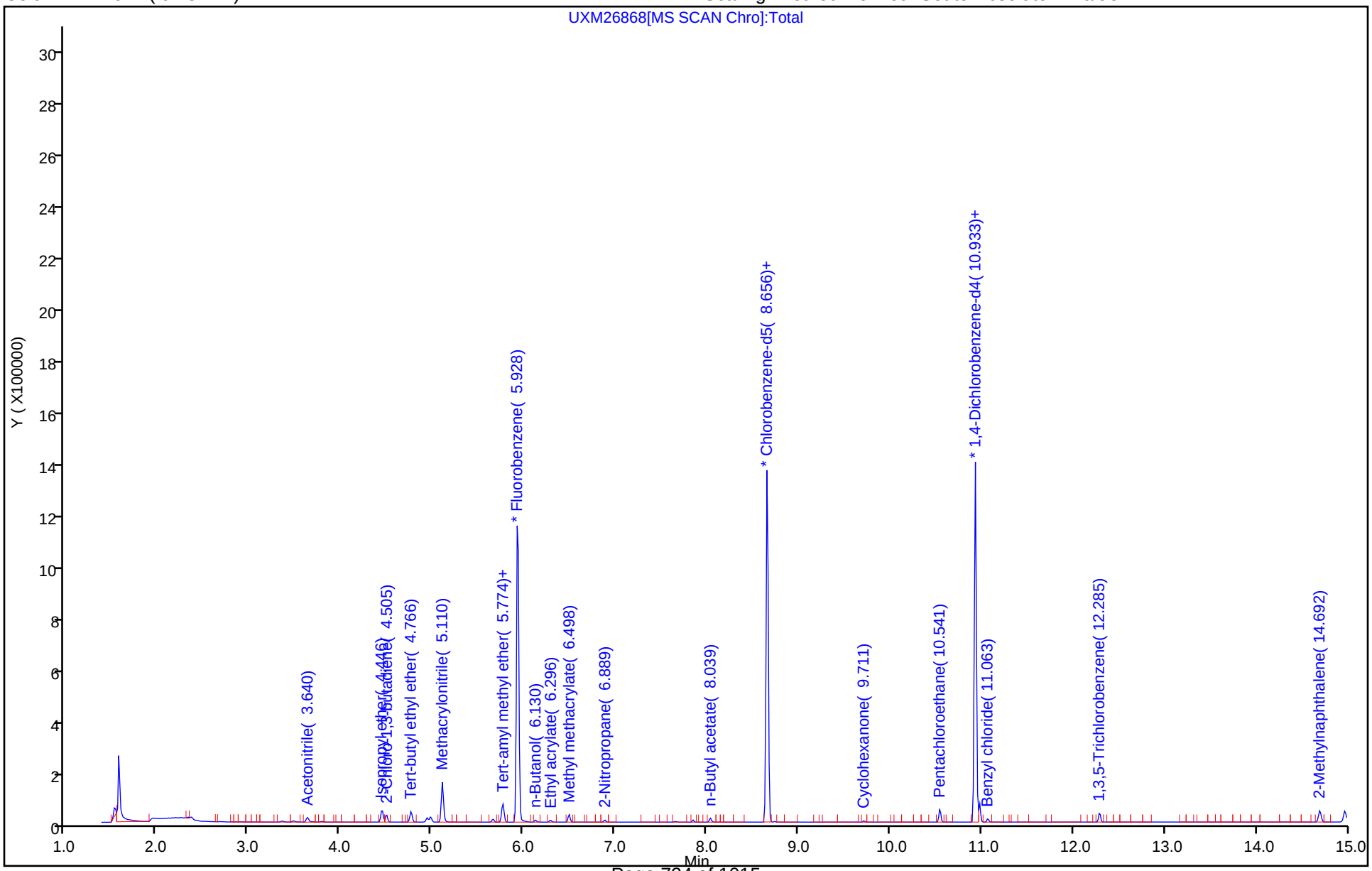
Report Date: 10-Feb-2020 13:40:56 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26868.D

Injection Date:	07-Feb-2020 23:03:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L2			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



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D
Lims ID: stdA9 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-Feb-2020 23:28:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-025
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:58 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 08:56:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.929	-0.001	99	963382	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	87	685574	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	328161	20.0	20.0	
25 Acetonitrile	41	3.640	3.628	0.012	98	8098	5.00	4.73	
36 Isopropyl ether	87	4.458	4.458	0.000	91	3917	0.5000	0.3923	
37 2-Chloro-1,3-butadiene	53	4.505	4.506	-0.001	89	7650	0.5000	0.4179	
38 Tert-butyl ethyl ether	59	4.766	4.767	-0.001	96	13240	0.5000	0.3926	
43 Ethyl acetate	43		4.944				ND	ND	U
42 Propionitrile	54	4.980	4.980	0.000	97	6977	5.00	3.79	
44 Methacrylonitrile	41		5.110				ND	ND	U
163 Isooctane	57		5.774				ND	ND	U
55 Tert-amyl methyl ether	73		5.774				ND	ND	U
57 n-Butanol	56		6.118				ND	ND	Ua
59 Ethyl acrylate	55		6.296				ND	ND	U
62 Methyl methacrylate	41		6.498				ND	ND	U
66 2-Nitropropane	41		6.889				ND	ND	U
77 n-Butyl acetate	43		8.039				ND	ND	U
81 1-Chlorohexane	91	8.656	8.644	0.012	34	8043	0.5000	0.4529	
91 Cyclohexanone	55		9.712				ND	ND	U
103 Pentachloroethane	167		10.553				ND	ND	
109 1,2,3-Trimethylbenzene	105	10.980	10.980	0.000	98	18461	0.5000	0.3962	
110 Benzyl chloride	126		11.075				ND	ND	
114 1,3,5-Trichlorobenzene	180	12.285	12.285	0.000	94	5829	0.5000	0.4106	
119 2-Methylnaphthalene	142		14.692				ND	ND	U
162 1-Methylnaphthalene	142	14.965	14.965	0.000	0	10346	1.00	0.6953	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

VMRA9W_00332	Amount Added:	0.40	Units: uL
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL

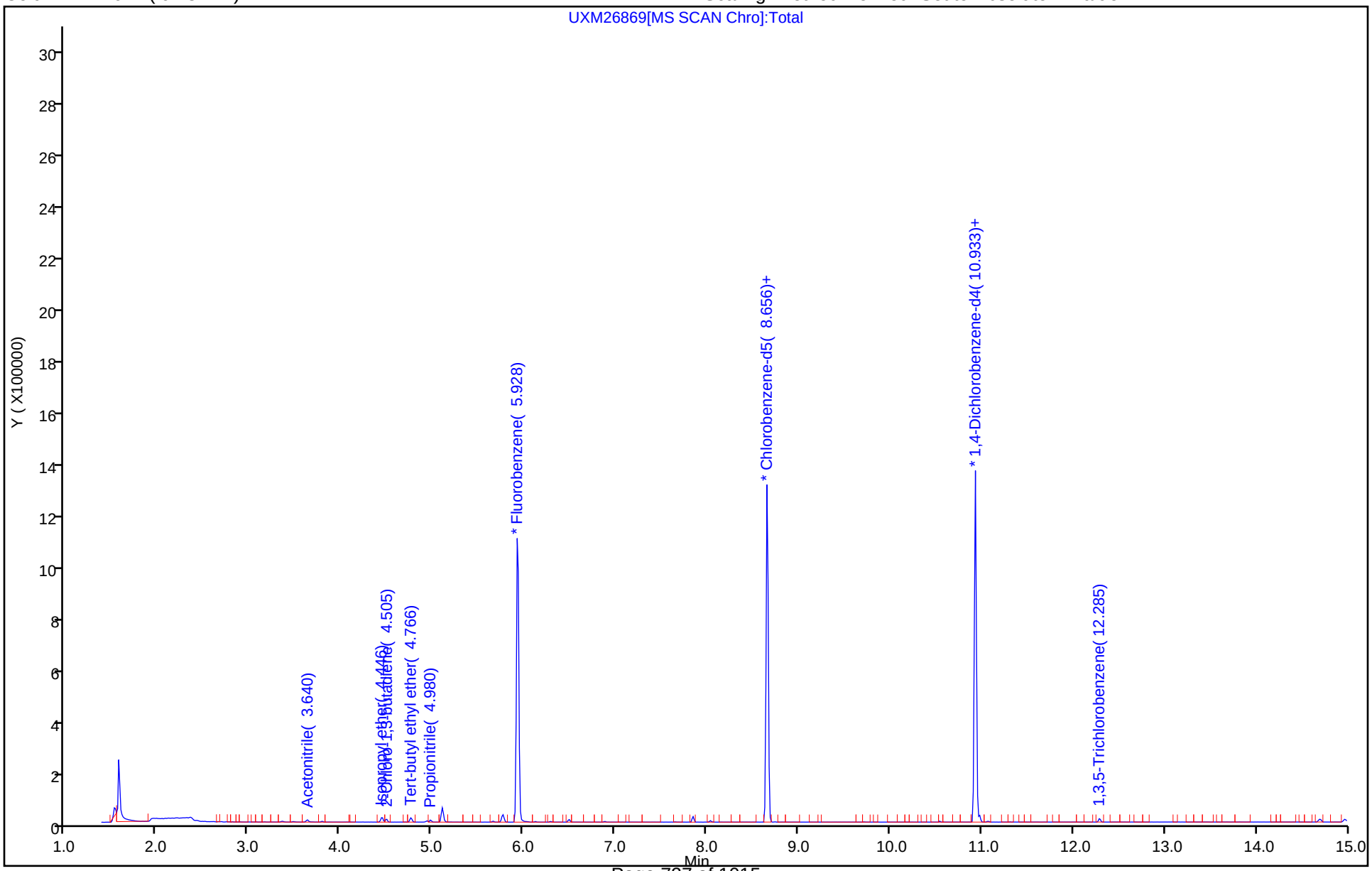
Report Date: 10-Feb-2020 13:40:59 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Injection Date:	07-Feb-2020 23:28:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	stdA9 L1			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



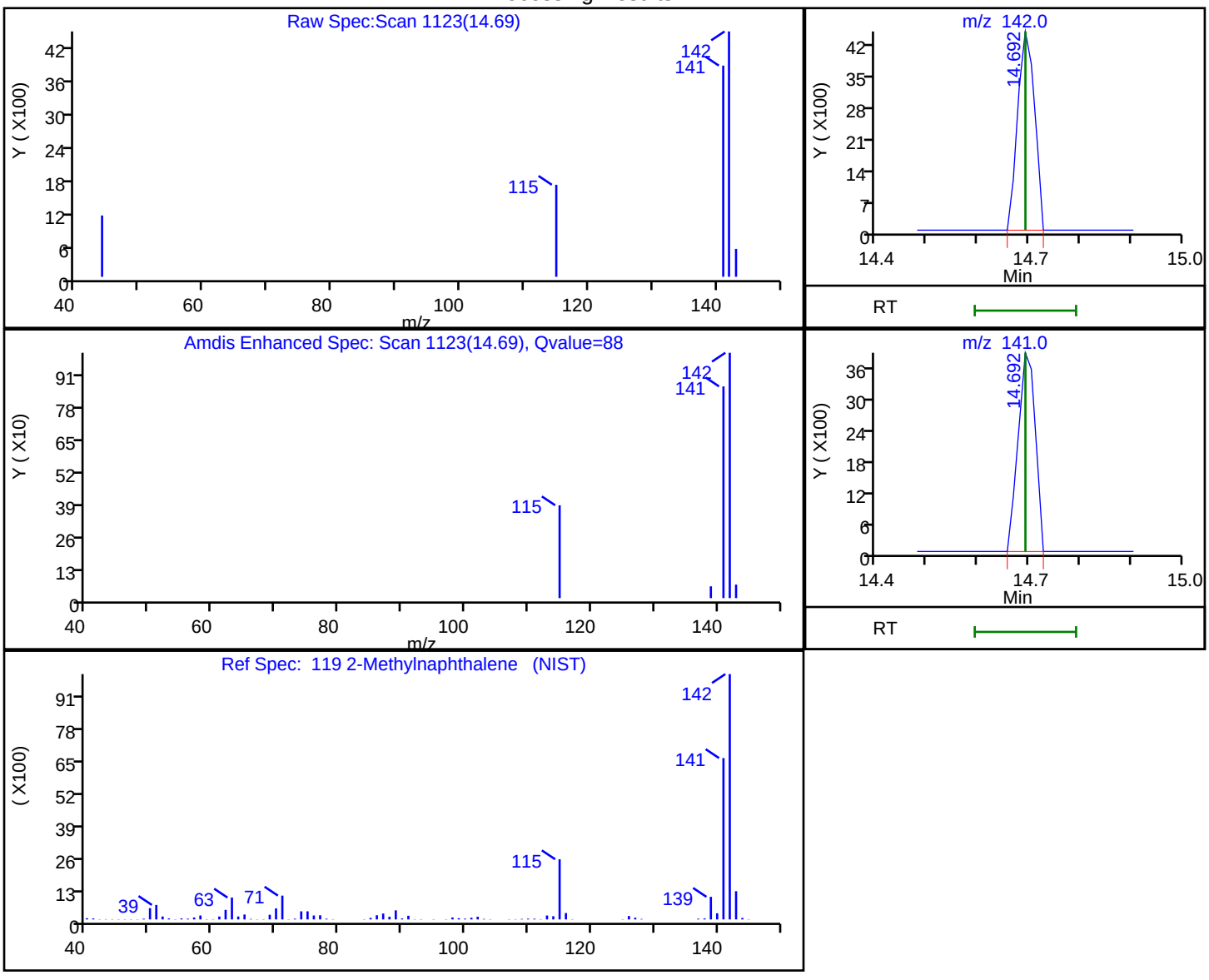
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D				
Injection Date:	07-Feb-2020 23:28:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
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		

119 2-Methylnaphthalene, CAS: 91-57-6

Processing Results



RT	Mass	Response	Amount
14.69	142.00	10315	1.052598
14.69	141.00	9010	

Reviewer: bosworthh, 10-Feb-2020 13:23:56

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

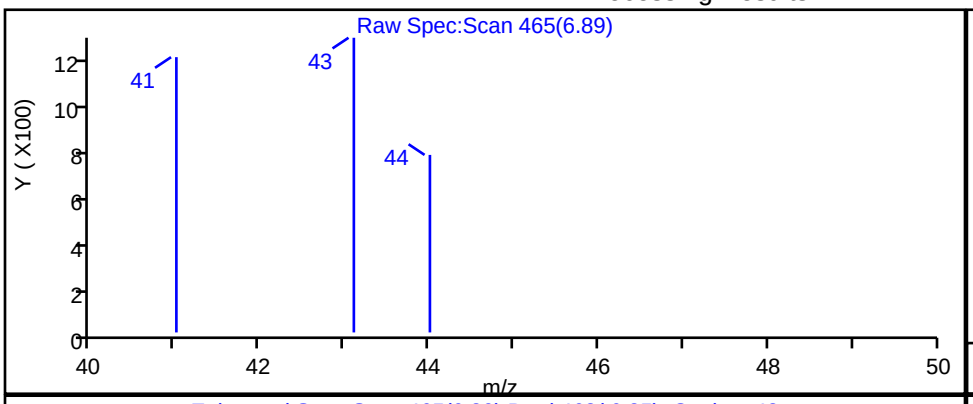
User Disabled Compound Report

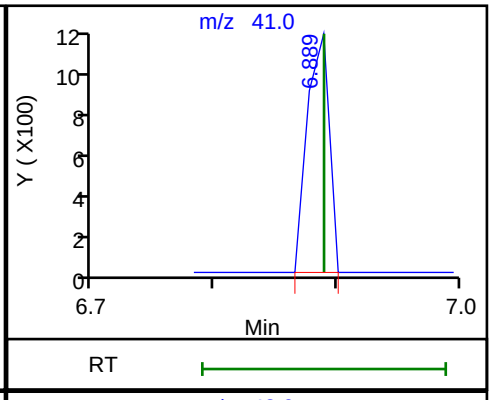
Eurofins TestAmerica, Canton

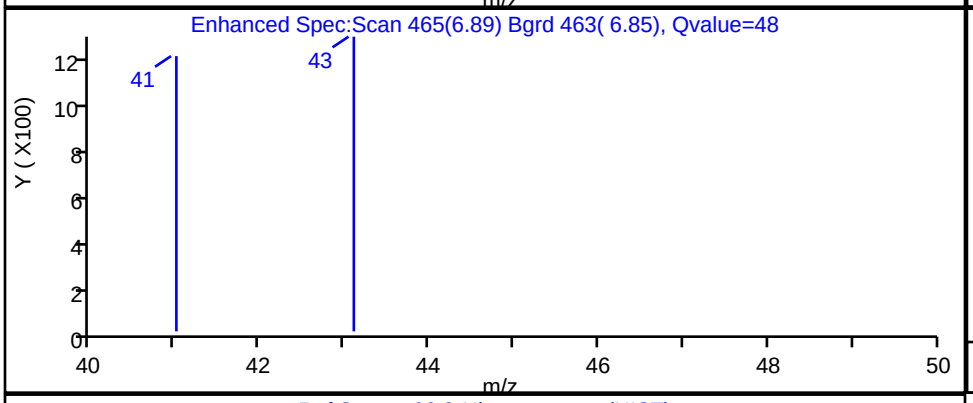
Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D				
Injection Date:	07-Feb-2020 23:28:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

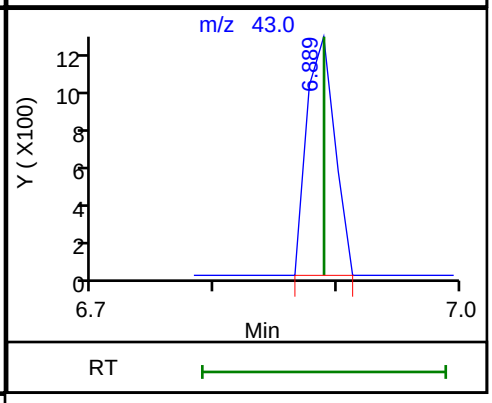
66 2-Nitropropane, CAS: 79-46-9

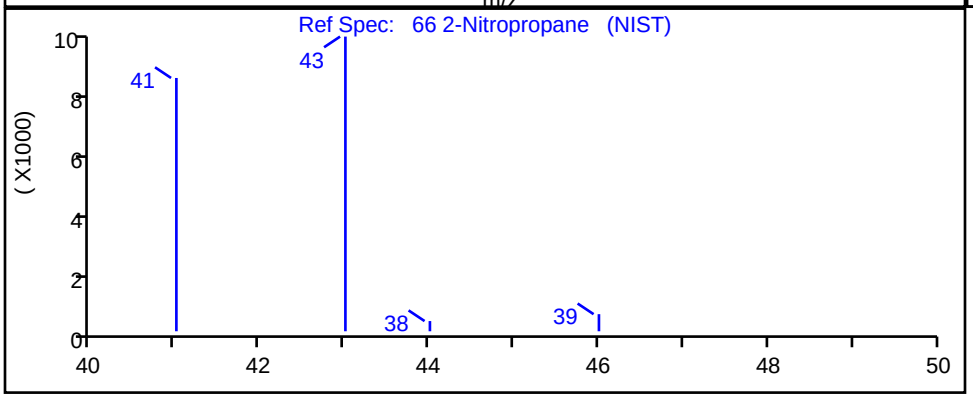
Processing Results











RT	Mass	Response	Amount
6.89	41.00	1440	1.103614
6.89	43.00	1954	

Reviewer: bosworthh, 10-Feb-2020 13:22:23

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

Report Date: 10-Feb-2020 13:40:59 Chrom Revision: 2.3 15-Dec-2019 06:20:02

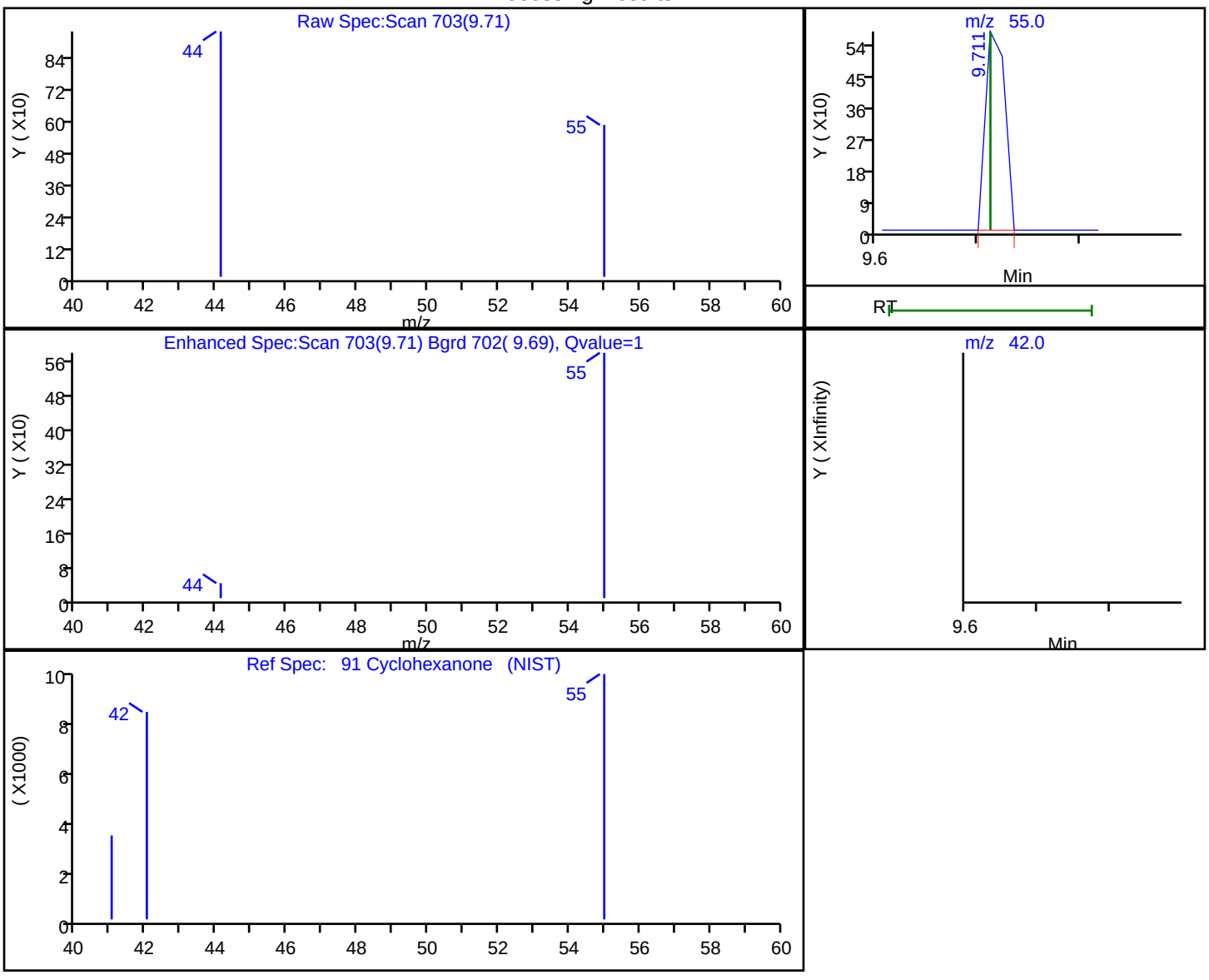
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D				
Injection Date:	07-Feb-2020 23:28:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
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		

91 Cyclohexanone, CAS: 108-94-1

Processing Results



RT	Mass	Response	Amount
9.71	55.00	769	2.243839
9.71	42.00	0	

Reviewer: bosworthh, 10-Feb-2020 13:23:09

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

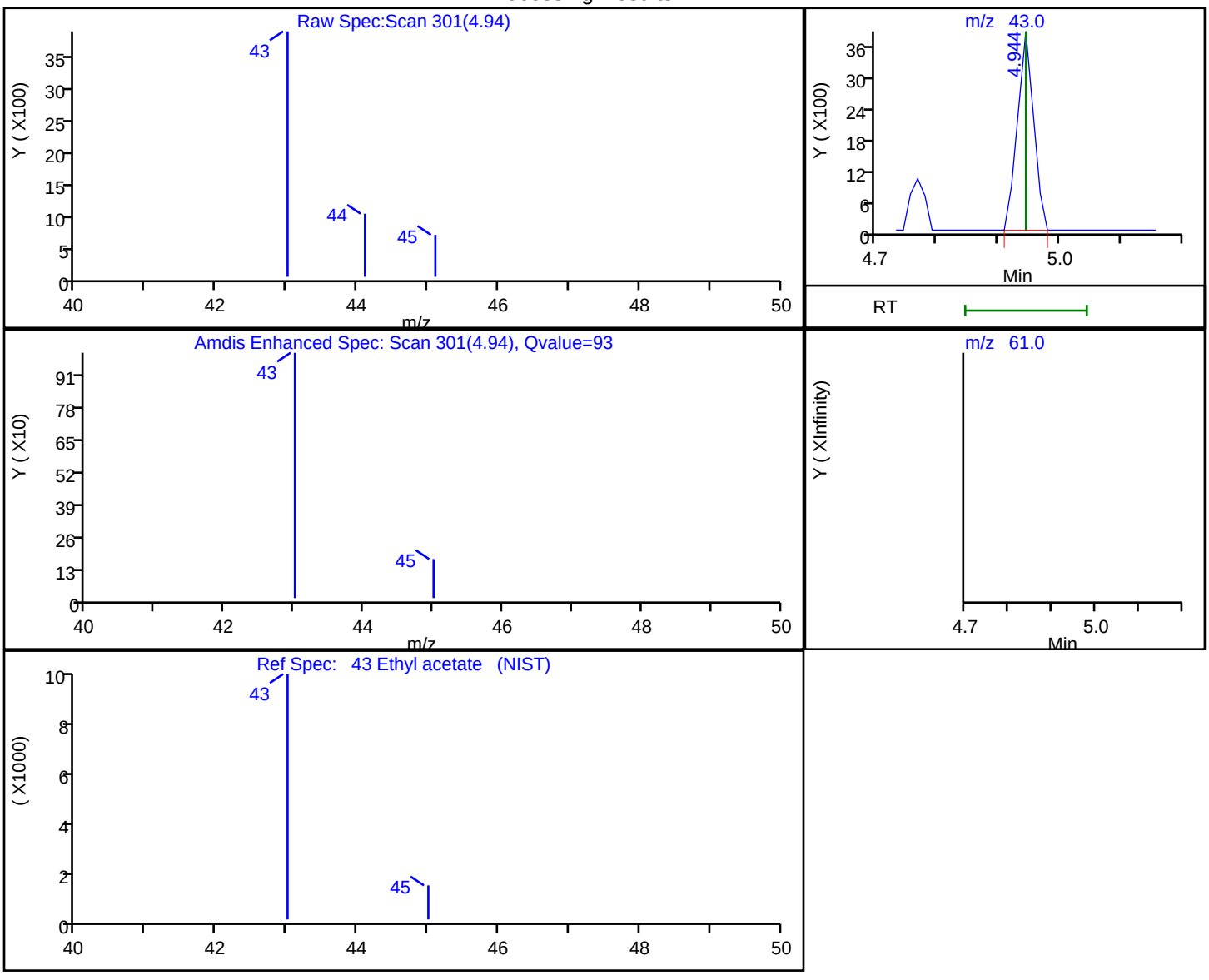
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D				
Injection Date:	07-Feb-2020 23:28:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
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		

43 Ethyl acetate, CAS: 141-78-6

Processing Results



RT	Mass	Response	Amount
4.94	43.00	7154	0.705423
4.94	61.00	0	

Reviewer: bosworthh, 10-Feb-2020 13:20:41

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

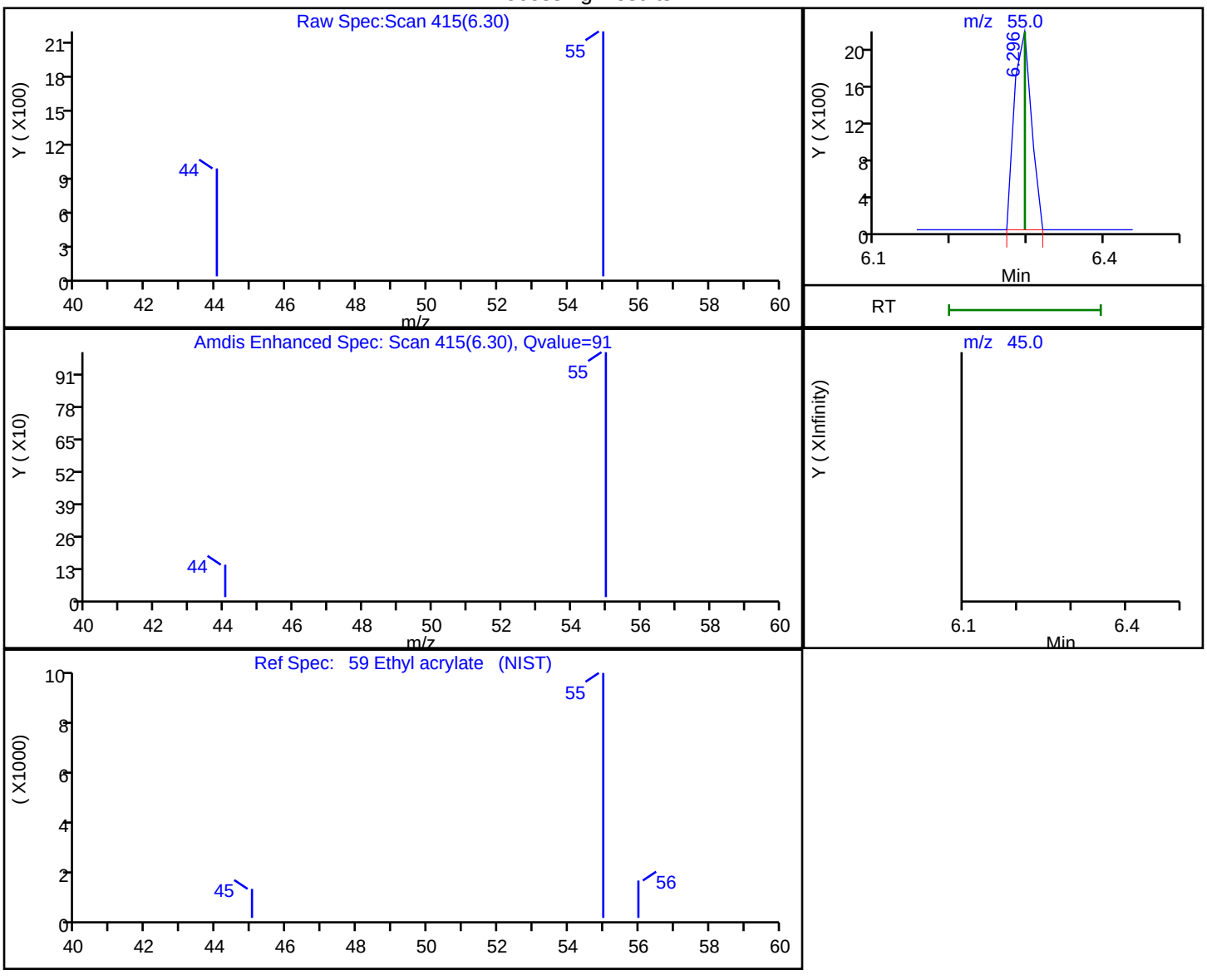
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D				
Injection Date:	07-Feb-2020 23:28:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
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		

59 Ethyl acrylate, CAS: 140-88-5

Processing Results



RT	Mass	Response	Amount
6.30	55.00	3298	0.556962
6.30	45.00	0	

Reviewer: bosworthh, 10-Feb-2020 13:21:52

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

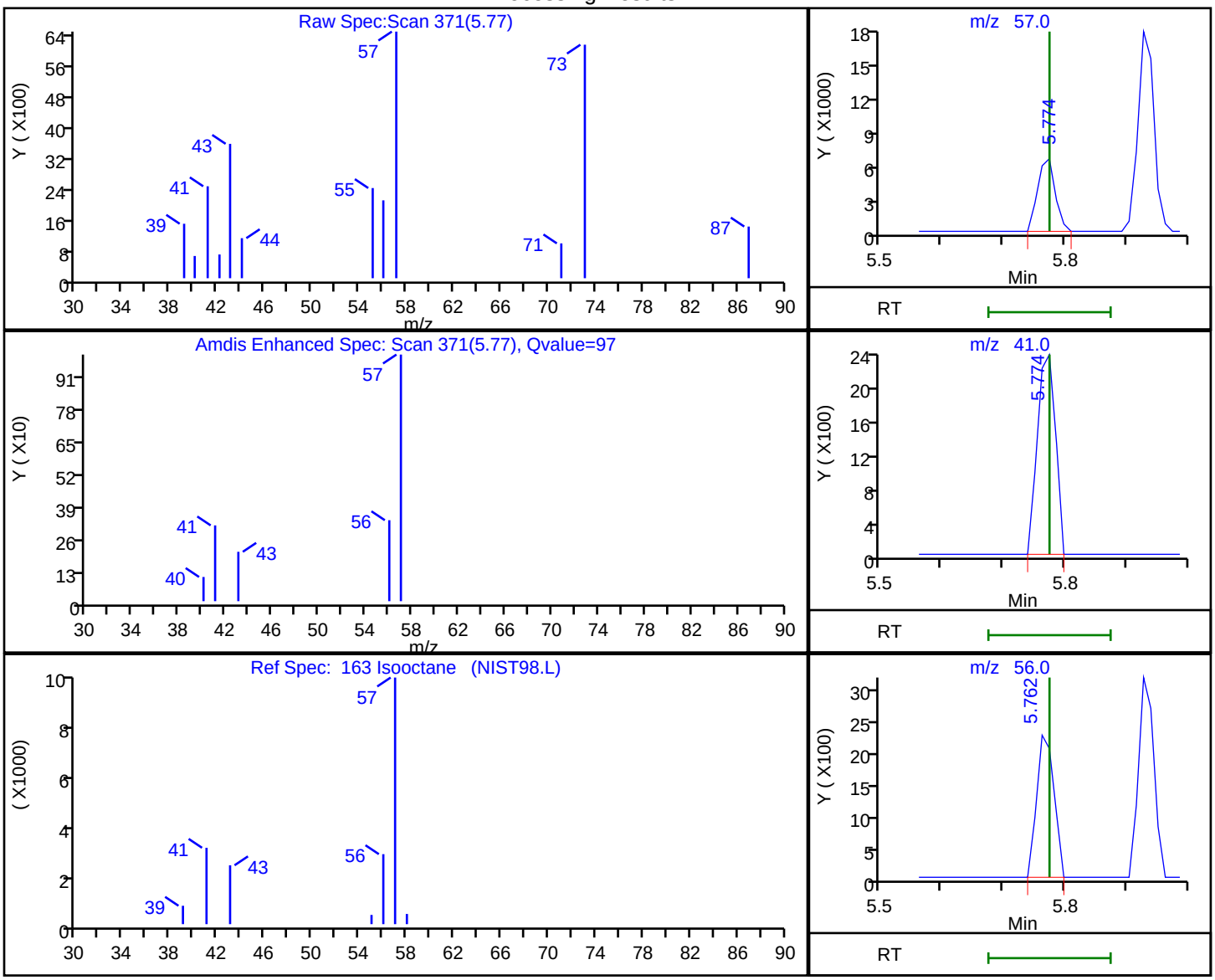
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D
Injection Date: 07-Feb-2020 23:28:30 Instrument ID: A3UX16
Lims ID: stdA9 L1
Client ID:
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

163 Isooctane, CAS: 540-84-1

Processing Results



RT	Mass	Response	Amount
5.77	57.00	12880	0.381203
5.77	41.00	4936	
5.76	56.00	4417	

Reviewer: bosworthh, 10-Feb-2020 13:21:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

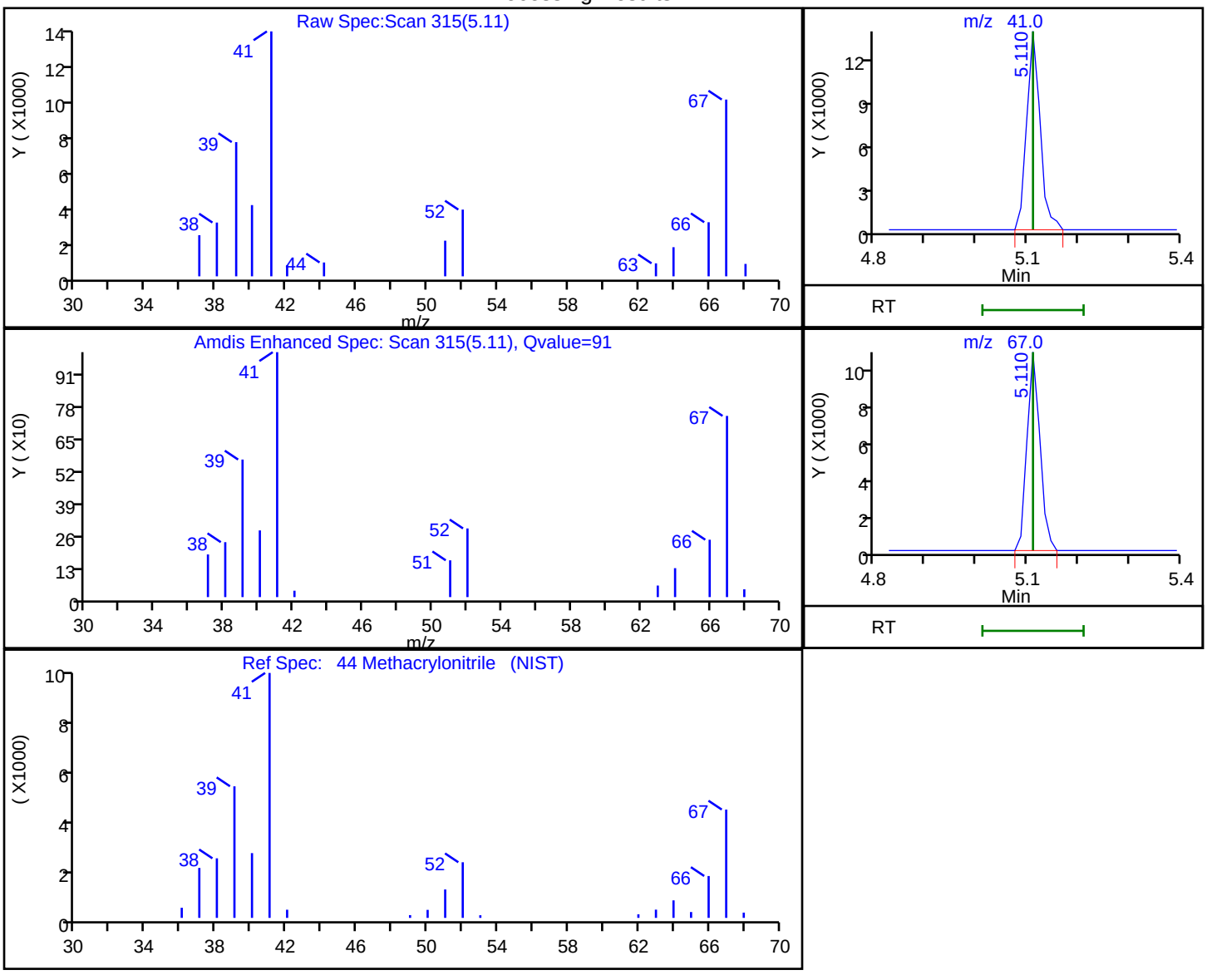
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D				
Injection Date:	07-Feb-2020 23:28:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
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		

44 Methacrylonitrile, CAS: 126-98-7

Processing Results



RT	Mass	Response	Amount
5.11	41.00	25788	3.516104
5.11	67.00	17956	

Reviewer: bosworthh, 10-Feb-2020 13:21:01

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

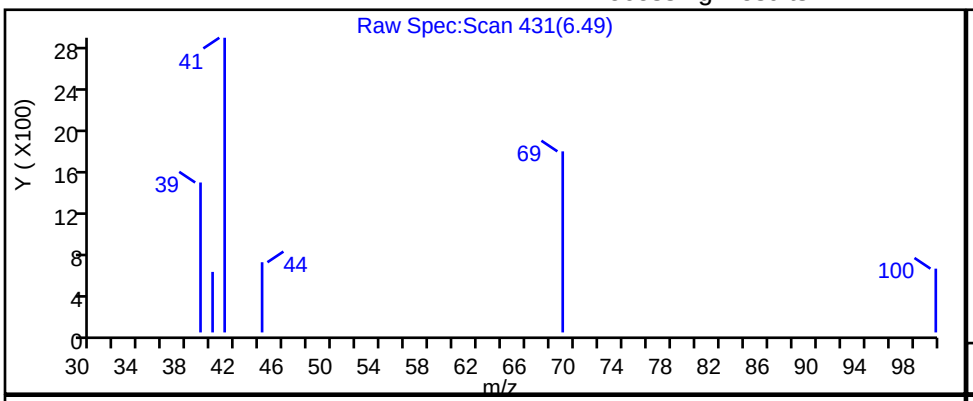
User Disabled Compound Report

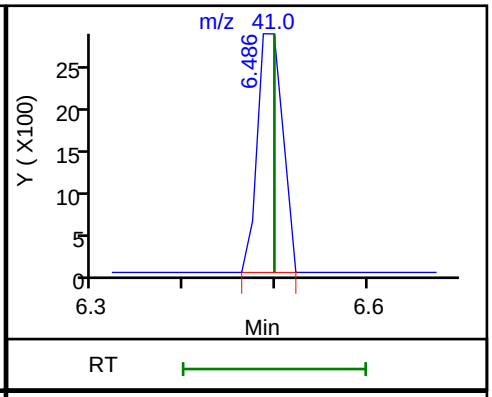
Eurofins TestAmerica, Canton

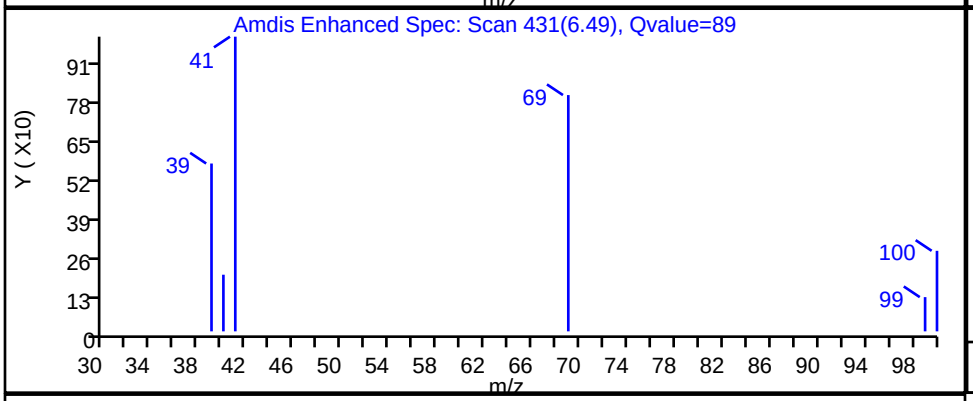
Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D				
Injection Date:	07-Feb-2020 23:28:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

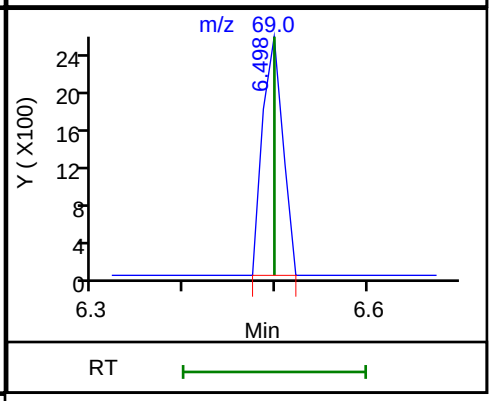
62 Methyl methacrylate, CAS: 80-62-6

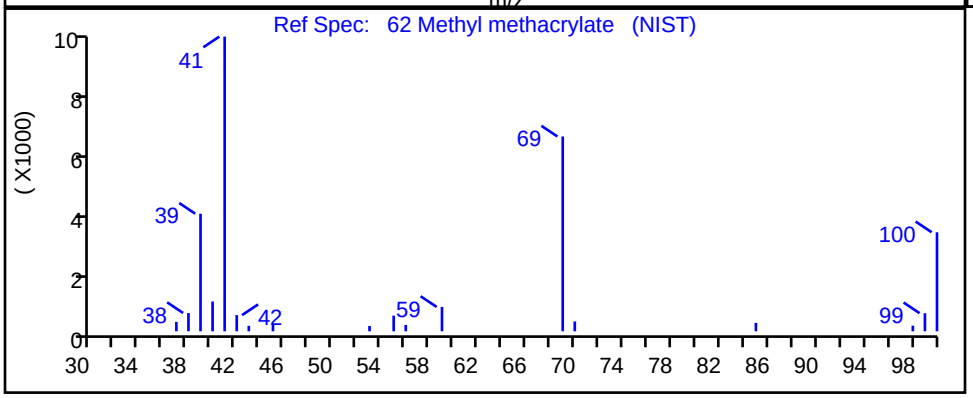
Processing Results











RT	Mass	Response	Amount
6.49	41.00	5600	1.103666
6.50	69.00	3930	

Reviewer: bosworthh, 10-Feb-2020 13:22:13

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

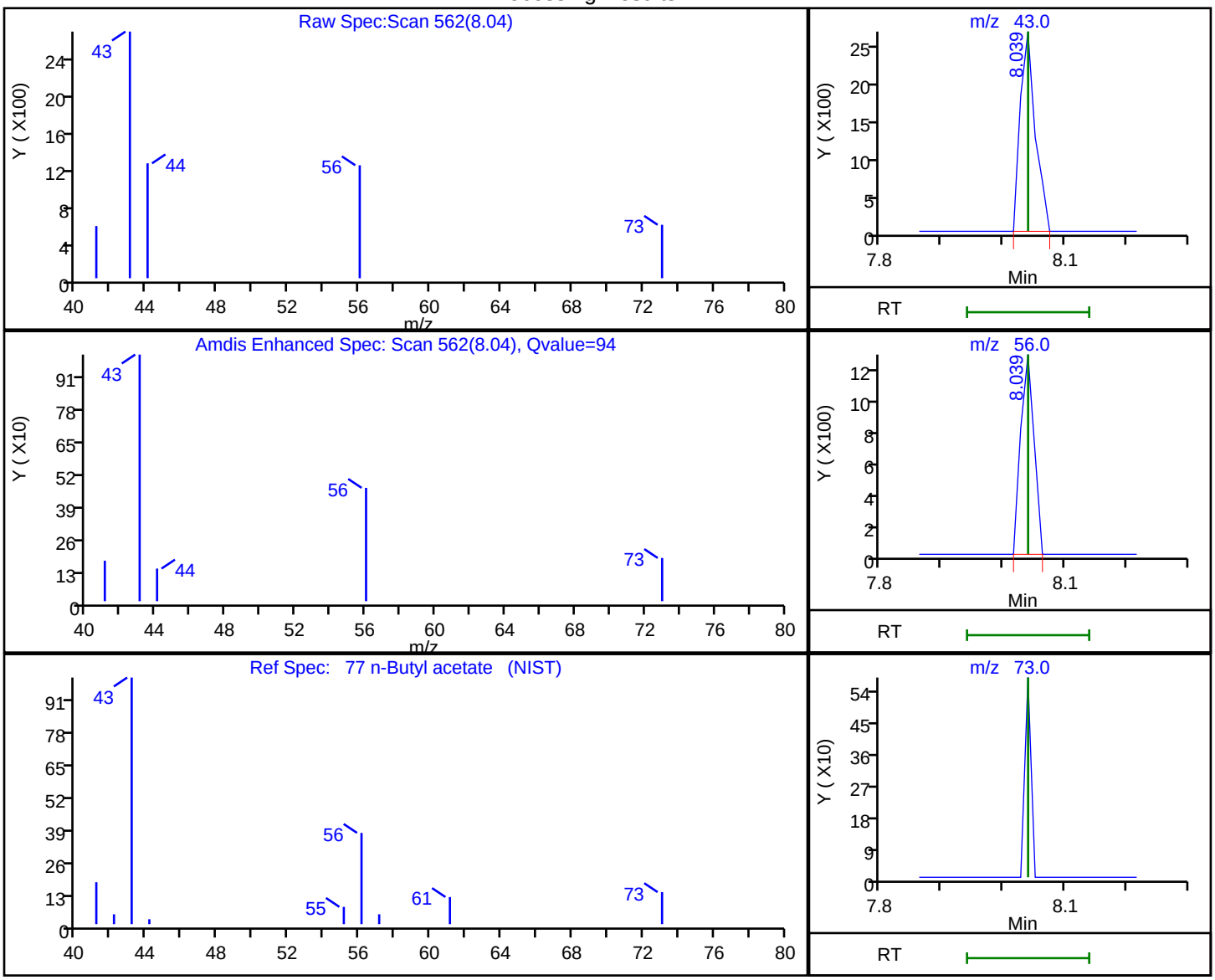
User Disabled Compound Report

Eurofins TestAmerica, Canton

Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D				
Injection Date:	07-Feb-2020 23:28:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
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		

77 n-Butyl acetate, CAS: 123-86-4

Processing Results



RT	Mass	Response	Amount
8.04	43.00	4544	0.510012
8.04	56.00	1848	
8.04	73.00	0	

Reviewer: bosworthh, 10-Feb-2020 13:22:33

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

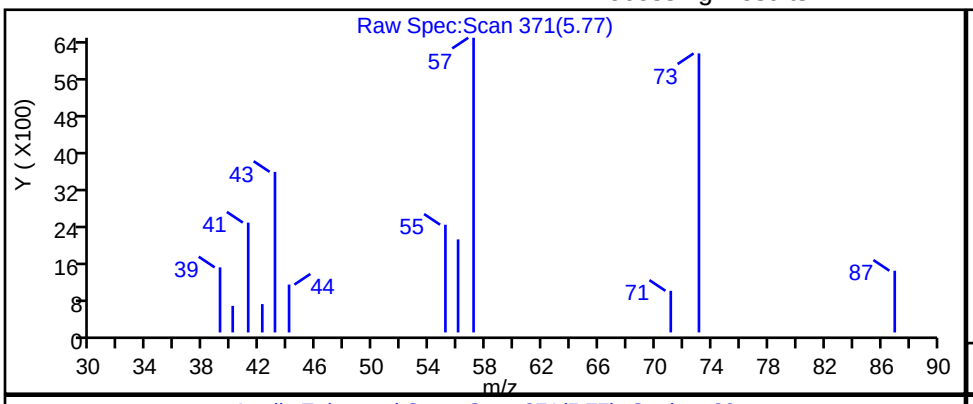
User Disabled Compound Report

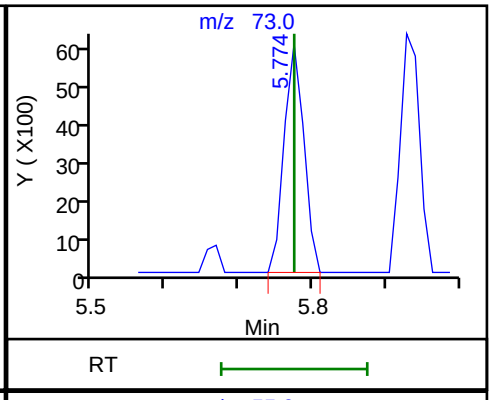
Eurofins TestAmerica, Canton

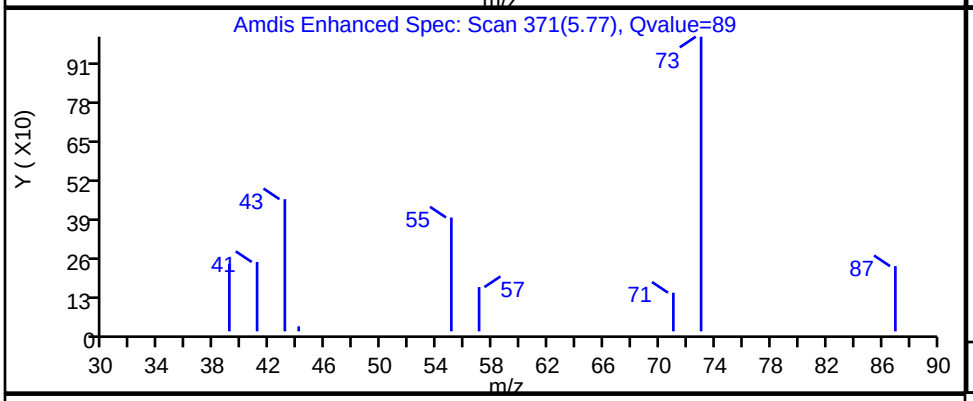
Data File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D				
Injection Date:	07-Feb-2020 23:28:30	Instrument ID:	A3UX16		
Lims ID:	stdA9 L1				
Client ID:					
Operator ID:	001765	ALS Bottle#:	25	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

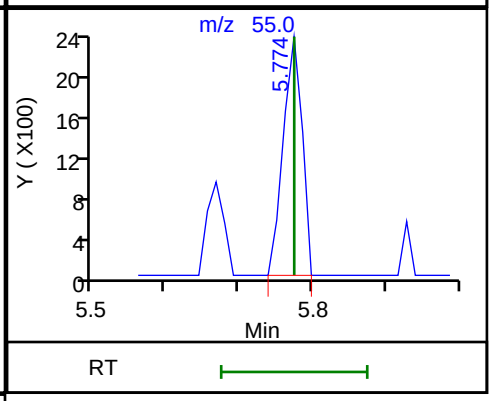
55 Tert-amyl methyl ether, CAS: 994-05-8

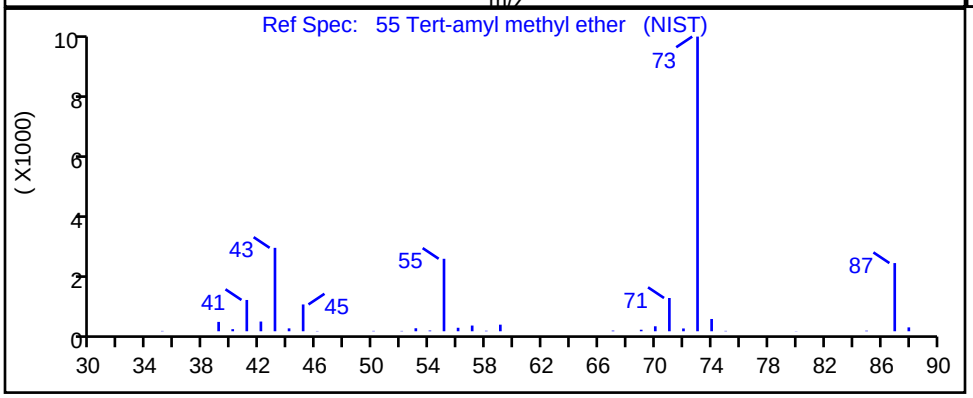
Processing Results











RT	Mass	Response	Amount
5.77	73.00	11454	0.372817
5.77	55.00	4216	

Reviewer: bosworthh, 10-Feb-2020 13:21:33

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.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-337766/13	U1900794.d
Level 2	STD8260 240-337766/12	U1900793.d
Level 3	STD8260 240-337766/11	U1900792.d
Level 4	ICIS 240-337766/10	U1900791.d
Level 5	STD8260 240-337766/9	U1900790.d
Level 6	STD8260 240-337766/3	U1900784.d
Level 7	STD8260 240-337766/2	U1900783.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	0.2985 0.3869	0.3275 0.3899	0.3189	0.3531	0.3613	Ave		0.3480			0.1000	10.0		20.0			
Chloromethane	0.3558 0.3258	0.3705 0.3191	0.3263	0.3392	0.3223	Ave		0.3370			0.1000	5.8		20.0			
Butadiene	0.3408 0.3374	0.3424 0.3377	0.2895	0.3248	0.3219	Ave		0.3278				5.7		20.0			
Vinyl chloride	0.2746 0.3390	0.3544 0.3374	0.3113	0.3366	0.3288	Ave		0.3260			0.1000	8.0		20.0			
Bromomethane	0.2749 0.2254	0.2866 0.2173	0.2405	0.2466	0.2251	Ave		0.2452			0.0500	10.8		20.0			
Chloroethane	0.2109 0.1921	0.2097 0.1854	0.1960	0.2032	0.1901	Ave		0.1982			0.0500	5.0		20.0			
Dichlorofluoromethane	0.5221 0.4475	0.4917 0.4372	0.4526	0.4727	0.4486	Ave		0.4675				6.5		20.0			
Trichlorofluoromethane	0.4494 0.4561	0.4680 0.4427	0.3932	0.4472	0.4396	Ave		0.4423			0.1000	5.3		20.0			
Ethyl ether	0.2193 0.1979	0.2111 0.1891	0.1902	0.1939	0.1890	Ave		0.1987				6.0		20.0			
Acrolein	0.0586 0.0546	0.0507 0.0535	0.0446	0.0490	0.0542	Ave		0.0522				8.7		20.0			
1,1-Dichloroethene	0.3808 0.3850	0.3828 0.3735	0.3902	0.3740	0.3655	Ave		0.3788			0.1000	2.2		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2602 0.2706	0.2860 0.2683	0.2820	0.2661	0.2580	Ave		0.2702			0.0500	3.9		20.0			
Acetone	+++++ 0.0784	0.0790 0.0643	0.0549	0.0580	0.0606	Ave		0.0659			0.0100	15.8		20.0			
Iodomethane	0.4645 0.4649	0.4824 0.4542	0.4796	0.4736	0.4610	Ave		0.4686				2.2		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.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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								
Carbon disulfide	1.0264 0.7904	0.9769 0.7703	0.8143	0.7839	0.7630	Ave		0.8465			0.1000	12.8		20.0			
3-Chloro-1-propene	0.4236 0.3955	0.4245 0.3845	0.3864	0.3828	0.3812	Ave		0.3969				4.8		20.0			
Methyl acetate	0.2893 0.2388	0.2199 0.2093	0.2069	0.2105	0.2113	Ave		0.2266			0.1000	13.1		20.0			
Methylene Chloride	+++++ 0.2977	0.3380 0.2854	0.3031	0.3009	0.2892	Ave		0.3024			0.1000	6.2		20.0			
2-Methyl-2-propanol	+++++ 0.0272	0.0286 +++++	0.0233	0.0231	0.0210	Ave		0.0246				12.8		20.0			
Acrylonitrile	0.1149 0.1149	0.0936 0.0991	0.0942	0.0985	0.1008	Ave		0.1023				8.8		20.0			
trans-1,2-Dichloroethene	0.4272 0.3621	0.3980 0.3508	0.3681	0.3544	0.3490	Ave		0.3728			0.1000	7.8		20.0			
Methyl tert-butyl ether	0.6889 0.7038	0.7226 0.6502	0.7037	0.7046	0.6888	Ave		0.6946			0.1000	3.3		20.0			
Hexane	0.4016 0.4127	0.4088 0.4136	0.4369	0.3839	0.3905	Ave		0.4069				4.3		20.0			
1,1-Dichloroethane	0.4297 0.4479	0.4309 0.4358	0.4483	0.4451	0.4391	Ave		0.4395			0.2000	1.8		20.0			
Vinyl acetate	0.4180 0.4211	0.3784 0.4083	0.3943	0.3850	0.3928	Ave		0.3997				4.1		20.0			
cis-1,2-Dichloroethene	0.3259 0.3058	0.3308 0.2928	0.3020	0.3030	0.2971	Ave		0.3082			0.1000	4.7		20.0			
2-Butanone (MEK)	+++++ 0.0411	0.0357 0.0381	0.0358	0.0358	0.0391	Ave		0.0376			0.0100	6.0		20.0			
2,2-Dichloropropane	0.2667 0.2404	0.2856 0.2633	0.2822	0.2661	0.2457	Ave		0.2643				6.4		20.0			
Chlorobromomethane	0.2447 0.2004	0.2207 0.1830	0.1878	0.1937	0.1884	Ave		0.2027				11.0		20.0			
Tetrahydrofuran	0.0995 0.1054	0.1040 0.0940	0.0907	0.0913	0.0950	Ave		0.0971				6.1		20.0			
Chloroform	0.4629 0.4616	0.4798 0.4429	0.4485	0.4541	0.4433	Ave		0.4561			0.2000	2.9		20.0			
1,1,1-Trichloroethane	0.3956 0.4177	0.3988 0.4154	0.4324	0.4070	0.4089	Ave		0.4108			0.1000	3.0		20.0			
Cyclohexane	0.4246 0.4364	0.4382 0.4292	0.4507	0.4156	0.4161	Ave		0.4301			0.1000	3.0		20.0			
1,1-Dichloropropene	0.3755 0.3758	0.3903 0.3692	0.3840	0.3595	0.3614	Ave		0.3737				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.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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								
Carbon tetrachloride	0.3639 0.3981	0.3846 0.3917	0.3944	0.3722	0.3729	Ave		0.3825			0.1000	3.4		20.0			
Isobutyl alcohol	0.0095 0.0104	0.0071 0.0087	0.0088	0.0079	0.0092	Ave		0.0088				12.2		20.0			
Benzene	0.9890 1.0452	1.0827 1.0051	1.0373	1.0007	1.0215	Ave		1.0259			0.5000	3.1		20.0			
1,2-Dichloroethane	0.3674 0.3257	0.3549 0.3127	0.3205	0.3110	0.3150	Ave		0.3296			0.1000	6.8		20.0			
n-Heptane	+++++ 0.2252	0.7970 0.2266	0.2839	0.2324	0.2217	Lin1	0.5799	0.2147				4.3			0.9990		0.9900
Trichloroethene	0.3122 0.3167	0.3258 0.3140	0.3258	0.3068	0.3105	Ave		0.3160			0.1500	2.3		20.0			
Methylcyclohexane	0.4985 0.5342	0.5073 0.5200	0.5394	0.4970	0.4957	Ave		0.5132			0.1000	3.6		20.0			
1,2-Dichloropropane	0.2050 0.2404	0.2394 0.2326	0.2309	0.2270	0.2376	Ave		0.2304			0.1000	5.3		20.0			
Dibromomethane	0.2379 0.2151	0.2154 0.2010	0.2009	0.2115	0.2105	Ave		0.2132				5.8		20.0			
1,4-Dioxane	+++++ 0.0024	0.0017 0.0024	0.0024	0.0024	0.0023	Ave		0.0023				13.5		20.0			
Dichlorobromomethane	0.3232 0.3408	0.3027 0.3295	0.3203	0.3127	0.3310	Ave		0.3229			0.1500	3.9		20.0			
2-Chloroethyl vinyl ether	0.1601 0.1755	0.1580 0.1783	0.1797	0.1698	0.1774	Ave		0.1713				5.2		20.0			
cis-1,3-Dichloropropene	0.3599 0.3873	0.3811 0.3872	0.3686	0.3735	0.3865	Ave		0.3777			0.1500	2.8		20.0			
4-Methyl-2-pentanone (MIBK)	0.2834 0.3221	0.2998 0.3046	0.3240	0.2983	0.3095	Ave		0.3059			0.0500	4.6		20.0			
Toluene	1.5618 1.4027	1.4672 1.4180	1.4098	1.3276	1.3894	Ave		1.4252			0.4000	5.1		20.0			
trans-1,3-Dichloropropene	0.4760 0.4702	0.4587 0.4631	0.4478	0.4252	0.4649	Ave		0.4580			0.1000	3.7		20.0			
Ethyl methacrylate	0.4185 0.4604	0.4061 0.4531	0.4309	0.4112	0.4583	Ave		0.4341				5.3		20.0			
1,1,2-Trichloroethane	0.2547 0.2895	0.2773 0.2862	0.2834	0.2725	0.2908	Ave		0.2792			0.1000	4.5		20.0			
Tetrachloroethene	0.4086 0.4320	0.4228 0.4317	0.4309	0.4048	0.4173	Ave		0.4212			0.1500	2.7		20.0			
1,3-Dichloropropane	0.4853 0.4890	0.5028 0.4855	0.4893	0.4635	0.4865	Ave		0.4860				2.4		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.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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								
2-Hexanone	0.2860 0.3061	0.2740 0.2989	0.3048	0.2770	0.2999	Ave		0.2924			0.0500	4.5		20.0			
Chlorodibromomethane	0.3153 0.3531	0.3347 0.3456	0.3254	0.3197	0.3424	Ave		0.3337				4.2		20.0			
Ethylene Dibromide	0.3316 0.3186	0.3371 0.3125	0.3153	0.3013	0.3163	Ave		0.3190				3.8		20.0			
Chlorobenzene	0.9988 0.9439	1.0195 0.9268	0.9392	0.9052	0.9346	Ave		0.9526			0.3000	4.3		20.0			
1,1,1,2-Tetrachloroethane	0.2852 0.3466	0.3288 0.3341	0.3290	0.3310	0.3341	Ave		0.3270				5.9		20.0			
Ethylbenzene	0.4594 0.5246	0.5226 0.5211	0.5127	0.4996	0.5108	Ave		0.5073				4.5		20.0			
m-Xylene & p-Xylene	0.6169 0.6437	0.6148 0.6359	0.6355	0.6137	0.6232	Ave		0.6262				1.9		20.0			
o-Xylene	0.5941 0.6233	0.5896 0.6029	0.6245	0.6014	0.5968	Ave		0.6047				2.3		20.0			
Styrene	0.9580 1.0545	0.9583 1.0320	1.0135	0.9872	1.0201	Ave		1.0034			0.3000	3.7		20.0			
Bromoform	+++++ 0.2846	0.2440 0.2826	0.2606	0.2566	0.2726	Ave		0.2668			0.1000	6.0		20.0			
Isopropylbenzene	1.5546 1.6483	1.5581 1.6164	1.6482	1.5866	1.5868	Ave		1.5999			0.1000	2.4		20.0			
1,1,2,2-Tetrachloroethane	0.7561 0.8073	0.8321 0.7913	0.8175	0.7659	0.8099	Ave		0.7972			0.3000	3.5		20.0			
Bromobenzene	0.8153 0.7490	0.7267 0.7427	0.7731	0.7237	0.7577	Ave		0.7555				4.2		20.0			
1,2,3-Trichloropropane	0.3160 0.2796	0.2566 0.2769	0.2966	0.2651	0.2852	Ave		0.2823				7.0		20.0			
trans-1,4-Dichloro-2-butene	0.2699 0.2473	0.2213 0.2516	0.2435	0.2261	0.2517	Ave		0.2445				6.7		20.0			
N-Propylbenzene	0.7798 0.8210	0.7523 0.8202	0.8514	0.7731	0.8029	Ave		0.8001				4.2		20.0			
2-Chlorotoluene	0.6509 0.6957	0.7125 0.6833	0.7132	0.6770	0.6858	Ave		0.6883				3.1		20.0			
1,3,5-Trimethylbenzene	2.0585 2.3418	2.1282 2.3386	2.4321	2.2627	2.2905	Ave		2.2646				5.7		20.0			
4-Chlorotoluene	0.7199 0.7173	0.7260 0.7141	0.7528	0.6936	0.7171	Ave		0.7201				2.4		20.0			
tert-Butylbenzene	2.0893 2.2086	2.2305 2.1805	2.3049	2.0958	2.1272	Ave		2.1767				3.6		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.3016 2.3641	2.3139 2.3974	2.4350	2.3225	2.3165	Ave		2.3501				2.1		20.0			
sec-Butylbenzene	2.8312 3.0965	2.8639 3.1341	3.2011	2.9684	2.9595	Ave		3.0078				4.6		20.0			
1,3-Dichlorobenzene	1.6206 1.4203	1.5501 1.4165	1.4543	1.3821	1.4074	Ave		1.4645			0.6000	6.0		20.0			
4-Isopropyltoluene	2.3868 2.6740	2.3755 2.7456	2.7383	2.5786	2.5586	Ave		2.5796				5.9		20.0			
1,4-Dichlorobenzene	1.7882 1.4335	1.6574 1.4328	1.4853	1.4002	1.4320	Ave		1.5185			0.5000	9.7		20.0			
n-Butylbenzene	2.0220 2.3242	2.1252 2.3914	2.3447	2.2111	2.1782	Ave		2.2281				5.9		20.0			
1,2-Dichlorobenzene	1.3936 1.3079	1.4283 1.3217	1.3446	1.2913	1.2861	Ave		1.3391			0.4000	4.0		20.0			
1,2-Dibromo-3-Chloropropane	0.2394 0.2501	0.2225 0.2556	0.2287	0.2293	0.2369	Ave		0.2375			0.0500	5.0		20.0			
1,2,4-Trichlorobenzene	1.0063 0.8577	1.0084 0.9508	0.8893	0.8765	0.8484	Ave		0.9196			0.2000	7.4		20.0			
Hexachlorobutadiene	0.4988 0.4431	0.5134 0.5128	0.4874	0.4604	0.4444	Ave		0.4800				6.4		20.0			
Naphthalene	2.5280 2.5374	2.6896 2.7560	2.5594	2.5256	2.5586	Ave		2.5935				3.5		20.0			
1,2,3-Trichlorobenzene	0.8270 0.7867	0.8451 0.9084	0.8355	0.8114	0.8072	Ave		0.8316				4.7		20.0			
Dibromofluoromethane (Surr)	0.2924 0.2586	0.2650 0.2453	0.2515	0.2531	0.2466	Ave		0.2589				6.3		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3213 0.2669	0.3001 0.2485	0.2625	0.2659	0.2555	Ave		0.2744				9.6		20.0			
Toluene-d8 (Surr)	1.2522 1.2151	1.2033 1.2031	1.2111	1.1433	1.2004	Ave		1.2041				2.7		20.0			
4-Bromofluorobenzene (Surr)	0.5696 0.4390	0.4918 0.4279	0.4472	0.4315	0.4318	Ave		0.4627				11.2		20.0			

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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-337766/13	U1900794.d
Level 2	STD8260 240-337766/12	U1900793.d
Level 3	STD8260 240-337766/11	U1900792.d
Level 4	ICIS 240-337766/10	U1900791.d
Level 5	STD8260 240-337766/9	U1900790.d
Level 6	STD8260 240-337766/3	U1900784.d
Level 7	STD8260 240-337766/2	U1900783.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	6894 1134505	14647 1522047	151920	328230	708511	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloromethane	FB	Ave	8217 955231	16570 1245553	155433	315290	632033	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Butadiene	FB	Ave	7871 989374	15313 1318121	137925	301883	631099	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl chloride	FB	Ave	6342 993940	15847 1317064	148293	312915	644632	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromomethane	FB	Ave	6350 660888	12818 848050	114577	229239	441425	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chloroethane	FB	Ave	4872 563348	9377 723733	93395	188891	372825	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	12059 1312016	21989 1706469	215631	439391	879608	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	10381 1337225	20928 1728039	187339	415720	861954	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl ether	FB	Ave	5066 580370	9442 738330	90620	180269	370565	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acrolein	FB	Ave	6772 800130	11339 1043418	106196	227879	531628	2.50 300	5.00 400	50.0	100	200
1,1-Dichloroethene	FB	Ave	8796 1128785	17119 1458107	185910	347690	716665	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	6009 793296	12789 1047375	134365	247358	505930	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Acetone	FB	Ave	+++++ 459712	7064 501797	52355	107763	237768	+++++ 120	2.00 160	20.0	40.0	80.0
Iodomethane	FB	Ave	10728 1363038	21574 1772860	228493	440198	903919	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon disulfide	FB	Ave	23708 2317545	43688 3006958	387941	728690	1496184	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.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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
3-Chloro-1-propene	FB	Ave	9784 1159498	18985 1500878	184068	355801	747474	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl acetate	FB	Ave	13362 1400331	19667 1633788	197122	391356	828794	1.00 120	2.00 160	20.0	40.0	80.0
Methylene Chloride	FB	Ave	+++++ 872855	15117 1113978	144386	279726	566982	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
2-Methyl-2-propanol	FB	Ave	+++++ 798354	12788 +++++	110777	215092	411966	+++++ 600	10.0 +++++	100	200	400
Acrylonitrile	FB	Ave	26540 3368428	41875 3868018	448754	915892	1977138	5.00 600	10.0 800	100	200	400
trans-1,2-Dichloroethene	FB	Ave	9868 1061569	17800 1369327	175373	329454	684359	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methyl tert-butyl ether	FB	Ave	15911 2063462	32315 2537900	335243	654948	1350698	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexane	FB	Ave	9277 1210166	18280 1614587	208123	356826	765779	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	9924 1313347	19272 1701003	213583	413734	860929	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Vinyl acetate	FB	Ave	9654 1234805	16923 1593713	187841	357825	770166	0.500 60.0	1.00 80.0	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	7528 896669	14795 1142993	143871	281663	582599	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Butanone (MEK)	FB	Ave	+++++ 241145	3193 297238	34072	66486	153177	+++++ 120	2.00 160	20.0	40.0	80.0
2,2-Dichloropropane	FB	Ave	6159 704769	12773 1027916	134434	247316	481767	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	5651 587580	9868 714392	89489	180080	369472	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrahydrofuran	FB	Ave	4596 618274	9301 734202	86462	169823	372381	1.00 120	2.00 160	20.0	40.0	80.0
Chloroform	FB	Ave	10692 1353439	21458 1728769	213657	422069	869181	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	9137 1224716	17835 1621508	206006	378348	801860	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Cyclohexane	FB	Ave	9806 1279473	19597 1675220	214696	386296	815868	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	8674 1102013	17455 1441115	182947	334178	708682	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	8406 1167256	17198 1528972	187898	345961	731238	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	5482 758926	7910 849021	105355	183028	449380	12.5 1500	25.0 2000	250	500	1000

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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
Benzene	FB	Ave	22844 3064496	48419 3923346	494183	930203	2003056	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	8485 954899	15873 1220640	152677	289097	617748	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Heptane	FB	Lin1	+++++ 660181	35642 884598	135257	216048	434651	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Trichloroethene	FB	Ave	7211 928718	14571 1225880	155201	285190	608912	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	11515 1566351	22689 2029926	256970	461990	972024	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	4734 704987	10704 908144	110015	210992	465852	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromomethane	FB	Ave	5496 630606	9635 784539	95707	196594	412829	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 142512	1478 187742	23290	43840	91591	+++++ 1200	20.0 1600	200	400	800
Dichlorobromomethane	FB	Ave	7466 999127	13539 1286301	152581	290639	649042	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	7395 1029389	14128 1392220	171233	315645	695808	1.00 120	2.00 160	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	8313 1135535	17042 1511629	175580	347181	757793	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	13091 1889071	26811 2377711	308673	554613	1213622	1.00 120	2.00 160	20.0	40.0	80.0
Toluene	CBNZ d5	Ave	28549 3229981	51989 4260144	544060	985962	2123092	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	8702 1082760	16254 1391341	172822	315763	710372	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethyl methacrylate	CBNZ d5	Ave	7650 1060082	14391 1361372	166277	305349	700245	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2-Trichloroethane	CBNZ d5	Ave	4656 666583	9825 859718	109350	202390	444369	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	7470 994717	14983 1297004	166266	300622	637692	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichloropropane	CBNZ d5	Ave	8871 1126088	17817 1458618	188817	344194	743433	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Hexanone	CBNZ d5	Ave	10457 1409861	19416 1795814	235229	411400	916606	1.00 120	2.00 160	20.0	40.0	80.0
Chlorodibromomethane	CBNZ d5	Ave	5763 813124	11860 1038431	125585	237418	523153	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethylene Dibromide	CBNZ d5	Ave	6061 733594	11944 938884	121691	223763	483377	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.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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
Chlorobenzene	CBNZ d5	Ave	18258 2173534	36126 2784427	362449	672294	1428038	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	5213 798193	11650 1003714	126948	245845	510579	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Ethylbenzene	CBNZ d5	Ave	8398 1207976	18517 1565528	197845	371072	780525	0.500 60.0	1.00 80.0	10.0	20.0	40.0
m-Xylene & p-Xylene	CBNZ d5	Ave	11276 1482266	21784 1910562	245222	455770	952249	0.500 60.0	1.00 80.0	10.0	20.0	40.0
o-Xylene	CBNZ d5	Ave	10860 1435324	20892 1811249	240986	446659	911893	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Styrene	CBNZ d5	Ave	17512 2428268	33956 3100442	391122	733164	1558780	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromoform	CBNZ d5	Ave	+++++ 655265	8645 849153	100560	190577	416502	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
Isopropylbenzene	CBNZ d5	Ave	28418 3795594	55210 4856288	636049	1178300	2424662	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	8105 1065677	17817 1352703	173948	331847	686661	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromobenzene	DCBd 4	Ave	8740 988831	15559 1269533	164497	313555	642419	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichloropropane	DCBd 4	Ave	3387 369092	5494 473318	63108	114884	241838	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	2893 326498	4738 430124	51819	97955	213375	0.500 60.0	1.00 80.0	10.0	20.0	40.0
N-Propylbenzene	DCBd 4	Ave	8359 1083875	16107 1402046	181166	334963	680756	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chlorotoluene	DCBd 4	Ave	6977 918378	15255 1168008	151745	293354	581507	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	22067 3091430	45567 3997648	517511	980405	1942019	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Chlorotoluene	DCBd 4	Ave	7717 946982	15545 1220622	160173	300515	607997	0.500 60.0	1.00 80.0	10.0	20.0	40.0
tert-Butylbenzene	DCBd 4	Ave	22397 2915643	47758 3727392	490442	908078	1803602	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	24672 3120829	49545 4098181	518127	1006317	1964040	0.500 60.0	1.00 80.0	10.0	20.0	40.0
sec-Butylbenzene	DCBd 4	Ave	30350 4087764	61320 5357379	681132	1286147	2509293	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3-Dichlorobenzene	DCBd 4	Ave	17372 1874897	33191 2421314	309437	598840	1193296	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Isopropyltoluene	DCBd 4	Ave	25586 3530033	50862 4693383	582655	1117286	2169356	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.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

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
1,4-Dichlorobenzene	DCBd 4	Ave	19169 1892443	35488 2449293	316046	606688	1214157	0.500 60.0	1.00 80.0	10.0	20.0	40.0
n-Butylbenzene	DCBd 4	Ave	21675 3068191	45503 4087812	498908	958018	1846843	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichlorobenzene	DCBd 4	Ave	14939 1726550	30581 2259323	286113	559506	1090448	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	2566 330105	4764 436864	48670	99335	200822	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	10787 1132196	21592 1625332	189226	379757	719342	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Hexachlorobutadiene	DCBd 4	Ave	5347 584967	10992 876579	103707	199490	376786	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Naphthalene	DCBd 4	Ave	27099 3349616	57589 4711177	544587	1094286	2169342	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	8865 1038523	18094 1552764	177768	351575	684438	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Dibromofluoromethane (Surr)	FB	Ave	6754 758227	11849 957680	119809	235239	483501	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	7422 782592	13421 970142	125069	247201	501017	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Toluene-d8 (Surr)	CBNZ d5	Ave	22890 2798059	42636 3614422	467380	849081	1834190	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	10413 1010844	17427 1285631	172585	320453	659738	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.: 240-127107-1 Analy Batch No.: 337766

SDG No.:

Instrument ID: A3UX19 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2018 17:50 Calibration End Date: 07/24/2018 20:04 Calibration ID: 46235

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-337766/13	U1900794.d
Level 2	STD8260 240-337766/12	U1900793.d
Level 3	STD8260 240-337766/11	U1900792.d
Level 4	ICIS 240-337766/10	U1900791.d
Level 5	STD8260 240-337766/9	U1900790.d
Level 6	STD8260 240-337766/3	U1900784.d
Level 7	STD8260 240-337766/2	U1900783.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
n-Heptane	+++++	1.1						50				

Report Date: 25-Jul-2018 10:13:31 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900783.d
Lims ID: std8260 L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 24-Jul-2018 17:50:49 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078277-002
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 10:13:29 Calib Date: 24-Jul-2018 20:04:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 09:42:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	94	975875	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	80	751089	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	65	427349	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.037	5.049	-0.012	62	957680	80.0	75.8	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.345	5.357	-0.012	90	970142	80.0	72.5	
$ 6 Toluene-d8 (Surr)	98	7.100	7.101	-0.001	92	3614422	80.0	79.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	92	1285631	80.0	74.0	
9 Dichlorodifluoromethane	85	1.610	1.622	-0.012	88	1522047	80.0	89.6	
10 Chloromethane	50	1.811	1.823	-0.012	81	1245553	80.0	75.7	
12 Butadiene	54	1.894	1.906	-0.012	88	1318121	80.0	82.4	
11 Vinyl chloride	62	1.918	1.930	-0.012	82	1317064	80.0	82.8	
13 Bromomethane	94	2.203	2.227	-0.024	90	848050	80.0	70.9	
14 Chloroethane	64	2.286	2.310	-0.024	86	723733	80.0	74.8	
15 Dichlorofluoromethane	67	2.487	2.511	-0.024	83	1706469	80.0	74.8	
16 Trichlorofluoromethane	101	2.559	2.582	-0.023	88	1728039	80.0	80.1	
17 Ethyl ether	59	2.796	2.820	-0.024	91	738330	80.0	76.2	
18 Acrolein	56	2.914	2.938	-0.024	93	1043418	400.0	409.9	
21 1,1-Dichloroethene	61	3.021	3.033	-0.012	90	1458107	80.0	78.9	
20 1,1,2-Trichloro-1,2,2-trif	101	3.045	3.057	-0.012	83	1047375	80.0	79.5	
22 Acetone	43	3.068	3.080	-0.012	74	501797	160.0	156.1	
23 Iodomethane	142	3.175	3.199	-0.024	98	1772860	80.0	77.5	

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	3.246	3.258	-0.012	98	3006958	80.0	72.8	
26 3-Chloro-1-propene	41	3.353	3.365	-0.012	83	1500878	80.0	77.5	
27 Methyl acetate	43	3.377	3.389	-0.012	97	1633788	160.0	147.8	
28 Methylene Chloride	49	3.472	3.484	-0.012	54	1113978	80.0	75.5	
29 2-Methyl-2-propanol	59	3.578	3.579	0.000	76	741744	800.0	616.8	
30 Acrylonitrile	53	3.685	3.697	-0.012	97	3868018	800.0	774.9	
32 trans-1,2-Dichloroethene	61	3.721	3.733	-0.012	80	1369327	80.0	75.3	
31 Methyl tert-butyl ether	73	3.733	3.733	0.000	69	2537900	80.0	74.9	
33 Hexane	57	3.970	3.982	-0.012	91	1614587	80.0	81.3	
34 1,1-Dichloroethane	63	4.100	4.112	-0.012	85	1701003	80.0	79.3	
35 Vinyl acetate	43	4.136	4.148	-0.012	97	1593713	80.0	81.7	
41 2-Butanone (MEK)	72	4.622	4.634	-0.012	64	297238	160.0	162.1	
39 2,2-Dichloropropane	77	4.622	4.634	-0.012	58	1027916	80.0	79.7	
40 cis-1,2-Dichloroethene	96	4.622	4.634	-0.012	68	1142993	80.0	76.0	
45 Chlorobromomethane	49	4.835	4.836	-0.001	71	714392	80.0	72.2	
46 Tetrahydrofuran	42	4.883	4.883	0.000	83	734202	160.0	154.9	
47 Chloroform	83	4.895	4.907	-0.012	68	1728769	80.0	77.7	
48 1,1,1-Trichloroethane	97	5.084	5.085	-0.001	89	1621508	80.0	80.9	
49 Cyclohexane	84	5.132	5.144	-0.012	87	1675220	80.0	79.8	
50 1,1-Dichloropropene	75	5.215	5.227	-0.012	92	1441115	80.0	79.0	
51 Carbon tetrachloride	117	5.227	5.239	-0.012	69	1528972	80.0	81.9	
52 Isobutyl alcohol	41	5.298	5.298	0.000	84	849021	2000.0	1980.1	
53 Benzene	78	5.405	5.417	-0.012	94	3923346	80.0	78.4	
54 1,2-Dichloroethane	62	5.416	5.417	-0.001	43	1220640	80.0	75.9	
56 n-Heptane	57	5.630	5.642	-0.012	91	884598	80.0	81.7	
58 Trichloroethene	130	5.986	5.986	0.000	90	1225880	80.0	79.5	
60 Methylcyclohexane	83	6.164	6.176	-0.012	90	2029926	80.0	81.1	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	88	908144	80.0	80.8	
63 Dibromomethane	174	6.294	6.294	0.000	85	784539	80.0	75.4	
64 1,4-Dioxane	88	6.294	6.306	-0.012	33	187742	1600.0	1694.3	
65 Dichlorobromomethane	83	6.424	6.436	-0.012	94	1286301	80.0	81.6	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	91	1392220	160.0	166.6	
68 cis-1,3-Dichloropropene	75	6.840	6.840	0.000	93	1511629	80.0	82.0	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	89	2377711	160.0	159.3	
70 Toluene	91	7.160	7.172	-0.012	94	4260144	80.0	79.6	
71 trans-1,3-Dichloropropene	75	7.349	7.361	-0.012	82	1391341	80.0	80.9	
72 Ethyl methacrylate	69	7.432	7.433	-0.001	88	1361372	80.0	83.5	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	67	859718	80.0	82.0	
75 Tetrachloroethene	166	7.693	7.693	0.000	91	1297004	80.0	82.0	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	87	1458618	80.0	79.9	
77 2-Hexanone	43	7.764	7.765	-0.001	79	1795814	160.0	163.5	
79 Chlorodibromomethane	129	7.919	7.931	-0.012	88	1038431	80.0	82.9	

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	8.037	8.049	-0.012	97	938884	80.0	78.4	
82 Chlorobenzene	112	8.523	8.524	-0.001	96	2784427	80.0	77.8	
83 1,1,1,2-Tetrachloroethane	131	8.606	8.607	-0.001	79	1003714	80.0	81.7	
84 Ethylbenzene	106	8.630	8.630	0.000	97	1565528	80.0	82.2	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	1910562	80.0	81.2	
87 Styrene	104	9.152	9.152	0.000	90	3100442	80.0	82.3	
86 o-Xylene	106	9.140	9.152	-0.012	93	1811249	80.0	79.8	
88 Bromoform	173	9.354	9.354	0.000	99	849153	80.0	84.7	
89 Isopropylbenzene	105	9.520	9.520	0.000	95	4856288	80.0	80.8	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	83	1352703	80.0	79.4	
92 Bromobenzene	156	9.840	9.840	0.000	80	1269533	80.0	78.6	
93 1,2,3-Trichloropropane	110	9.863	9.864	-0.001	68	473318	80.0	78.5	
94 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	52	430124	80.0	82.3	
95 N-Propylbenzene	120	9.946	9.947	-0.001	91	1402046	80.0	82.0	
96 2-Chlorotoluene	126	10.041	10.041	0.000	96	1168008	80.0	79.4	
97 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	93	3997648	80.0	82.6	
98 4-Chlorotoluene	126	10.148	10.148	0.000	97	1220622	80.0	79.3	
99 tert-Butylbenzene	119	10.468	10.468	0.000	77	3727392	80.0	80.1	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	70	4098181	80.0	81.6	
102 sec-Butylbenzene	105	10.694	10.694	0.000	94	5357379	80.0	83.4	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	96	2421314	80.0	77.4	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	90	4693383	80.0	85.1	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	95	2449293	80.0	75.5	
108 n-Butylbenzene	91	11.275	11.275	0.000	97	4087812	80.0	85.9	
109 1,2-Dichlorobenzene	146	11.298	11.298	0.000	98	2259323	80.0	79.0	
110 1,2-Dibromo-3-Chloropropan	157	12.128	12.129	-0.001	94	436864	80.0	86.1	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	92	1625332	80.0	82.7	
113 Hexachlorobutadiene	225	13.208	13.196	0.012	86	876579	80.0	85.5	
114 Naphthalene	128	13.279	13.279	0.000	96	4711177	80.0	85.0	
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	94	1552764	80.0	87.4	
S 164 Total BTEX	1				0		400.0	401.2	
S 127 Trihalomethanes, Total	1				0		320.0	326.9	
S 124 1,2-Dichloroethene, Total	96				0			151.3	
S 125 1,3-Dichloropropene, Total	75				0			162.9	
S 126 Xylenes, Total	106				0		160.0	161.0	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmrgas_00255	Amount Added:	64.00	Units: uL
vmarolistdw_00256	Amount Added:	64.00	Units: uL
vmrprimw_00292	Amount Added:	64.00	Units: uL
vm50ss_00329	Amount Added:	64.00	Units: uL

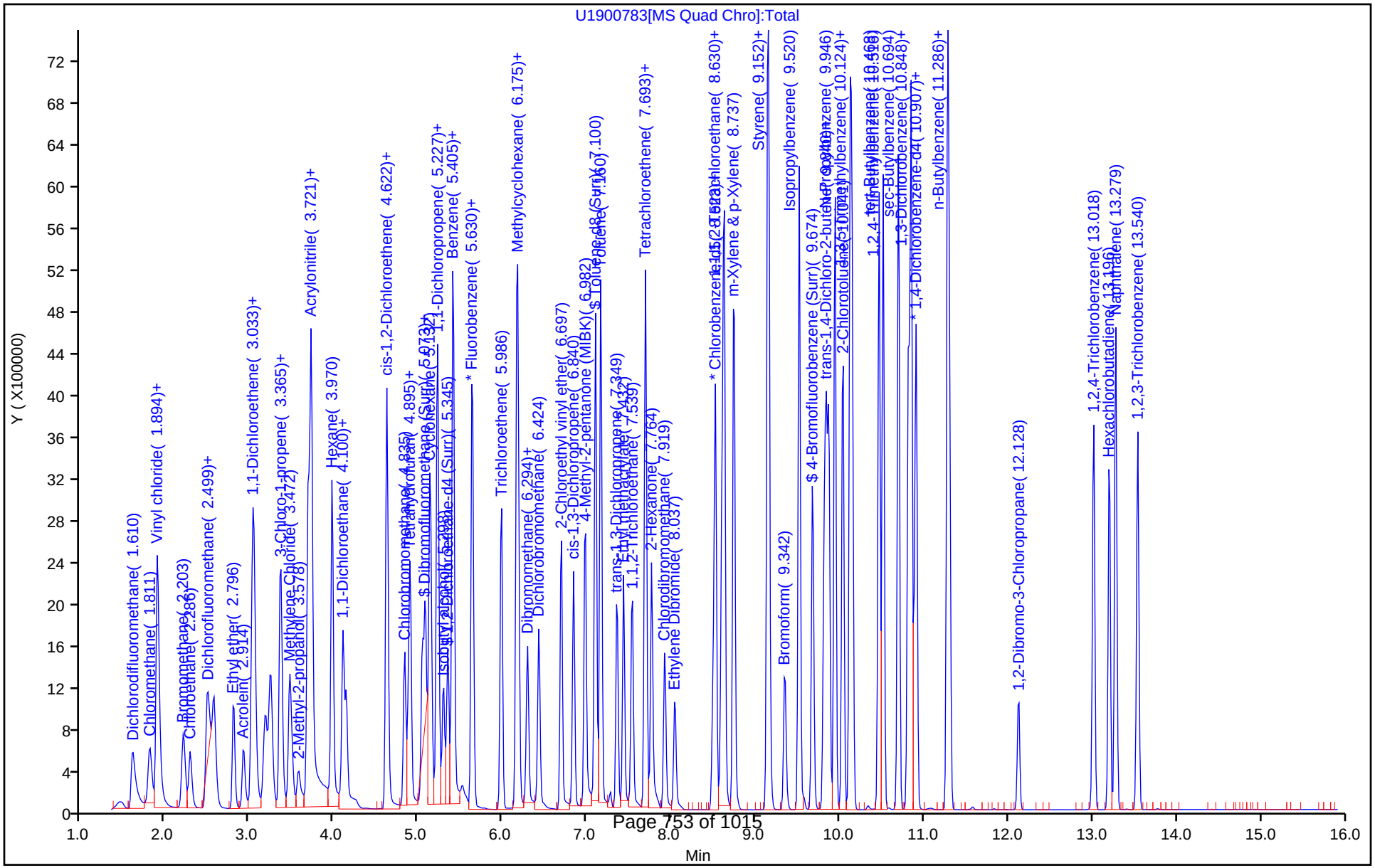
Report Date: 25-Jul-2018 10:13:31 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900783.d

Injection Date:	24-Jul-2018 17:50:49	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	std8260 L7			Worklist Smp#:	2
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\20180724-78277.b\U1900784.d
Lims ID: std8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 24-Jul-2018 18:13:04 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078277-003
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 10:13:35 Calib Date: 24-Jul-2018 20:04:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 09:44:24

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	977352	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	82	767566	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.884	10.883	0.001	73	440038	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	63	758227	60.0	59.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	98	782592	60.0	58.4	
$ 6 Toluene-d8 (Surr)	98	7.101	7.101	0.000	89	2798059	60.0	60.6	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	92	1010844	60.0	56.9	
9 Dichlorodifluoromethane	85	1.622	1.622	0.000	87	1134505	60.0	66.7	
10 Chloromethane	50	1.824	1.823	0.001	78	955231	60.0	58.0	
12 Butadiene	54	1.907	1.906	0.000	88	989374	60.0	61.8	
11 Vinyl chloride	62	1.930	1.930	0.000	82	993940	60.0	62.4	
13 Bromomethane	94	2.227	2.227	0.000	91	660888	60.0	55.2	
14 Chloroethane	64	2.310	2.310	0.000	87	563348	60.0	58.2	
15 Dichlorofluoromethane	67	2.511	2.511	0.000	83	1312016	60.0	57.4	
16 Trichlorofluoromethane	101	2.582	2.582	0.000	87	1337225	60.0	61.9	
17 Ethyl ether	59	2.808	2.820	-0.012	90	580370	60.0	59.8	
18 Acrolein	56	2.926	2.938	-0.012	96	800130	300.0	313.8	
21 1,1-Dichloroethene	61	3.045	3.033	0.012	89	1128785	60.0	61.0	
20 1,1,2-Trichloro-1,2,2-trif	101	3.057	3.057	0.000	74	793296	60.0	60.1	
22 Acetone	43	3.081	3.080	0.001	88	459712	120.0	142.8	
23 Iodomethane	142	3.199	3.199	0.000	97	1363038	60.0	59.5	

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	98	2317545	60.0	56.0	
26 3-Chloro-1-propene	41	3.365	3.365	0.000	79	1159498	60.0	59.8	
27 Methyl acetate	43	3.389	3.389	0.000	96	1400331	120.0	126.5	
28 Methylene Chloride	49	3.484	3.484	0.000	51	872855	60.0	59.1	
29 2-Methyl-2-propanol	59	3.579	3.579	0.001	88	798354	600.0	662.9	
30 Acrylonitrile	53	3.697	3.697	0.000	99	3368428	600.0	673.8	
31 Methyl tert-butyl ether	73	3.733	3.733	0.000	47	2063462	60.0	60.8	
32 trans-1,2-Dichloroethene	61	3.733	3.733	0.000	71	1061569	60.0	58.3	
33 Hexane	57	3.982	3.982	0.000	89	1210166	60.0	60.9	
34 1,1-Dichloroethane	63	4.112	4.112	0.000	84	1313347	60.0	61.1	
35 Vinyl acetate	43	4.148	4.148	0.000	97	1234805	60.0	63.2	
40 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	67	896669	60.0	59.5	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	59	704769	60.0	54.6	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	79	241145	120.0	131.3	
45 Chlorobromomethane	49	4.836	4.836	0.000	75	587580	60.0	59.3	
46 Tetrahydrofuran	42	4.883	4.883	0.000	87	618274	120.0	130.2	
47 Chloroform	83	4.907	4.907	0.000	70	1353439	60.0	60.7	
48 1,1,1-Trichloroethane	97	5.085	5.085	0.000	81	1224716	60.0	61.0	
49 Cyclohexane	84	5.144	5.144	0.000	85	1279473	60.0	60.9	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	91	1102013	60.0	60.3	
51 Carbon tetrachloride	117	5.239	5.239	0.000	70	1167256	60.0	62.4	
52 Isobutyl alcohol	41	5.298	5.298	0.000	83	758926	1500.0	1767.3	
54 1,2-Dichloroethane	62	5.417	5.417	0.000	46	954899	60.0	59.3	
53 Benzene	78	5.417	5.417	0.000	94	3064496	60.0	61.1	
56 n-Heptane	57	5.642	5.642	0.000	89	660181	60.0	60.2	
58 Trichloroethene	130	5.986	5.986	0.000	92	928718	60.0	60.1	
60 Methylcyclohexane	83	6.176	6.176	0.000	89	1566351	60.0	62.5	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	86	704987	60.0	62.6	
63 Dibromomethane	174	6.294	6.294	0.000	88	630606	60.0	60.5	
64 1,4-Dioxane	88	6.306	6.306	0.000	34	142512	1200.0	1284.2	
65 Dichlorobromomethane	83	6.437	6.436	0.000	93	999127	60.0	63.3	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	86	1029389	120.0	123.0	
68 cis-1,3-Dichloropropene	75	6.840	6.840	0.000	95	1135535	60.0	61.5	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	93	1889071	120.0	126.4	
70 Toluene	91	7.172	7.172	0.000	94	3229981	60.0	59.1	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	80	1082760	60.0	61.6	
72 Ethyl methacrylate	69	7.433	7.433	0.000	87	1060082	60.0	63.6	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	73	666583	60.0	62.2	
75 Tetrachloroethene	166	7.694	7.693	0.001	92	994717	60.0	61.5	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	87	1126088	60.0	60.4	
77 2-Hexanone	43	7.765	7.765	0.000	79	1409861	120.0	125.6	
79 Chlorodibromomethane	129	7.919	7.931	-0.012	88	813124	60.0	63.5	

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	733594	60.0	59.9	
82 Chlorobenzene	112	8.524	8.524	0.000	96	2173534	60.0	59.5	
83 1,1,1,2-Tetrachloroethane	131	8.607	8.607	0.000	85	798193	60.0	63.6	
84 Ethylbenzene	106	8.630	8.630	0.000	97	1207976	60.0	62.1	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	1482266	60.0	61.7	
86 o-Xylene	106	9.140	9.152	-0.012	93	1435324	60.0	61.9	
87 Styrene	104	9.152	9.152	0.000	90	2428268	60.0	63.1	
88 Bromoform	173	9.354	9.354	0.000	99	655265	60.0	64.0	
89 Isopropylbenzene	105	9.520	9.520	0.000	95	3795594	60.0	61.8	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	83	1065677	60.0	60.8	
92 Bromobenzene	156	9.840	9.840	0.000	80	988831	60.0	59.5	
93 1,2,3-Trichloropropane	110	9.864	9.864	0.000	67	369092	60.0	59.4	
94 trans-1,4-Dichloro-2-buten	53	9.876	9.875	0.001	52	326498	60.0	60.7	
95 N-Propylbenzene	120	9.947	9.947	0.000	95	1083875	60.0	61.6	
96 2-Chlorotoluene	126	10.042	10.041	0.001	96	918378	60.0	60.6	
97 1,3,5-Trimethylbenzene	105	10.125	10.124	0.001	93	3091430	60.0	62.0	
98 4-Chlorotoluene	126	10.148	10.148	0.000	97	946982	60.0	59.8	
99 tert-Butylbenzene	119	10.468	10.468	0.000	76	2915643	60.0	60.9	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	70	3120829	60.0	60.4	
102 sec-Butylbenzene	105	10.694	10.694	0.000	93	4087764	60.0	61.8	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	90	1874897	60.0	58.2	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	90	3530033	60.0	62.2	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	94	1892443	60.0	56.6	
108 n-Butylbenzene	91	11.275	11.275	0.000	97	3068191	60.0	62.6	
109 1,2-Dichlorobenzene	146	11.299	11.298	0.001	98	1726550	60.0	58.6	
110 1,2-Dibromo-3-Chloropropan	157	12.129	12.129	0.000	94	330105	60.0	63.2	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	92	1132196	60.0	56.0	
113 Hexachlorobutadiene	225	13.196	13.196	0.000	92	584967	60.0	55.4	
114 Naphthalene	128	13.279	13.279	0.000	96	3349616	60.0	58.7	
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	94	1038523	60.0	56.8	
S 127 Trihalomethanes, Total	1				0		240.0	251.5	
S 164 Total BTEX	1				0		300.0	305.8	
S 124 1,2-Dichloroethene, Total	96				0			117.8	
S 125 1,3-Dichloropropene, Total	75				0			123.1	
S 126 Xylenes, Total	106				0		120.0	123.5	

Reagents:

vmarolistdw_00256	Amount Added:	48.00	Units: uL
vmrgas_00255	Amount Added:	48.00	Units: uL
vmrprimw_00292	Amount Added:	48.00	Units: uL
vm50ss_00329	Amount Added:	48.00	Units: uL
vm50is_stk_A_00001	Amount Added:	2.00	Units: uL

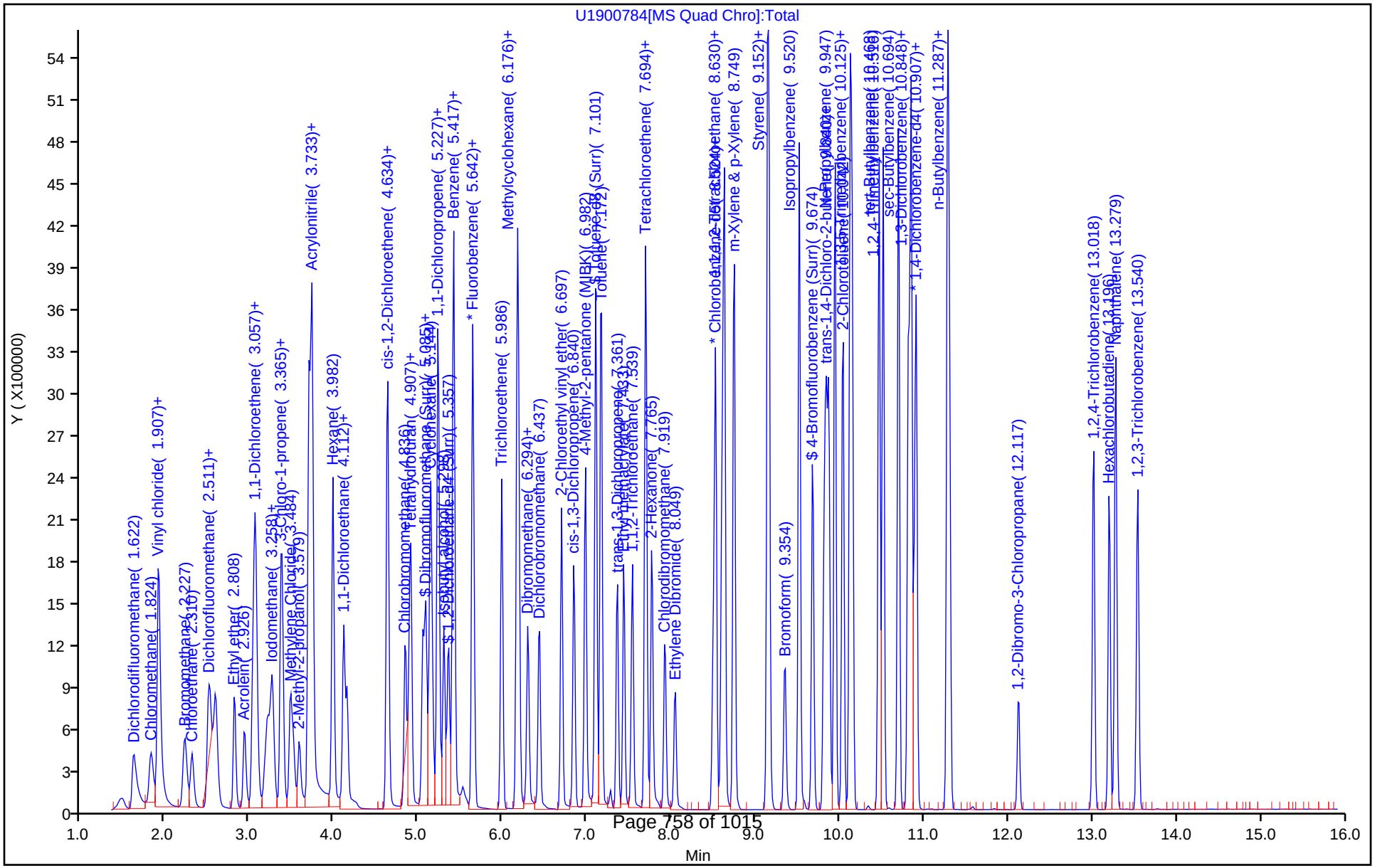
Report Date: 25-Jul-2018 10:13:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900784.d

Injection Date:	24-Jul-2018 18:13:04	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	std8260 L6			Worklist Smp#:	3
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 10:13:43 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900790.d
Lims ID: std8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 24-Jul-2018 18:35:32 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078277-009
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 10:13:42 Calib Date: 24-Jul-2018 20:04:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 09:45:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	95	980424	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	82	764018	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	76	423933	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	60	483501	40.0	38.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.345	5.357	-0.012	99	501017	40.0	37.2	
$ 6 Toluene-d8 (Surr)	98	7.100	7.101	-0.001	92	1834190	40.0	39.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	91	659738	40.0	37.3	
9 Dichlorodifluoromethane	85	1.610	1.622	-0.012	88	708511	40.0	41.5	
10 Chloromethane	50	1.811	1.823	-0.012	78	632033	40.0	38.3	
12 Butadiene	54	1.894	1.906	-0.012	87	631099	40.0	39.3	
11 Vinyl chloride	62	1.918	1.930	-0.012	83	644632	40.0	40.3	
13 Bromomethane	94	2.215	2.227	-0.012	90	441425	40.0	36.7	
14 Chloroethane	64	2.298	2.310	-0.012	86	372825	40.0	38.4	
15 Dichlorofluoromethane	67	2.499	2.511	-0.012	83	879608	40.0	38.4	
16 Trichlorofluoromethane	101	2.570	2.582	-0.012	87	861954	40.0	39.8	
17 Ethyl ether	59	2.808	2.820	-0.012	88	370565	40.0	38.0	
18 Acrolein	56	2.926	2.938	-0.012	92	531628	200.0	207.9	
21 1,1-Dichloroethene	61	3.033	3.033	0.000	89	716665	40.0	38.6	
20 1,1,2-Trichloro-1,2,2-trif	101	3.045	3.057	-0.012	76	505930	40.0	38.2	
22 Acetone	43	3.068	3.080	-0.012	63	237768	80.0	73.6	
23 Iodomethane	142	3.187	3.199	-0.012	96	903919	40.0	39.4	

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	3.246	3.258	-0.012	98	1496184	40.0	36.1	
26 3-Chloro-1-propene	41	3.353	3.365	-0.012	81	747474	40.0	38.4	
27 Methyl acetate	43	3.377	3.389	-0.012	96	828794	80.0	74.6	
28 Methylene Chloride	49	3.472	3.484	-0.012	53	566982	40.0	38.3	
29 2-Methyl-2-propanol	59	3.578	3.579	0.000	9	411966	400.0	341.0	
30 Acrylonitrile	53	3.697	3.697	0.000	99	1977138	400.0	394.3	
32 trans-1,2-Dichloroethene	61	3.721	3.733	-0.012	78	684359	40.0	37.4	
31 Methyl tert-butyl ether	73	3.733	3.733	0.000	88	1350698	40.0	39.7	
33 Hexane	57	3.982	3.982	0.000	90	765779	40.0	38.4	
34 1,1-Dichloroethane	63	4.100	4.112	-0.012	85	860929	40.0	40.0	
35 Vinyl acetate	43	4.148	4.148	0.000	96	770166	40.0	39.3	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	74	153177	80.0	83.1	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	64	481767	40.0	37.2	
40 cis-1,2-Dichloroethene	96	4.622	4.634	-0.012	62	582599	40.0	38.6	
45 Chlorobromomethane	49	4.835	4.836	-0.001	89	369472	40.0	37.2	
46 Tetrahydrofuran	42	4.883	4.883	0.000	87	372381	80.0	78.2	
47 Chloroform	83	4.907	4.907	0.000	70	869181	40.0	38.9	
48 1,1,1-Trichloroethane	97	5.084	5.085	-0.001	89	801860	40.0	39.8	
49 Cyclohexane	84	5.144	5.144	0.000	75	815868	40.0	38.7	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	90	708682	40.0	38.7	
51 Carbon tetrachloride	117	5.239	5.239	0.000	70	731238	40.0	39.0	
52 Isobutyl alcohol	41	5.298	5.298	0.000	70	449380	1000.0	1043.2	
53 Benzene	78	5.405	5.417	-0.012	93	2003056	40.0	39.8	
54 1,2-Dichloroethane	62	5.416	5.417	-0.001	47	617748	40.0	38.2	
56 n-Heptane	57	5.642	5.642	0.000	86	434651	40.0	38.6	
58 Trichloroethene	130	5.986	5.986	0.000	92	608912	40.0	39.3	
60 Methylcyclohexane	83	6.175	6.176	-0.001	90	972024	40.0	38.6	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	86	465852	40.0	41.2	
63 Dibromomethane	174	6.294	6.294	0.000	90	412829	40.0	39.5	
64 1,4-Dioxane	88	6.306	6.306	0.000	32	91591	800.0	822.7	
65 Dichlorobromomethane	83	6.424	6.436	-0.012	94	649042	40.0	41.0	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	86	695808	80.0	82.9	
68 cis-1,3-Dichloropropene	75	6.840	6.840	0.000	93	757793	40.0	40.9	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	92	1213622	80.0	80.9	
70 Toluene	91	7.160	7.172	-0.012	94	2123092	40.0	39.0	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	80	710372	40.0	40.6	
72 Ethyl methacrylate	69	7.432	7.433	-0.001	87	700245	40.0	42.2	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	73	444369	40.0	41.7	
75 Tetrachloroethene	166	7.693	7.693	0.000	91	637692	40.0	39.6	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	87	743433	40.0	40.0	
77 2-Hexanone	43	7.764	7.765	-0.001	79	916606	80.0	82.1	
79 Chlorodibromomethane	129	7.919	7.931	-0.012	88	523153	40.0	41.0	

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	483377	40.0	39.7	
82 Chlorobenzene	112	8.523	8.524	-0.001	96	1428038	40.0	39.2	
83 1,1,1,2-Tetrachloroethane	131	8.606	8.607	-0.001	85	510579	40.0	40.9	
84 Ethylbenzene	106	8.630	8.630	0.000	98	780525	40.0	40.3	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	952249	40.0	39.8	
87 Styrene	104	9.152	9.152	0.000	89	1558780	40.0	40.7	
86 o-Xylene	106	9.152	9.152	0.000	86	911893	40.0	39.5	
88 Bromoform	173	9.354	9.354	0.000	99	416502	40.0	40.9	
89 Isopropylbenzene	105	9.520	9.520	0.000	95	2424662	40.0	39.7	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	87	686661	40.0	40.6	
92 Bromobenzene	156	9.840	9.840	0.000	87	642419	40.0	40.1	
93 1,2,3-Trichloropropane	110	9.863	9.864	-0.001	68	241838	40.0	40.4	
94 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	59	213375	40.0	41.2	
95 N-Propylbenzene	120	9.946	9.947	-0.001	95	680756	40.0	40.1	
96 2-Chlorotoluene	126	10.041	10.041	0.000	96	581507	40.0	39.9	
97 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	93	1942019	40.0	40.5	
98 4-Chlorotoluene	126	10.148	10.148	0.000	97	607997	40.0	39.8	
99 tert-Butylbenzene	119	10.468	10.468	0.000	77	1803602	40.0	39.1	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	70	1964040	40.0	39.4	
102 sec-Butylbenzene	105	10.694	10.694	0.000	94	2509293	40.0	39.4	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	89	1193296	40.0	38.4	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	90	2169356	40.0	39.7	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	94	1214157	40.0	37.7	
108 n-Butylbenzene	91	11.275	11.275	0.000	97	1846843	40.0	39.1	
109 1,2-Dichlorobenzene	146	11.298	11.298	0.000	98	1090448	40.0	38.4	
110 1,2-Dibromo-3-Chloropropan	157	12.128	12.129	-0.001	93	200822	40.0	39.9	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	92	719342	40.0	36.9	
113 Hexachlorobutadiene	225	13.208	13.196	0.012	86	376786	40.0	37.0	
114 Naphthalene	128	13.279	13.279	0.000	96	2169342	40.0	39.5	
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	94	684438	40.0	38.8	
S 164 Total BTEX	1				0		200.0	198.4	
S 127 Trihalomethanes, Total	1				0		160.0	161.8	
S 124 1,2-Dichloroethene, Total	96				0			76.0	
S 125 1,3-Dichloropropene, Total	75				0			81.5	
S 126 Xylenes, Total	106				0		80.0	79.3	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmrgas_00255	Amount Added:	32.00	Units: uL
vmarolistdw_00256	Amount Added:	32.00	Units: uL
vmrprimw_00292	Amount Added:	32.00	Units: uL
vm50ss_00329	Amount Added:	32.00	Units: uL

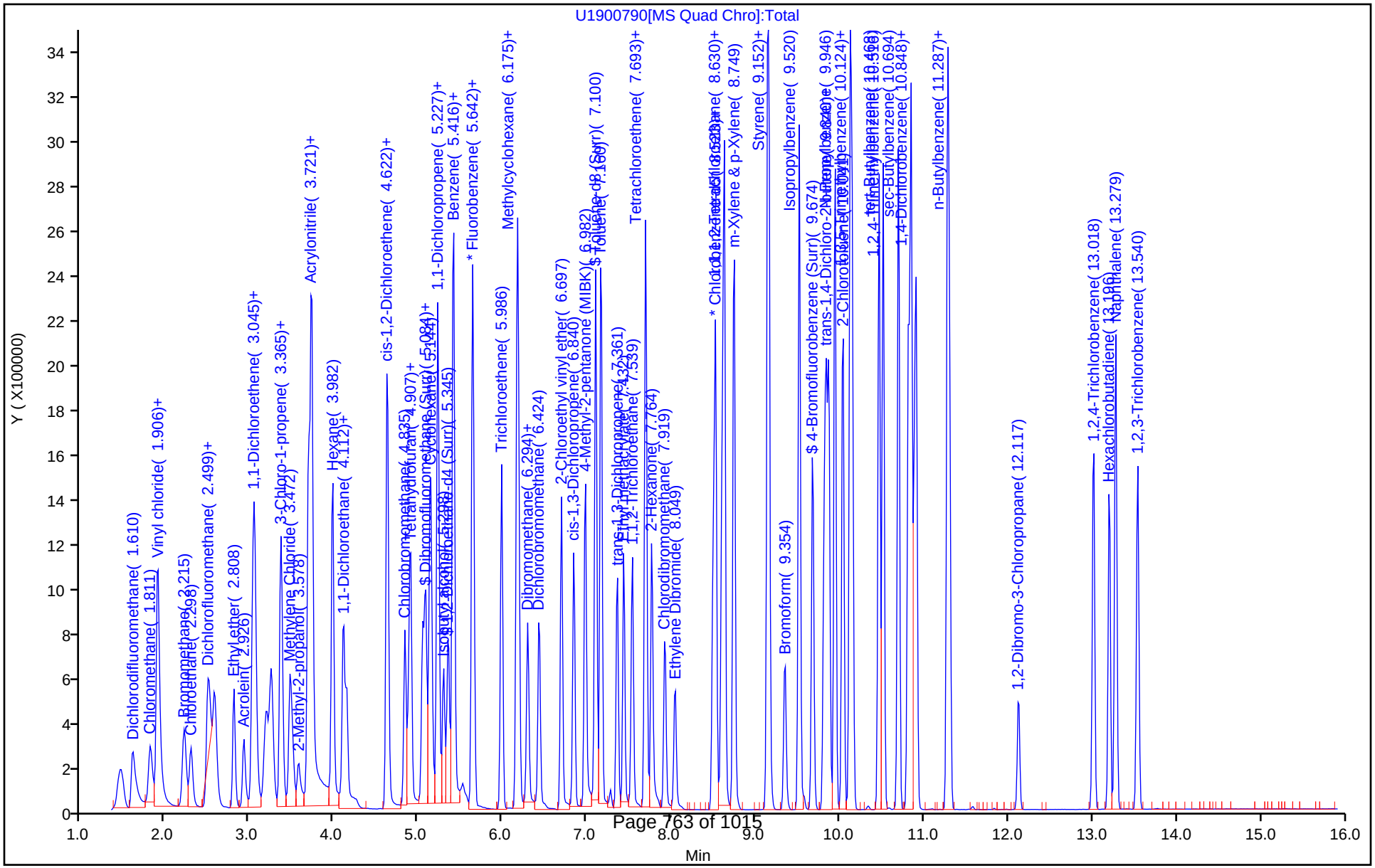
Report Date: 25-Jul-2018 10:13:44 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900790.d

Injection Date:	24-Jul-2018 18:35:32	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



Report Date: 25-Jul-2018 10:13:50 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900791.d
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 24-Jul-2018 18:57:47 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078277-010
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 10:13:48 Calib Date: 24-Jul-2018 20:04:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 09:47:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	96	929533	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	742668	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	89	433286	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	59	235239	20.0	19.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	98	247201	20.0	19.4	
$ 6 Toluene-d8 (Surr)	98	7.101	7.101	0.000	84	849081	20.0	19.0	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	91	320453	20.0	18.7	
9 Dichlorodifluoromethane	85	1.622	1.622	0.000	87	328230	20.0	20.3	
10 Chloromethane	50	1.823	1.823	0.000	89	315290	20.0	20.1	
12 Butadiene	54	1.906	1.906	0.000	86	301883	20.0	19.8	
11 Vinyl chloride	62	1.930	1.930	0.000	74	312915	20.0	20.7	
13 Bromomethane	94	2.227	2.227	0.000	90	229239	20.0	20.1	
14 Chloroethane	64	2.310	2.310	0.000	94	188891	20.0	20.5	
15 Dichlorofluoromethane	67	2.511	2.511	0.000	83	439391	20.0	20.2	
16 Trichlorofluoromethane	101	2.582	2.582	0.000	86	415720	20.0	20.2	
17 Ethyl ether	59	2.820	2.820	0.000	89	180269	20.0	19.5	
18 Acrolein	56	2.938	2.938	0.000	95	227879	100.0	94.0	
21 1,1-Dichloroethene	61	3.033	3.033	0.000	90	347690	20.0	19.7	
20 1,1,2-Trichloro-1,2,2-trif	101	3.057	3.057	0.000	83	247358	20.0	19.7	
22 Acetone	43	3.080	3.080	0.000	74	107763	40.0	35.2	
23 Iodomethane	142	3.199	3.199	0.000	98	440198	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Carbon disulfide	76	3.258	3.258	0.000	98	728690	20.0	18.5	
26 3-Chloro-1-propene	41	3.365	3.365	0.000	82	355801	20.0	19.3	
27 Methyl acetate	43	3.389	3.389	0.000	96	391356	40.0	37.2	
28 Methylene Chloride	49	3.484	3.484	0.000	51	279726	20.0	19.9	
29 2-Methyl-2-propanol	59	3.579	3.579	0.000	7	215092	200.0	187.8	
30 Acrylonitrile	53	3.697	3.697	0.000	99	915892	200.0	192.6	
31 Methyl tert-butyl ether	73	3.733	3.733	0.000	88	654948	20.0	20.3	
32 trans-1,2-Dichloroethene	61	3.733	3.733	0.000	72	329454	20.0	19.0	
33 Hexane	57	3.982	3.982	0.000	91	356826	20.0	18.9	
34 1,1-Dichloroethane	63	4.112	4.112	0.000	85	413734	20.0	20.3	
35 Vinyl acetate	43	4.148	4.148	0.000	97	357825	20.0	19.3	
40 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	67	281663	20.0	19.7	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	61	247316	20.0	20.1	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	69	66486	40.0	38.1	
45 Chlorobromomethane	49	4.836	4.836	0.000	72	180080	20.0	19.1	
46 Tetrahydrofuran	42	4.883	4.883	0.000	87	169823	40.0	37.6	
47 Chloroform	83	4.907	4.907	0.000	70	422069	20.0	19.9	
48 1,1,1-Trichloroethane	97	5.085	5.085	0.000	56	378348	20.0	19.8	
49 Cyclohexane	84	5.144	5.144	0.000	85	386296	20.0	19.3	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	92	334178	20.0	19.2	
51 Carbon tetrachloride	117	5.239	5.239	0.000	70	345961	20.0	19.5	
52 Isobutyl alcohol	41	5.298	5.298	0.000	69	183028	500.0	448.2	
54 1,2-Dichloroethane	62	5.417	5.417	0.000	45	289097	20.0	18.9	
53 Benzene	78	5.417	5.417	0.000	94	930203	20.0	19.5	
56 n-Heptane	57	5.642	5.642	0.000	84	216048	20.0	18.9	
58 Trichloroethene	130	5.986	5.986	0.000	92	285190	20.0	19.4	
60 Methylcyclohexane	83	6.176	6.176	0.000	89	461990	20.0	19.4	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	84	210992	20.0	19.7	
63 Dibromomethane	174	6.294	6.294	0.000	93	196594	20.0	19.8	
64 1,4-Dioxane	88	6.306	6.306	0.000	33	43840	400.0	415.4	
65 Dichlorobromomethane	83	6.436	6.436	0.000	93	290639	20.0	19.4	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	91	315645	40.0	39.7	
68 cis-1,3-Dichloropropene	75	6.840	6.840	0.000	91	347181	20.0	19.8	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	93	554613	40.0	39.0	
70 Toluene	91	7.172	7.172	0.000	94	985962	20.0	18.6	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	82	315763	20.0	18.6	
72 Ethyl methacrylate	69	7.433	7.433	0.000	87	305349	20.0	18.9	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	74	202390	20.0	19.5	
75 Tetrachloroethene	166	7.693	7.693	0.000	97	300622	20.0	19.2	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	87	344194	20.0	19.1	
77 2-Hexanone	43	7.765	7.765	0.000	79	411400	40.0	37.9	
79 Chlorodibromomethane	129	7.931	7.931	0.000	87	237418	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
80 Ethylene Dibromide	107	8.049	8.049	0.000	99	223763	20.0	18.9	
82 Chlorobenzene	112	8.524	8.524	0.000	96	672294	20.0	19.0	
83 1,1,1,2-Tetrachloroethane	131	8.607	8.607	0.000	86	245845	20.0	20.2	
84 Ethylbenzene	106	8.630	8.630	0.000	97	371072	20.0	19.7	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	455770	20.0	19.6	
86 o-Xylene	106	9.152	9.152	0.000	87	446659	20.0	19.9	
87 Styrene	104	9.152	9.152	0.000	88	733164	20.0	19.7	
88 Bromoform	173	9.354	9.354	0.000	98	190577	20.0	19.2	
89 Isopropylbenzene	105	9.520	9.520	0.000	95	1178300	20.0	19.8	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	87	331847	20.0	19.2	
92 Bromobenzene	156	9.840	9.840	0.000	80	313555	20.0	19.2	
93 1,2,3-Trichloropropane	110	9.864	9.864	0.000	68	114884	20.0	18.8	
94 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	52	97955	20.0	18.5	
95 N-Propylbenzene	120	9.947	9.947	0.000	91	334963	20.0	19.3	
96 2-Chlorotoluene	126	10.041	10.041	0.000	94	293354	20.0	19.7	
97 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	93	980405	20.0	20.0	
98 4-Chlorotoluene	126	10.148	10.148	0.000	97	300515	20.0	19.3	
99 tert-Butylbenzene	119	10.468	10.468	0.000	76	908078	20.0	19.3	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	70	1006317	20.0	19.8	
102 sec-Butylbenzene	105	10.694	10.694	0.000	94	1286147	20.0	19.7	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	84	598840	20.0	18.9	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	90	1117286	20.0	20.0	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	93	606688	20.0	18.4	
108 n-Butylbenzene	91	11.275	11.275	0.000	98	958018	20.0	19.8	
109 1,2-Dichlorobenzene	146	11.298	11.298	0.000	97	559506	20.0	19.3	
110 1,2-Dibromo-3-Chloropropan	157	12.129	12.129	0.000	92	99335	20.0	19.3	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	90	379757	20.0	19.1	
113 Hexachlorobutadiene	225	13.196	13.196	0.000	92	199490	20.0	19.2	
114 Naphthalene	128	13.279	13.279	0.000	96	1094286	20.0	19.5	
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	94	351575	20.0	19.5	
S 127 Trihalomethanes, Total	1				0		80.0	77.7	
S 164 Total BTEX	1				0		100.0	97.3	
S 126 Xylenes, Total	106				0		40.0	39.5	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmrgas_00255	Amount Added:	16.00	Units: uL
vmarolistdw_00256	Amount Added:	16.00	Units: uL
vmrprimw_00292	Amount Added:	16.00	Units: uL
vm50ss_00329	Amount Added:	16.00	Units: uL

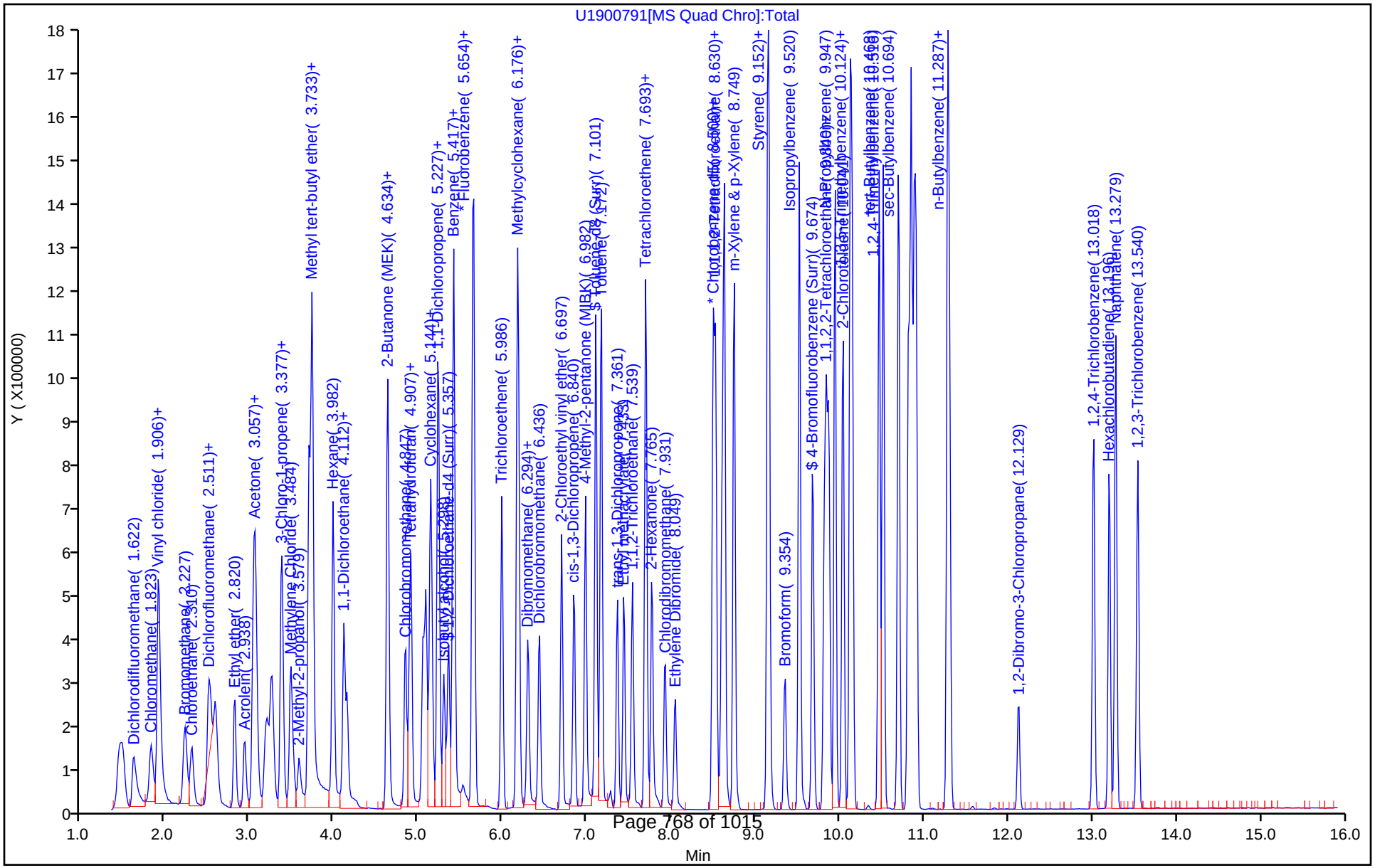
Report Date: 25-Jul-2018 10:13:50 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900791.d

Injection Date:	24-Jul-2018 18:57:47	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\20180724-78277.b\U1900792.d
Lims ID: std8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 24-Jul-2018 19:20:02 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078277-011
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 10:13:54 Calib Date: 24-Jul-2018 20:04:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 09:49:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.653	5.654	-0.001	98	952790	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	83	771801	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	92	425561	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	60	119809	10.0	9.71	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	90	125069	10.0	9.57	
$ 6 Toluene-d8 (Surr)	98	7.100	7.101	-0.001	89	467380	10.0	10.1	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	91	172585	10.0	9.67	
9 Dichlorodifluoromethane	85	1.598	1.622	-0.024	86	151920	10.0	9.16	
10 Chloromethane	50	1.811	1.823	-0.012	78	155433	10.0	9.68	
12 Butadiene	54	1.894	1.906	-0.012	88	137925	10.0	8.83	
11 Vinyl chloride	62	1.918	1.930	-0.012	73	148293	10.0	9.55	
13 Bromomethane	94	2.214	2.227	-0.013	91	114577	10.0	9.81	
14 Chloroethane	64	2.297	2.310	-0.013	94	93395	10.0	9.89	
15 Dichlorofluoromethane	67	2.499	2.511	-0.012	82	215631	10.0	9.68	
16 Trichlorofluoromethane	101	2.570	2.582	-0.012	98	187339	10.0	8.89	
17 Ethyl ether	59	2.807	2.820	-0.013	87	90620	10.0	9.57	
18 Acrolein	56	2.926	2.938	-0.012	95	106196	50.0	42.7	
21 1,1-Dichloroethene	61	3.033	3.033	0.000	90	185910	10.0	10.3	
20 1,1,2-Trichloro-1,2,2-trif	101	3.045	3.057	-0.012	76	134365	10.0	10.4	
22 Acetone	43	3.068	3.080	-0.012	55	52355	20.0	16.7	
23 Iodomethane	142	3.187	3.199	-0.012	97	228493	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	3.246	3.258	-0.012	98	387941	10.0	9.62	
26 3-Chloro-1-propene	41	3.365	3.365	0.000	82	184068	10.0	9.73	
27 Methyl acetate	43	3.377	3.389	-0.012	84	197122	20.0	18.3	
28 Methylene Chloride	49	3.471	3.484	-0.013	57	144386	10.0	10.0	
29 2-Methyl-2-propanol	59	3.578	3.579	0.000	32	110777	100.0	94.4	
30 Acrylonitrile	53	3.697	3.697	0.000	99	448754	100.0	92.1	
32 trans-1,2-Dichloroethene	61	3.732	3.733	-0.001	71	175373	10.0	9.87	
31 Methyl tert-butyl ether	73	3.732	3.733	-0.001	88	335243	10.0	10.1	
33 Hexane	57	3.981	3.982	-0.001	90	208123	10.0	10.7	
34 1,1-Dichloroethane	63	4.112	4.112	0.000	97	213583	10.0	10.2	
35 Vinyl acetate	43	4.147	4.148	-0.001	96	187841	10.0	9.87	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	71	34072	20.0	19.0	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	65	134434	10.0	10.7	
40 cis-1,2-Dichloroethene	96	4.622	4.634	-0.012	69	143871	10.0	9.80	
45 Chlorobromomethane	49	4.835	4.836	-0.001	84	89489	10.0	9.27	
46 Tetrahydrofuran	42	4.883	4.883	0.000	87	86462	20.0	18.7	
47 Chloroform	83	4.906	4.907	-0.001	70	213657	10.0	9.83	
48 1,1,1-Trichloroethane	97	5.084	5.085	-0.001	90	206006	10.0	10.5	
49 Cyclohexane	84	5.144	5.144	0.000	85	214696	10.0	10.5	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	93	182947	10.0	10.3	
51 Carbon tetrachloride	117	5.238	5.239	-0.001	69	187898	10.0	10.3	
52 Isobutyl alcohol	41	5.298	5.298	0.000	69	105355	250.0	251.7	
53 Benzene	78	5.416	5.417	-0.001	94	494183	10.0	10.1	
54 1,2-Dichloroethane	62	5.416	5.417	-0.001	46	152677	10.0	9.72	
56 n-Heptane	57	5.642	5.642	0.000	60	135257	10.0	10.5	
58 Trichloroethene	130	5.985	5.986	-0.001	91	155201	10.0	10.3	
60 Methylcyclohexane	83	6.175	6.176	-0.001	89	256970	10.0	10.5	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	84	110015	10.0	10.0	
63 Dibromomethane	174	6.294	6.294	0.000	91	95707	10.0	9.42	
64 1,4-Dioxane	88	6.306	6.306	0.000	33	23290	200.0	215.3	
65 Dichlorobromomethane	83	6.436	6.436	0.000	93	152581	10.0	9.92	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	86	171233	20.0	21.0	
68 cis-1,3-Dichloropropene	75	6.839	6.840	-0.001	93	175580	10.0	9.76	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	93	308673	20.0	21.2	
70 Toluene	91	7.171	7.172	-0.001	94	544060	10.0	9.89	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	85	172822	10.0	9.78	
72 Ethyl methacrylate	69	7.432	7.433	-0.001	88	166277	10.0	9.93	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	80	109350	10.0	10.1	
75 Tetrachloroethene	166	7.693	7.693	0.000	91	166266	10.0	10.2	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	87	188817	10.0	10.1	
77 2-Hexanone	43	7.764	7.765	-0.001	80	235229	20.0	20.8	
79 Chlorodibromomethane	129	7.930	7.931	-0.001	86	125585	10.0	9.75	

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	121691	10.0	9.89	
82 Chlorobenzene	112	8.523	8.524	-0.001	97	362449	10.0	9.86	
83 1,1,1,2-Tetrachloroethane	131	8.606	8.607	-0.001	80	126948	10.0	10.1	
84 Ethylbenzene	106	8.630	8.630	0.000	98	197845	10.0	10.1	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	245222	10.0	10.1	
87 Styrene	104	9.152	9.152	0.000	88	391122	10.0	10.1	
86 o-Xylene	106	9.152	9.152	0.000	87	240986	10.0	10.3	
88 Bromoform	173	9.353	9.354	-0.001	98	100560	10.0	9.77	
89 Isopropylbenzene	105	9.519	9.520	-0.001	95	636049	10.0	10.3	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	88	173948	10.0	10.3	
92 Bromobenzene	156	9.840	9.840	0.000	87	164497	10.0	10.2	
93 1,2,3-Trichloropropane	110	9.863	9.864	-0.001	69	63108	10.0	10.5	
94 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	64	51819	10.0	9.96	
95 N-Propylbenzene	120	9.946	9.947	-0.001	96	181166	10.0	10.6	
96 2-Chlorotoluene	126	10.041	10.041	0.000	96	151745	10.0	10.4	
97 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	93	517511	10.0	10.7	
98 4-Chlorotoluene	126	10.148	10.148	0.000	97	160173	10.0	10.5	
99 tert-Butylbenzene	119	10.468	10.468	0.000	77	490442	10.0	10.6	
101 1,2,4-Trimethylbenzene	105	10.515	10.516	-0.001	70	518127	10.0	10.4	
102 sec-Butylbenzene	105	10.693	10.694	-0.001	94	681132	10.0	10.6	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	82	309437	10.0	9.93	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	91	582655	10.0	10.6	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	91	316046	10.0	9.78	
108 n-Butylbenzene	91	11.274	11.275	-0.001	97	498908	10.0	10.5	
109 1,2-Dichlorobenzene	146	11.298	11.298	0.000	97	286113	10.0	10.0	
110 1,2-Dibromo-3-Chloropropan	157	12.128	12.129	-0.001	88	48670	10.0	9.63	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	92	189226	10.0	9.67	
113 Hexachlorobutadiene	225	13.207	13.196	0.011	85	103707	10.0	10.2	
114 Naphthalene	128	13.279	13.279	0.000	96	544587	10.0	9.87	
115 1,2,3-Trichlorobenzene	180	13.539	13.540	-0.001	96	177768	10.0	10.0	
S 164 Total BTEX	1				0		50.0	50.6	
S 127 Trihalomethanes, Total	1				0		40.0	39.3	
S 124 1,2-Dichloroethene, Total	96				0			19.7	
S 125 1,3-Dichloropropene, Total	75				0			19.5	
S 126 Xylenes, Total	106				0		20.0	20.5	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmrgas_00255	Amount Added:	8.00	Units: uL
vmarolistdw_00256	Amount Added:	8.00	Units: uL
vmrprimw_00292	Amount Added:	8.00	Units: uL
vm50ss_00329	Amount Added:	8.00	Units: uL

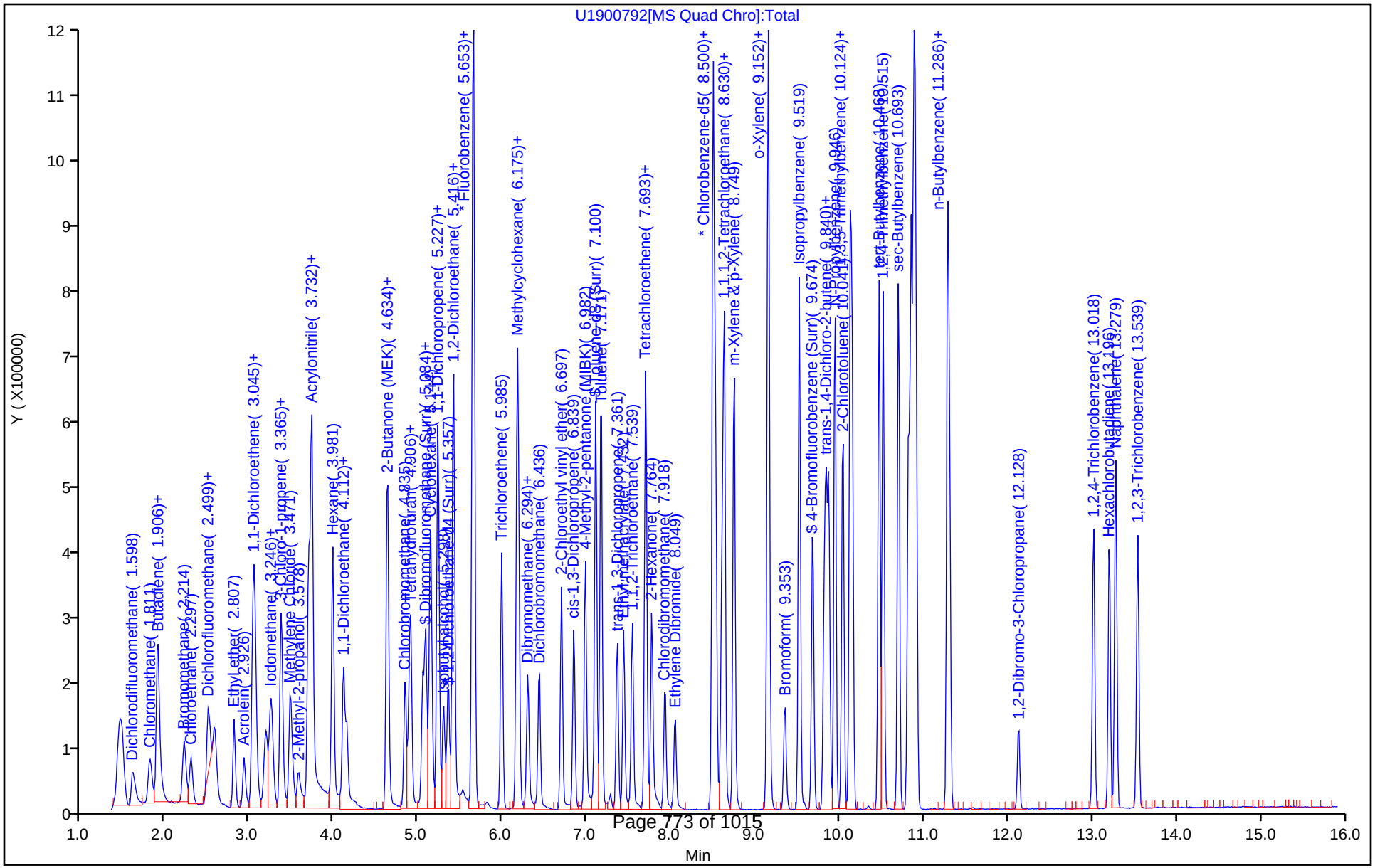
Report Date: 25-Jul-2018 10:13:56 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900792.d

Injection Date:	24-Jul-2018 19:20:02	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



Report Date: 25-Jul-2018 10:14:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900793.d
Lims ID: std8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 24-Jul-2018 19:42:05 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078277-012
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 10:14:00 Calib Date: 24-Jul-2018 20:04:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 09:51:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	99	894422	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	82	708670	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.884	10.883	0.001	93	428230	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	60	11849	1.00	1.02	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	88	13421	1.00	1.09	
$ 6 Toluene-d8 (Surr)	98	7.101	7.101	0.000	87	42636	1.00	1.00	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	86	17427	1.00	1.06	
9 Dichlorodifluoromethane	85	1.610	1.622	-0.012	74	14647	1.00	0.9411	
10 Chloromethane	50	1.812	1.823	-0.011	89	16570	1.00	1.10	
12 Butadiene	54	1.895	1.906	-0.011	88	15313	1.00	1.04	
11 Vinyl chloride	62	1.930	1.930	0.000	70	15847	1.00	1.09	
13 Bromomethane	94	2.215	2.227	-0.012	77	12818	1.00	1.17	
14 Chloroethane	64	2.298	2.310	-0.012	70	9377	1.00	1.06	
15 Dichlorofluoromethane	67	2.499	2.511	-0.012	82	21989	1.00	1.05	
16 Trichlorofluoromethane	101	2.559	2.582	-0.023	73	20928	1.00	1.06	
17 Ethyl ether	59	2.808	2.820	-0.012	80	9442	1.00	1.06	
18 Acrolein	56	2.926	2.938	-0.012	86	11339	5.00	4.86	
21 1,1-Dichloroethene	61	3.033	3.033	0.000	92	17119	1.00	1.01	
20 1,1,2-Trichloro-1,2,2-trif	101	3.057	3.057	0.000	63	12789	1.00	1.06	
22 Acetone	43	3.069	3.080	-0.011	66	7064	2.00	2.40	
23 Iodomethane	142	3.187	3.199	-0.012	96	21574	1.00	1.03	

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	3.247	3.258	-0.011	96	43688	1.00	1.15	
26 3-Chloro-1-propene	41	3.365	3.365	0.000	84	18985	1.00	1.07	
27 Methyl acetate	43	3.389	3.389	0.000	92	19667	2.00	1.94	
28 Methylene Chloride	49	3.472	3.484	-0.012	75	15117	1.00	1.12	
29 2-Methyl-2-propanol	59	3.579	3.579	0.001	70	12788	10.0	11.6	
30 Acrylonitrile	53	3.697	3.697	0.000	100	41875	10.0	9.15	
31 Methyl tert-butyl ether	73	3.733	3.733	0.000	87	32315	1.00	1.04	
32 trans-1,2-Dichloroethene	61	3.733	3.733	0.000	73	17800	1.00	1.07	
33 Hexane	57	3.982	3.982	0.000	92	18280	1.00	1.00	
34 1,1-Dichloroethane	63	4.112	4.112	0.000	83	19272	1.00	0.9804	
35 Vinyl acetate	43	4.148	4.148	0.000	95	16923	1.00	0.9468	
40 cis-1,2-Dichloroethene	96	4.622	4.634	-0.012	78	14795	1.00	1.07	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	56	12773	1.00	1.08	
41 2-Butanone (MEK)	72	4.634	4.634	0.000	60	3193	2.00	1.90	
45 Chlorobromomethane	49	4.836	4.836	0.000	67	9868	1.00	1.09	
46 Tetrahydrofuran	42	4.883	4.883	0.000	84	9301	2.00	2.14	
47 Chloroform	83	4.907	4.907	0.000	66	21458	1.00	1.05	
48 1,1,1-Trichloroethane	97	5.085	5.085	0.000	80	17835	1.00	0.9707	
49 Cyclohexane	84	5.144	5.144	0.000	82	19597	1.00	1.02	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	87	17455	1.00	1.04	
51 Carbon tetrachloride	117	5.239	5.239	0.000	75	17198	1.00	1.01	
52 Isobutyl alcohol	41	5.298	5.298	0.000	89	7910	25.0	20.1	
54 1,2-Dichloroethane	62	5.417	5.417	0.000	50	15873	1.00	1.08	
53 Benzene	78	5.417	5.417	0.000	94	48419	1.00	1.06	
56 n-Heptane	57	5.654	5.642	0.012	38	35642	1.00	1.01	
58 Trichloroethene	130	5.986	5.986	0.000	84	14571	1.00	1.03	
60 Methylcyclohexane	83	6.176	6.176	0.000	88	22689	1.00	0.9886	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	79	10704	1.00	1.04	
63 Dibromomethane	174	6.294	6.294	0.000	82	9635	1.00	1.01	
64 1,4-Dioxane	88	6.318	6.306	0.012	1	1478	20.0	14.6	
65 Dichlorobromomethane	83	6.425	6.436	-0.011	87	13539	1.00	0.9376	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	82	14128	2.00	1.84	
68 cis-1,3-Dichloropropene	75	6.840	6.840	0.000	76	17042	1.00	1.01	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	91	26811	2.00	1.96	
70 Toluene	91	7.172	7.172	0.000	93	51989	1.00	1.03	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	75	16254	1.00	1.00	
72 Ethyl methacrylate	69	7.433	7.433	0.000	77	14391	1.00	0.9357	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	74	9825	1.00	0.99	
75 Tetrachloroethene	166	7.694	7.693	0.001	89	14983	1.00	1.00	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	77	17817	1.00	1.03	
77 2-Hexanone	43	7.777	7.765	0.012	67	19416	2.00	1.87	
79 Chlorodibromomethane	129	7.931	7.931	0.000	74	11860	1.00	1.00	

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	11944	1.00	1.06	
82 Chlorobenzene	112	8.524	8.524	0.000	65	36126	1.00	1.07	
83 1,1,1,2-Tetrachloroethane	131	8.607	8.607	0.000	59	11650	1.00	1.01	
84 Ethylbenzene	106	8.630	8.630	0.000	96	18517	1.00	1.03	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	21784	1.00	0.9817	
86 o-Xylene	106	9.140	9.152	-0.012	91	20892	1.00	0.9751	
87 Styrene	104	9.152	9.152	0.000	88	33956	1.00	0.9551	
88 Bromoform	173	9.354	9.354	0.000	82	8645	1.00	0.9144	
89 Isopropylbenzene	105	9.520	9.520	0.000	91	55210	1.00	0.9739	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	77	17817	1.00	1.04	
92 Bromobenzene	156	9.840	9.840	0.000	89	15559	1.00	0.9619	
93 1,2,3-Trichloropropane	110	9.864	9.864	0.000	70	5494	1.00	0.9090	
94 trans-1,4-Dichloro-2-buten	53	9.864	9.875	-0.011	44	4738	1.00	0.9051	
95 N-Propylbenzene	120	9.947	9.947	0.000	94	16107	1.00	0.9402	
96 2-Chlorotoluene	126	10.042	10.041	0.001	93	15255	1.00	1.04	
97 1,3,5-Trimethylbenzene	105	10.125	10.124	0.001	93	45567	1.00	0.9397	
98 4-Chlorotoluene	126	10.148	10.148	0.000	94	15545	1.00	1.01	
99 tert-Butylbenzene	119	10.468	10.468	0.000	88	47758	1.00	1.02	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	68	49545	1.00	0.9846	
102 sec-Butylbenzene	105	10.694	10.694	0.000	90	61320	1.00	0.9521	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	11	33191	1.00	1.06	
104 4-Isopropyltoluene	119	10.848	10.848	0.000	82	50862	1.00	0.9208	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	52	35488	1.00	1.09	
108 n-Butylbenzene	91	11.275	11.275	0.000	94	45503	1.00	0.9538	
109 1,2-Dichlorobenzene	146	11.299	11.298	0.001	94	30581	1.00	1.07	
110 1,2-Dibromo-3-Chloropropan	157	12.129	12.129	0.000	47	4764	1.00	0.9369	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	82	21592	1.00	1.10	
113 Hexachlorobutadiene	225	13.208	13.196	0.012	66	10992	1.00	1.07	
114 Naphthalene	128	13.279	13.279	0.000	93	57589	1.00	1.04	
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	86	18094	1.00	1.02	
S 127 Trihalomethanes, Total	1				0		4.00	3.91	
S 164 Total BTEX	1				0		5.00	5.07	
S 124 1,2-Dichloroethene, Total	96				0			2.14	
S 125 1,3-Dichloropropene, Total	75				0			2.01	
S 126 Xylenes, Total	106				0		2.00	1.96	

Reagents:

vm50is_stk_A_00001	Amount Added:	2.00	Units: uL
vmrgas_00255	Amount Added:	0.80	Units: uL
vmarolistdw_00256	Amount Added:	0.80	Units: uL
vmrprimw_00292	Amount Added:	0.80	Units: uL
vm50ss_00329	Amount Added:	0.80	Units: uL

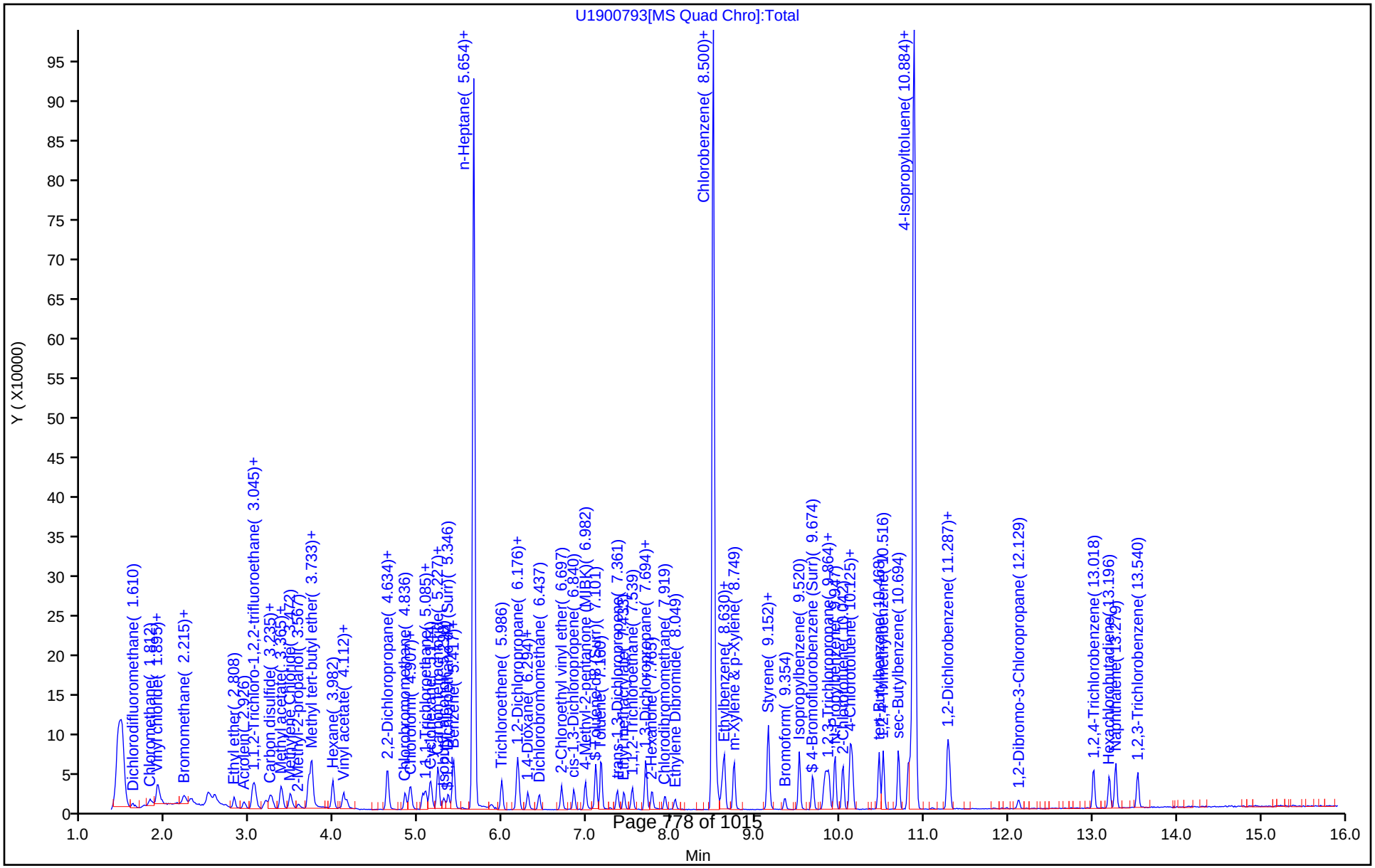
Report Date: 25-Jul-2018 10:14:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900793.d

Injection Date:	24-Jul-2018 19:42:05	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



Report Date: 25-Jul-2018 10:14:11 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d
Lims ID: std8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 24-Jul-2018 20:04:28 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078277-013
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 25-Jul-2018 10:14:09 Calib Date: 24-Jul-2018 20:04:28
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: laveyt Date: 25-Jul-2018 09:56:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.654	5.654	0.000	99	923893	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	731189	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	93	428789	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	56	6754	0.5000	0.5647	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	75	7422	0.5000	0.5855	
$ 6 Toluene-d8 (Surr)	98	7.100	7.101	-0.001	74	22890	0.5000	0.5200	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	79	10413	0.5000	0.6156	
9 Dichlorodifluoromethane	85	1.633	1.622	0.011	62	6894	0.5000	0.4288	
10 Chloromethane	50	1.823	1.823	0.000	71	8217	0.5000	0.5278	
12 Butadiene	54	1.906	1.906	0.000	82	7871	0.5000	0.5198	
11 Vinyl chloride	62	1.930	1.930	0.000	64	6342	0.5000	0.4211	
13 Bromomethane	94	2.238	2.227	0.011	71	6350	0.5000	0.5606	
14 Chloroethane	64	2.309	2.310	-0.001	60	4872	0.5000	0.5321	
15 Dichlorofluoromethane	67	2.511	2.511	0.000	53	12059	0.5000	0.5584	
16 Trichlorofluoromethane	101	2.582	2.582	0.000	75	10381	0.5000	0.5081	
17 Ethyl ether	59	2.819	2.820	-0.001	67	5066	0.5000	0.5520	
18 Acrolein	56	2.938	2.938	0.000	82	6772	2.50	2.81	
21 1,1-Dichloroethene	61	3.045	3.033	0.012	68	8796	0.5000	0.5026	
20 1,1,2-Trichloro-1,2,2-trif	101	3.057	3.057	-0.001	56	6009	0.5000	0.4815	
22 Acetone	43		3.080				ND	ND	U
23 Iodomethane	142	3.187	3.199	-0.012	82	10728	0.5000	0.4956	

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	3.246	3.258	-0.012	95	23708	0.5000	0.6063	
26 3-Chloro-1-propene	41	3.365	3.365	0.000	77	9784	0.5000	0.5336	
27 Methyl acetate	43	3.389	3.389	0.000	86	13362	1.00	1.28	
28 Methylene Chloride	49		3.484				ND	ND	U
29 2-Methyl-2-propanol	59		3.579				ND	ND	U
30 Acrylonitrile	53	3.697	3.697	0.000	99	26540	5.00	5.62	
32 trans-1,2-Dichloroethene	61	3.732	3.733	-0.001	74	9868	0.5000	0.5730	
31 Methyl tert-butyl ether	73	3.732	3.733	-0.001	83	15911	0.5000	0.4958	
33 Hexane	57	3.981	3.982	-0.001	90	9277	0.5000	0.4936	
34 1,1-Dichloroethane	63	4.112	4.112	0.000	54	9924	0.5000	0.4888	
35 Vinyl acetate	43	4.148	4.148	0.000	95	9654	0.5000	0.5229	
41 2-Butanone (MEK)	72		4.634				ND	ND	
39 2,2-Dichloropropane	77	4.634	4.634	0.000	46	6159	0.5000	0.5045	
40 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	56	7528	0.5000	0.5287	
45 Chlorobromomethane	49	4.835	4.836	-0.001	65	5651	0.5000	0.6036	
46 Tetrahydrofuran	42	4.895	4.883	0.012	78	4596	1.00	1.02	
47 Chloroform	83	4.906	4.907	-0.001	60	10692	0.5000	0.5074	
48 1,1,1-Trichloroethane	97	5.084	5.085	-0.001	72	9137	0.5000	0.4814	
49 Cyclohexane	84	5.144	5.144	0.000	79	9806	0.5000	0.4936	
50 1,1-Dichloropropene	75	5.227	5.227	0.000	85	8674	0.5000	0.5025	
51 Carbon tetrachloride	117	5.239	5.239	-0.001	69	8406	0.5000	0.4757	
52 Isobutyl alcohol	41	5.298	5.298	0.000	73	5482	12.5	13.5	
53 Benzene	78	5.416	5.417	-0.001	94	22844	0.5000	0.4820	
54 1,2-Dichloroethane	62	5.416	5.417	-0.001	40	8485	0.5000	0.5573	
56 n-Heptane	57		5.642				ND	ND	U
58 Trichloroethene	130	5.986	5.986	0.000	83	7211	0.5000	0.4940	
60 Methylcyclohexane	83	6.175	6.176	-0.001	83	11515	0.5000	0.4857	
61 1,2-Dichloropropane	63	6.187	6.187	0.000	62	4734	0.5000	0.4448	
63 Dibromomethane	174	6.306	6.294	0.012	67	5496	0.5000	0.5580	
64 1,4-Dioxane	88		6.306				ND	ND	U
65 Dichlorobromomethane	83	6.436	6.436	0.000	71	7466	0.5000	0.5005	
67 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	76	7395	1.00	0.9347	
68 cis-1,3-Dichloropropene	75	6.839	6.840	-0.001	66	8313	0.5000	0.4764	
69 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	86	13091	1.00	0.9263	
70 Toluene	91	7.171	7.172	-0.001	90	28549	0.5000	0.5479	
71 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	72	8702	0.5000	0.5197	
72 Ethyl methacrylate	69	7.432	7.433	-0.001	67	7650	0.5000	0.4821	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	65	4656	0.5000	0.4562	
75 Tetrachloroethene	166	7.693	7.693	0.000	89	7470	0.5000	0.4851	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	73	8871	0.5000	0.4993	
77 2-Hexanone	43	7.764	7.765	-0.001	87	10457	1.00	0.9783	
79 Chlorodibromomethane	129	7.919	7.931	-0.012	51	5763	0.5000	0.4723	

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	69	6061	0.5000	0.5198	
82 Chlorobenzene	112	8.523	8.524	-0.001	47	18258	0.5000	0.5243	
83 1,1,1,2-Tetrachloroethane	131	8.606	8.607	-0.001	47	5213	0.5000	0.4361	
84 Ethylbenzene	106	8.630	8.630	0.000	92	8398	0.5000	0.4528	
85 m-Xylene & p-Xylene	106	8.749	8.749	0.000	96	11276	0.5000	0.4925	
87 Styrene	104	9.152	9.152	0.000	84	17512	0.5000	0.4774	
86 o-Xylene	106	9.152	9.152	0.000	82	10860	0.5000	0.4913	
88 Bromoform	173		9.354				ND	ND	U
89 Isopropylbenzene	105	9.519	9.520	-0.001	87	28418	0.5000	0.4859	
91 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	49	8105	0.5000	0.4742	
92 Bromobenzene	156	9.840	9.840	0.000	80	8740	0.5000	0.5396	
93 1,2,3-Trichloropropane	110	9.863	9.864	-0.001	57	3387	0.5000	0.5596	
94 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	36	2893	0.5000	0.5519	
95 N-Propylbenzene	120	9.946	9.947	-0.001	90	8359	0.5000	0.4873	
96 2-Chlorotoluene	126	10.041	10.041	0.000	86	6977	0.5000	0.4728	
97 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	88	22067	0.5000	0.4545	
98 4-Chlorotoluene	126	10.148	10.148	0.000	89	7717	0.5000	0.4998	
99 tert-Butylbenzene	119	10.468	10.468	0.000	82	22397	0.5000	0.4799	
101 1,2,4-Trimethylbenzene	105	10.516	10.516	0.000	62	24672	0.5000	0.4897	
102 sec-Butylbenzene	105	10.693	10.694	-0.001	78	30350	0.5000	0.4706	
103 1,3-Dichlorobenzene	146	10.812	10.812	0.000	1	17372	0.5000	0.5533	a
104 4-Isopropyltoluene	119	10.848	10.848	0.000	80	25586	0.5000	0.4626	
105 1,4-Dichlorobenzene	146	10.907	10.907	0.000	42	19169	0.5000	0.5888	
108 n-Butylbenzene	91	11.275	11.275	0.000	91	21675	0.5000	0.4537	
109 1,2-Dichlorobenzene	146	11.298	11.298	0.000	87	14939	0.5000	0.5204	
110 1,2-Dibromo-3-Chloropropan	157	12.128	12.129	-0.001	24	2566	0.5000	0.5040	
112 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	65	10787	0.5000	0.5471	
113 Hexachlorobutadiene	225	13.196	13.196	0.000	52	5347	0.5000	0.5195	
114 Naphthalene	128	13.279	13.279	0.000	81	27099	0.5000	0.4874	
115 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	60	8865	0.5000	0.4972	
S 164 Total BTEX	1				0		2.50	2.47	
S 127 Trihalomethanes, Total	1				0		2.00	1.48	
S 124 1,2-Dichloroethene, Total	96				0			1.10	
S 125 1,3-Dichloropropene, Total	75				0			1.00	
S 126 Xylenes, Total	106				0		1.00	0.9838	

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_00255	Amount Added:	0.40	Units: uL
vmarolistdw_00256	Amount Added:	0.40	Units: uL
vmrprimw_00292	Amount Added:	0.40	Units: uL
vm50ss_00329	Amount Added:	0.40	Units: uL

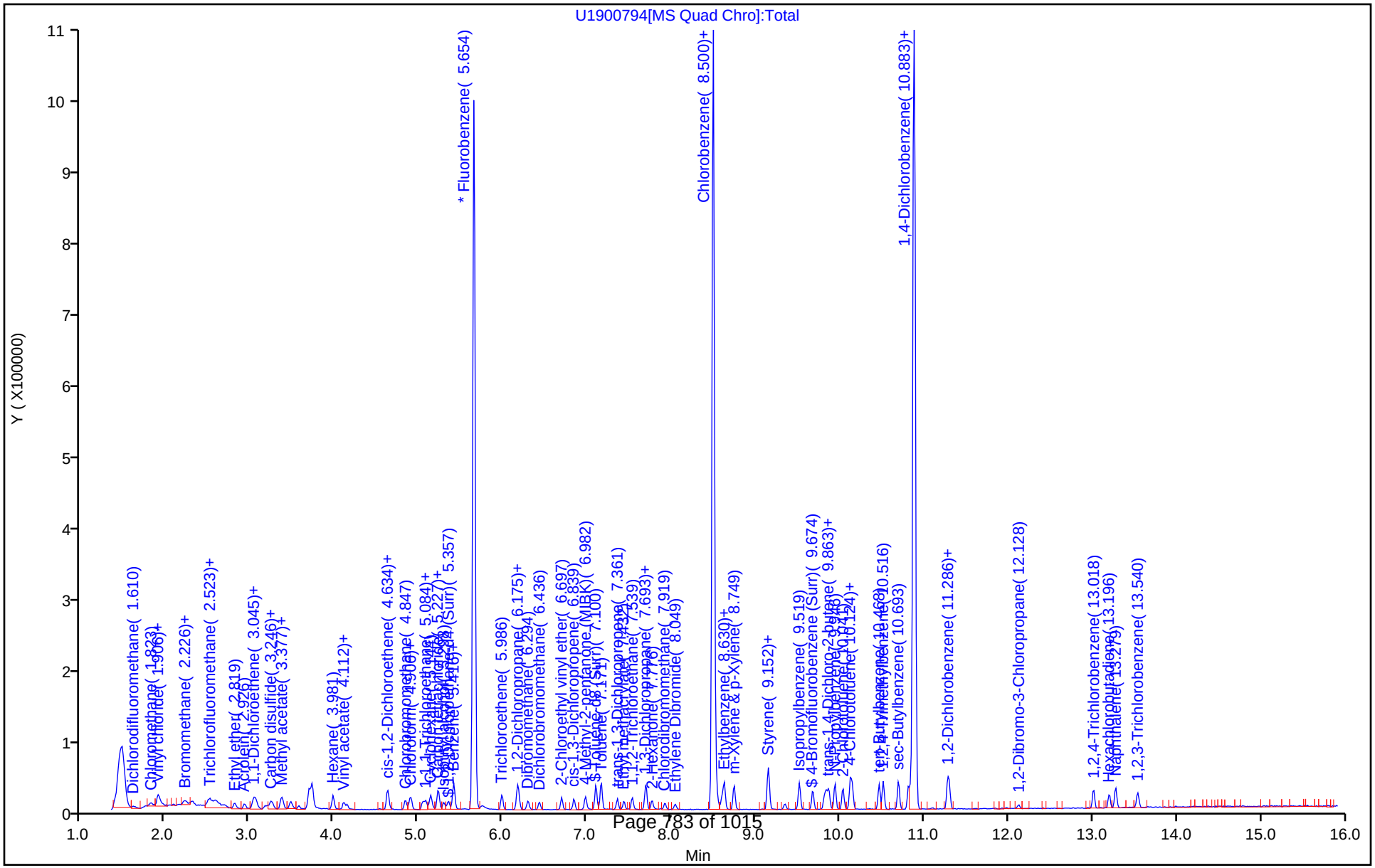
Report Date: 25-Jul-2018 10:14:11 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d

Injection Date:	24-Jul-2018 20:04:28	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

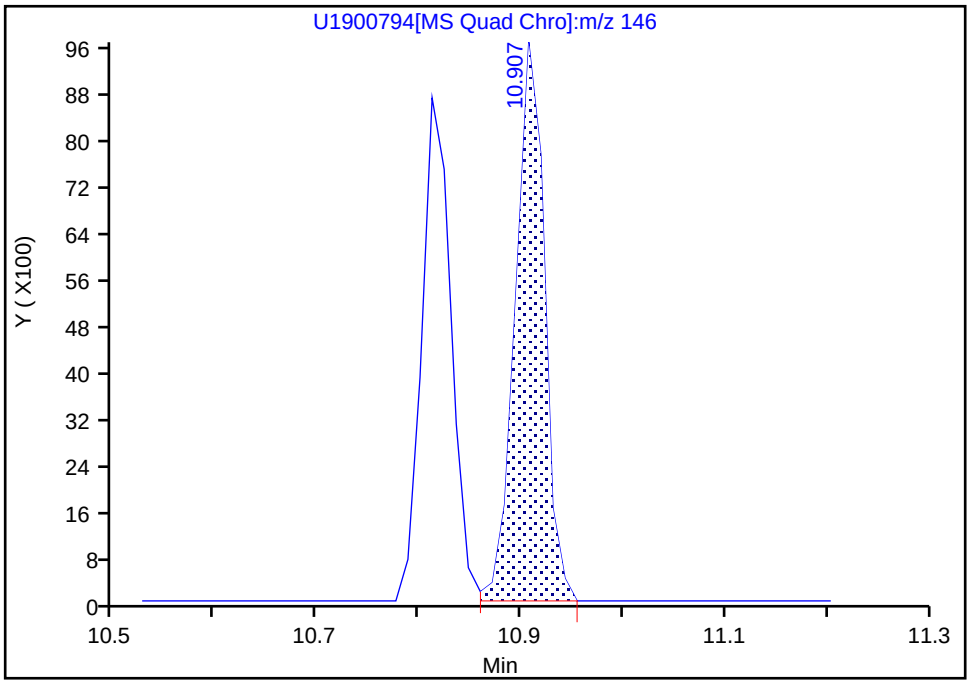
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d				
Injection Date:	24-Jul-2018 20:04:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

103 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

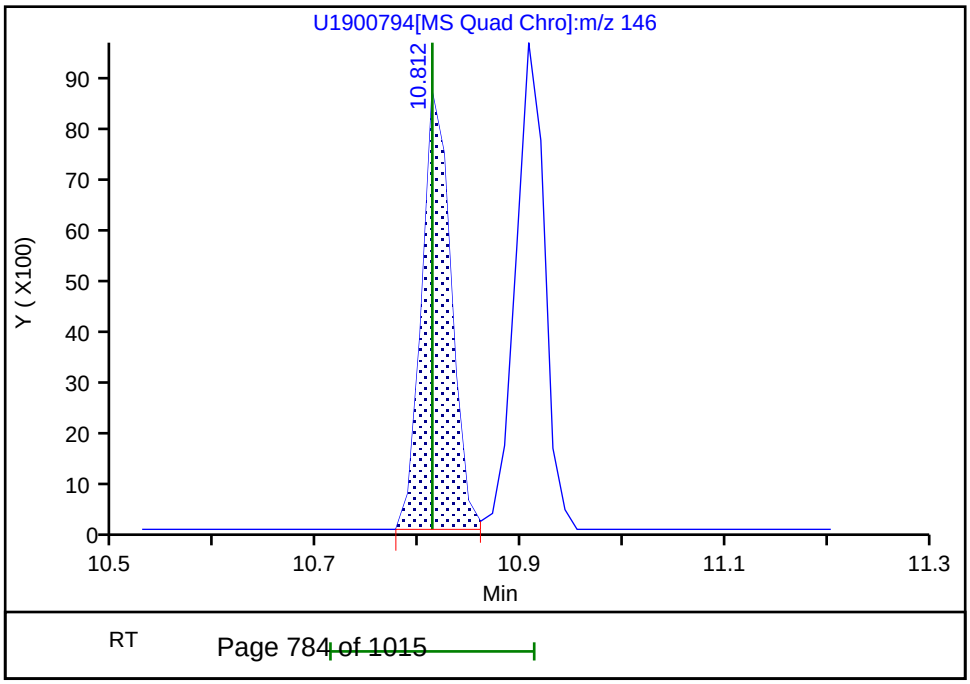
Processing Integration Results

RT: 10.91
Area: 19169
Amount: 0.600710
Amount Units: ug/l



Manual Integration Results

RT: 10.81
Area: 17372
Amount: 0.553299
Amount Units: ug/l



Reviewer: laveyt, 25-Jul-2018 09:51:37

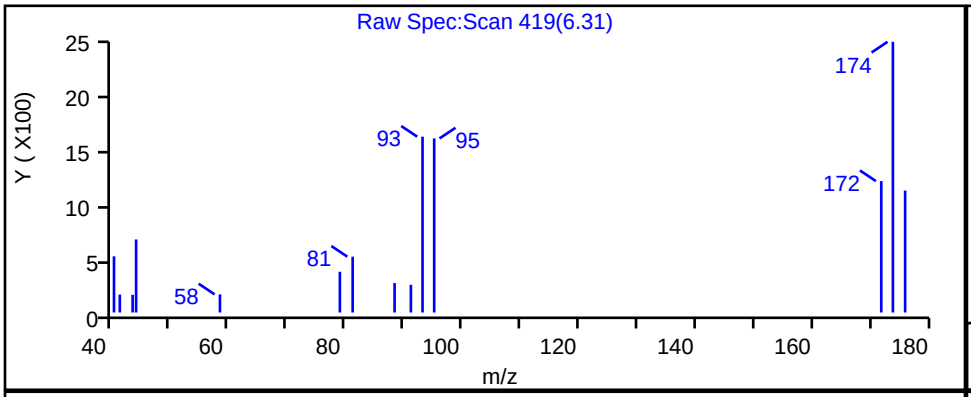
User Disabled Compound Report

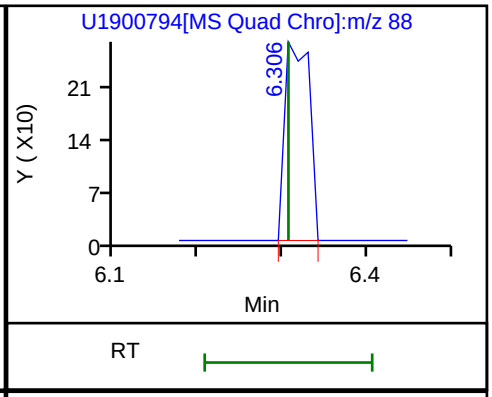
TestAmerica Canton

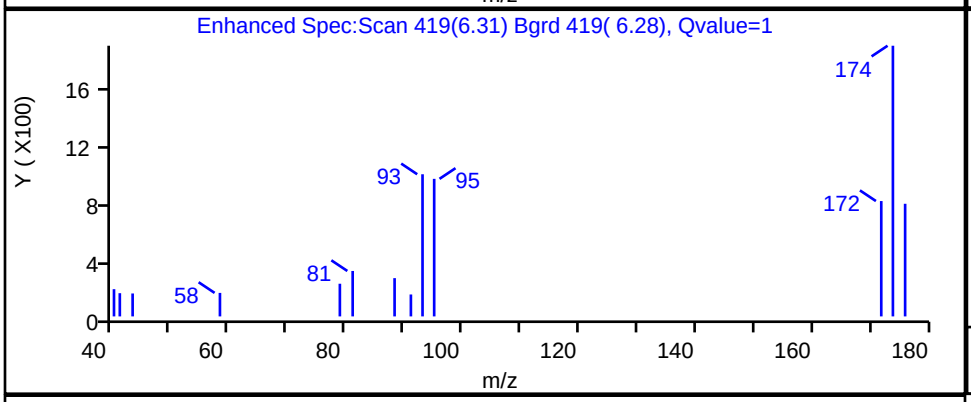
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d				
Injection Date:	24-Jul-2018 20:04:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

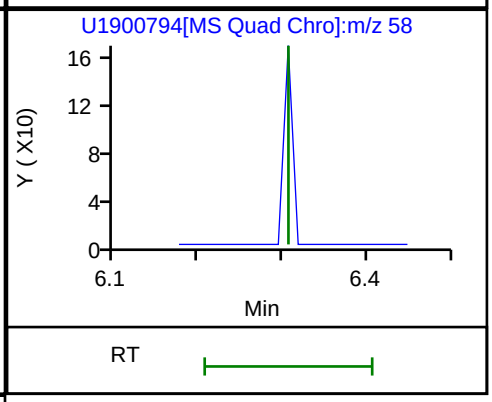
64 1,4-Dioxane, CAS: 123-91-1

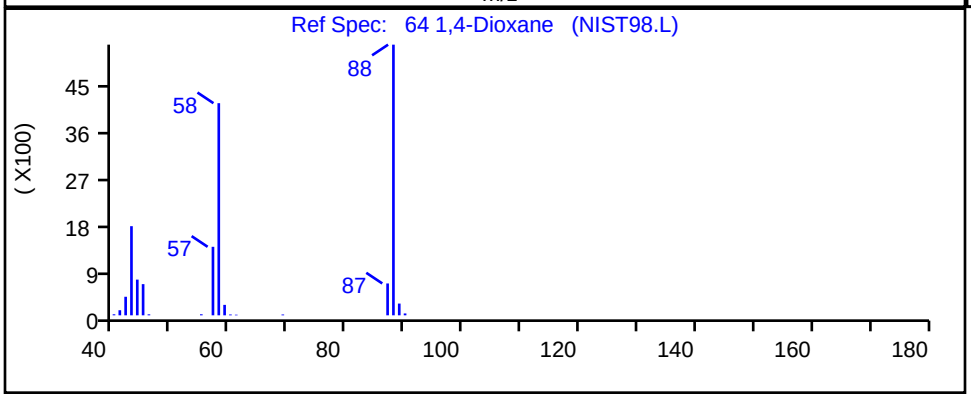
Processing Results











RT	Mass	Response	Amount
6.31	88.00	541	10.248924
6.31	58.00	0	

Reviewer: laveyt, 25-Jul-2018 10:11:40

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

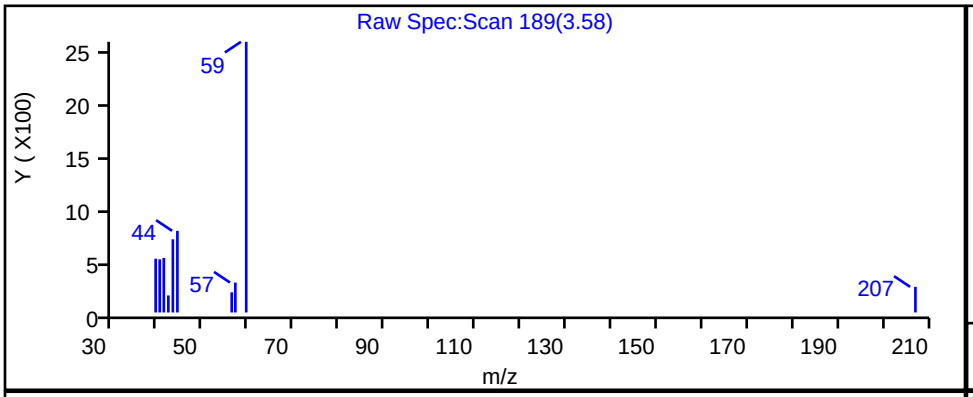
User Disabled Compound Report

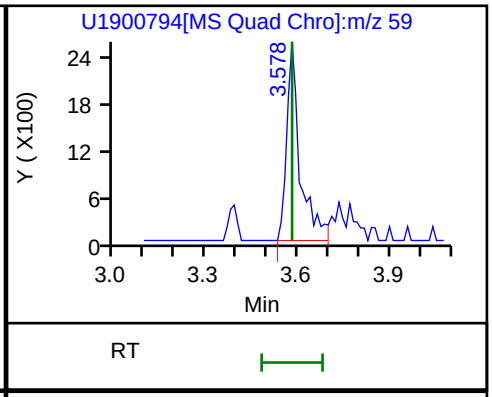
TestAmerica Canton

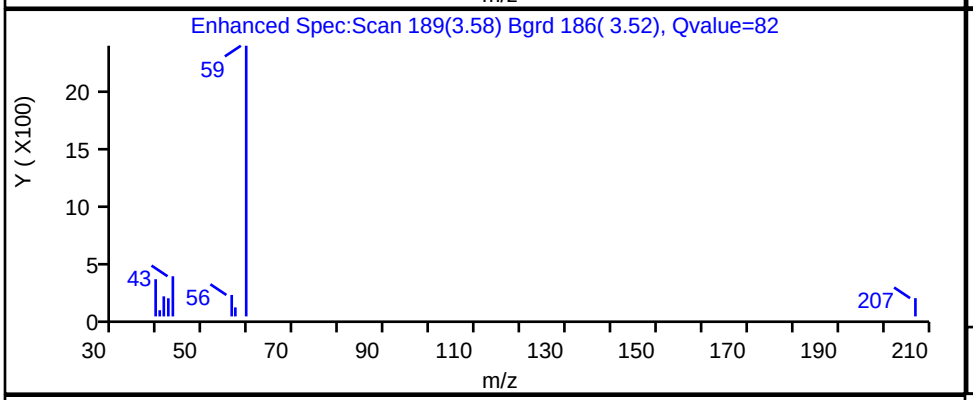
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d				
Injection Date:	24-Jul-2018 20:04:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

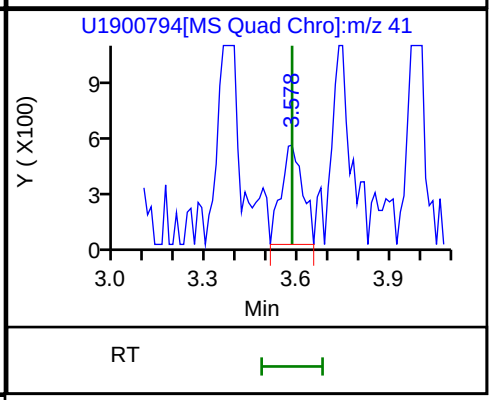
29 2-Methyl-2-propanol, CAS: 75-65-0

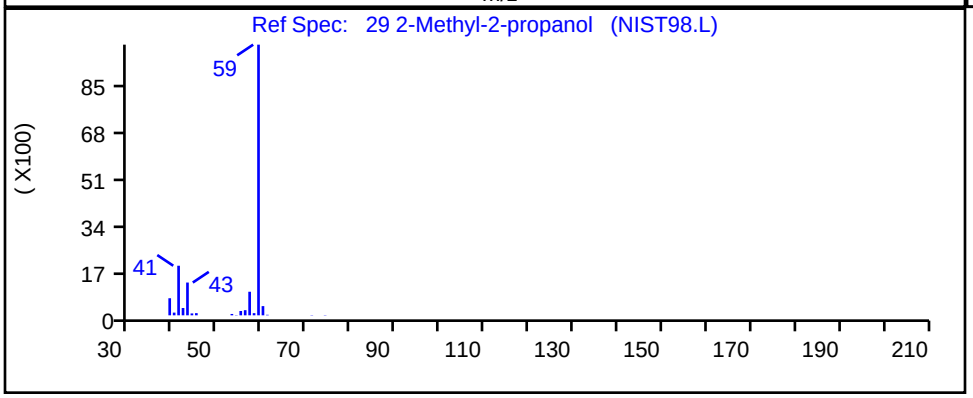
Processing Results











RT	Mass	Response	Amount
3.58	59.00	7655	6.614472
3.58	41.00	2500	

Reviewer: laveyt, 25-Jul-2018 09:53:00

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

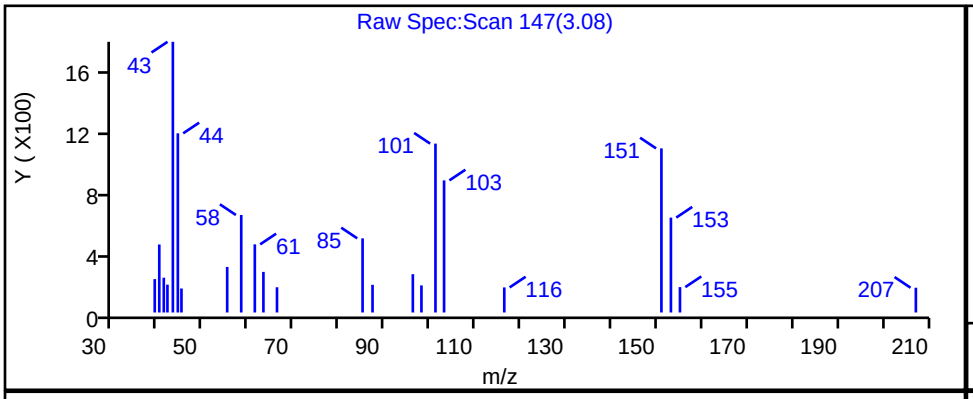
User Disabled Compound Report

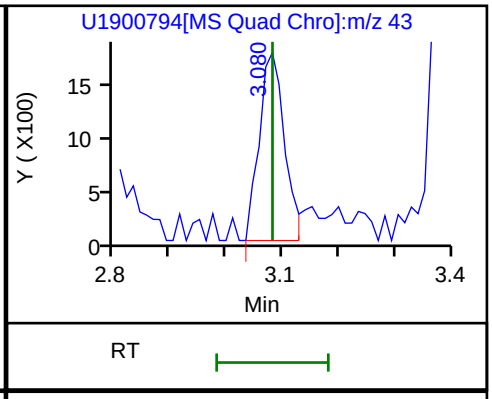
TestAmerica Canton

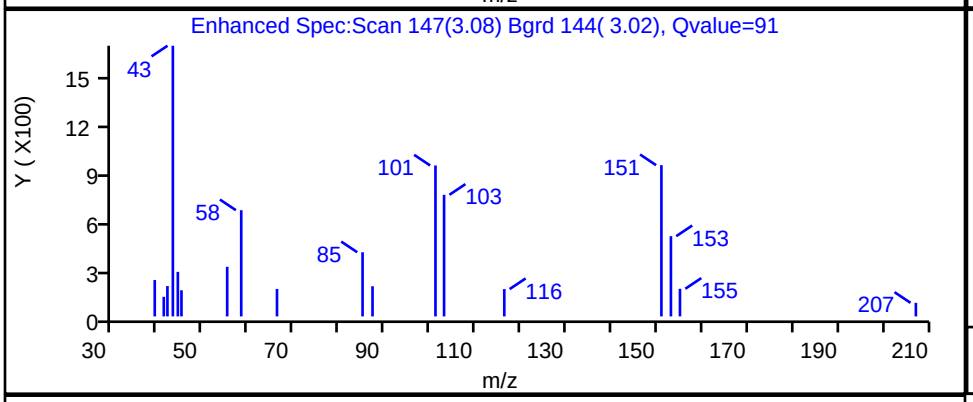
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d				
Injection Date:	24-Jul-2018 20:04:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

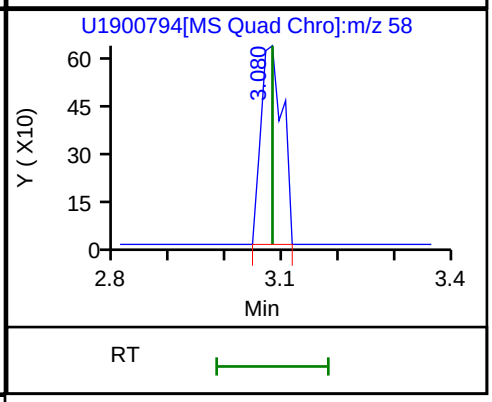
22 Acetone, CAS: 67-64-1

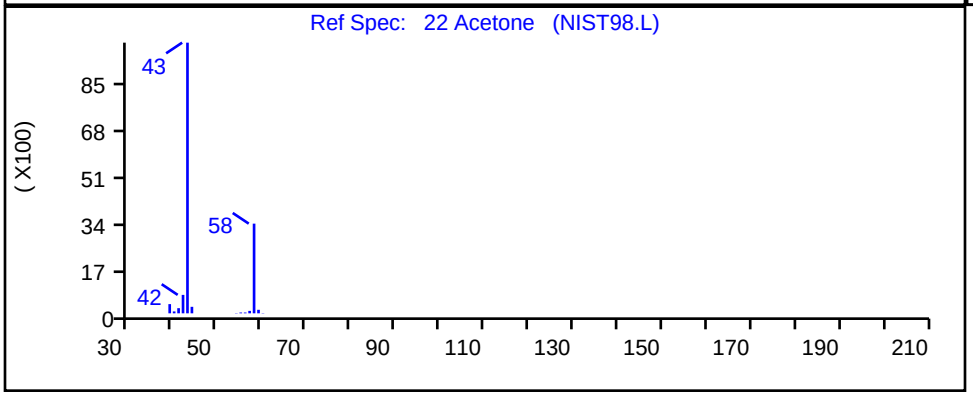
Processing Results











RT	Mass	Response	Amount
3.08	43.00	5518	1.624733
3.08	58.00	1707	

Reviewer: laveyt, 25-Jul-2018 09:52:16

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

User Disabled Compound Report

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d

Injection Date: 24-Jul-2018 20:04:28 Instrument ID: A3UX19

Lims ID: std8260 L1

Client ID:

Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 13

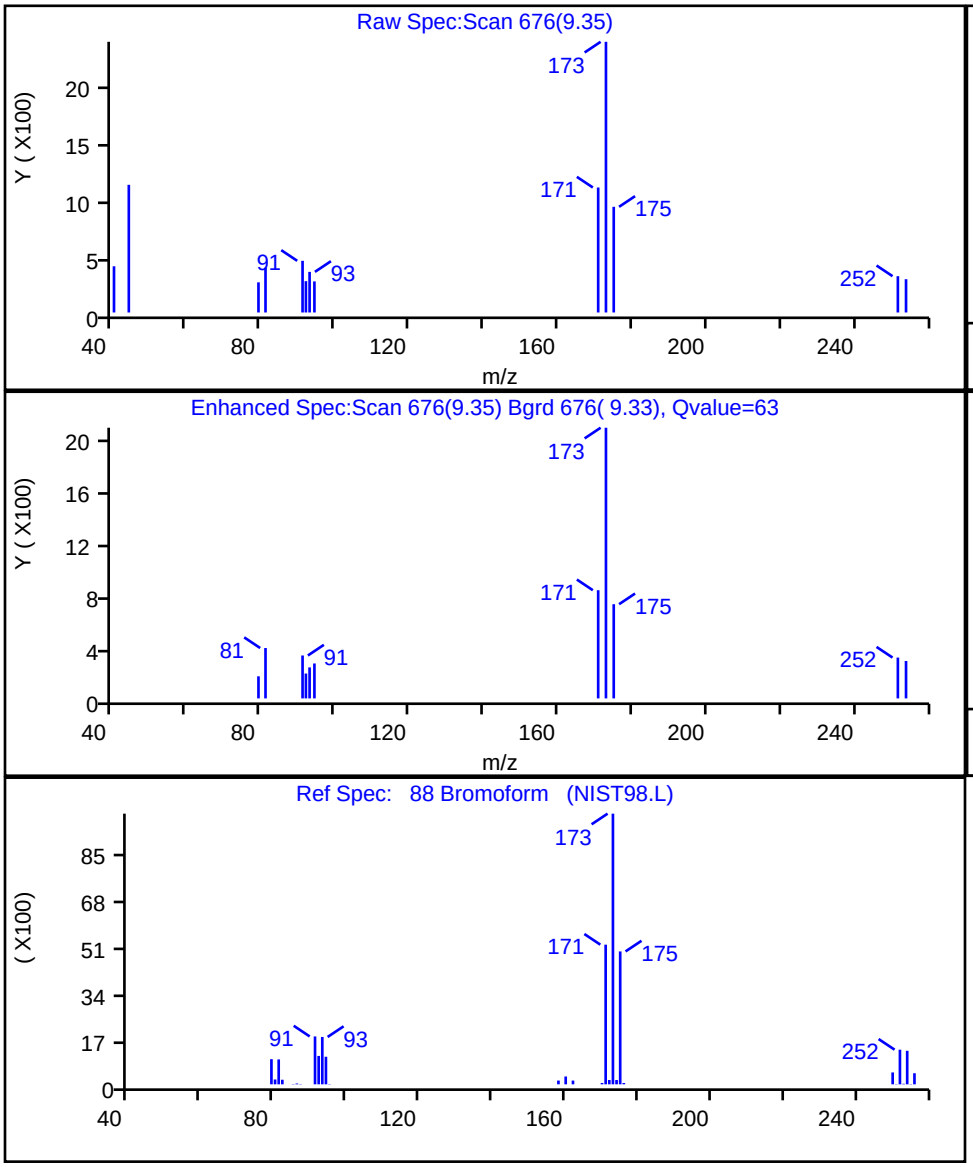
Injection Vol: 5.0 mL Dil. Factor: 1.0000

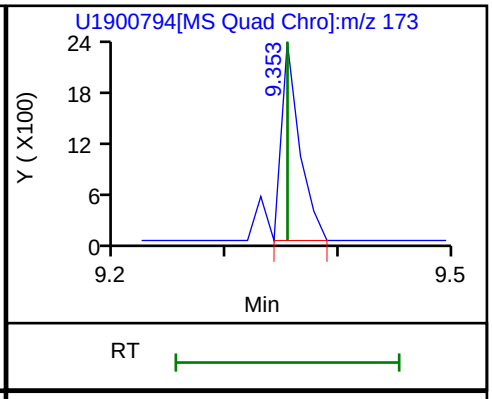
Method: 8260_19 Limit Group: MSV 8260C ICAL

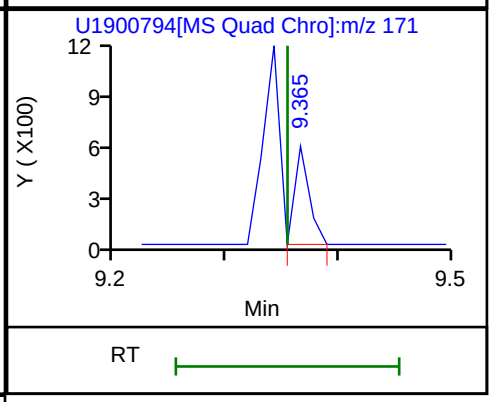
Column: DB-624 (0.18 mm) Detector MS SCAN

88 Bromoform, CAS: 75-25-2

Processing Results







RT	Mass	Response	Amount
9.35	173.00	2603	0.492517
9.37	171.00	513	

Reviewer: laveyt, 25-Jul-2018 09:54:48

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

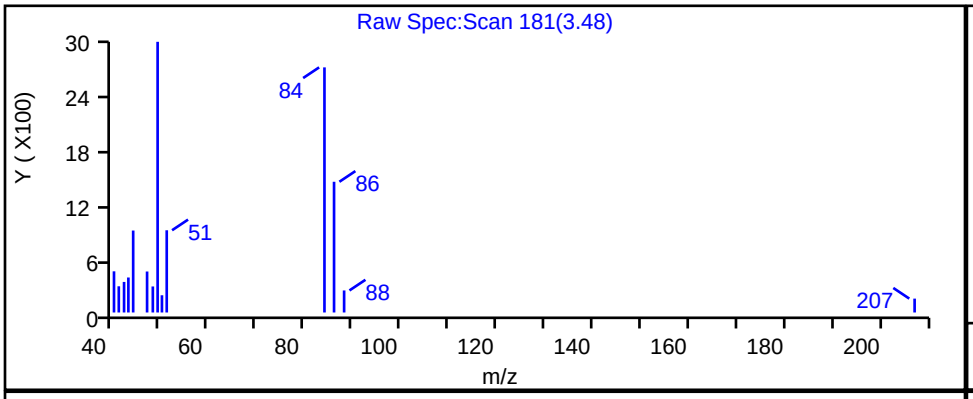
User Disabled Compound Report

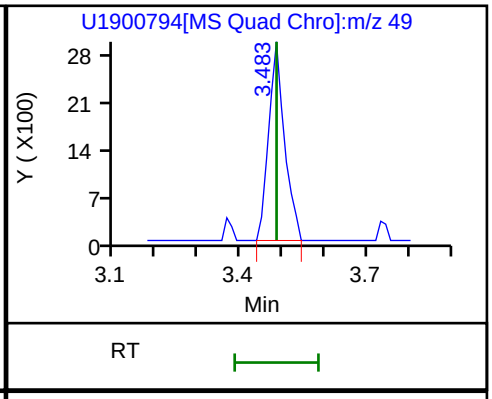
TestAmerica Canton

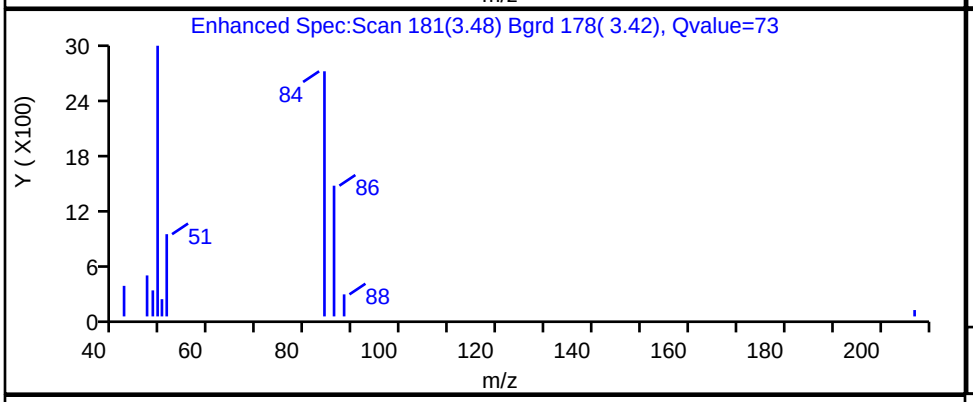
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d				
Injection Date:	24-Jul-2018 20:04:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

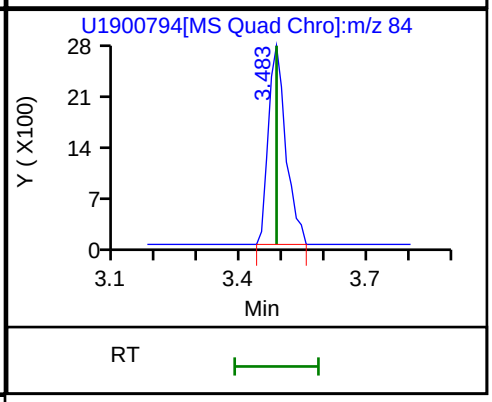
28 Methylene Chloride, CAS: 75-09-2

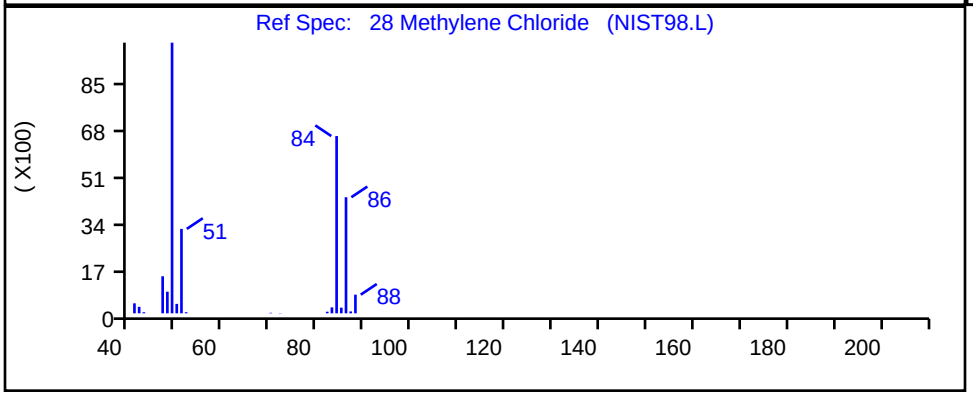
Processing Results











RT	Mass	Response	Amount
3.48	49.00	7846	0.551972
3.48	84.00	7835	

Reviewer: laveyt, 25-Jul-2018 09:52:25

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

User Disabled Compound Report

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\U1900794.d

Injection Date: 24-Jul-2018 20:04:28 Instrument ID: A3UX19

Lims ID: std8260 L1

Client ID:

Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 13

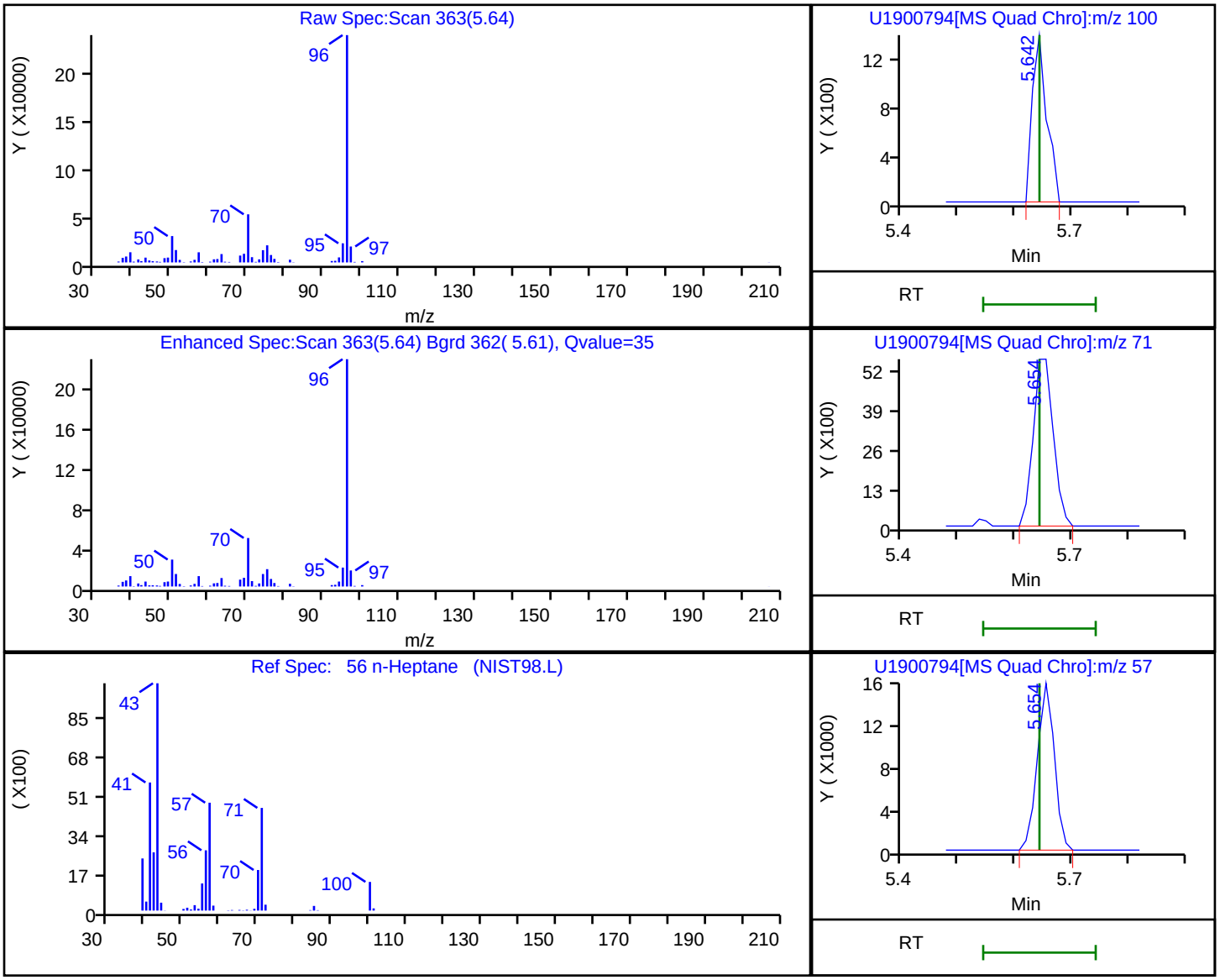
Injection Vol: 5.0 mL Dil. Factor: 1.0000

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	2448	
5.65	71.00	13746	
5.65	57.00	32874	0.539419

Reviewer: laveyt, 25-Jul-2018 09:54:04

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.: 240-127107-1 Analy Batch No.: 337917

SDG No.:

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			
Cyclohexanone	0.0133 0.0157	0.0130	0.0126	0.0136	0.0138	Ave		0.0137				7.9		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.: 240-127107-1 Analy Batch No.: 337917

SDG No.:

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								
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.: 240-127107-1 Analy Batch No.: 337917

SDG No.:

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
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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 337917

SDG No.:

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
1,2,3-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.: 240-127107-1 Analy Batch No.: 337917

SDG No.:

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					

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

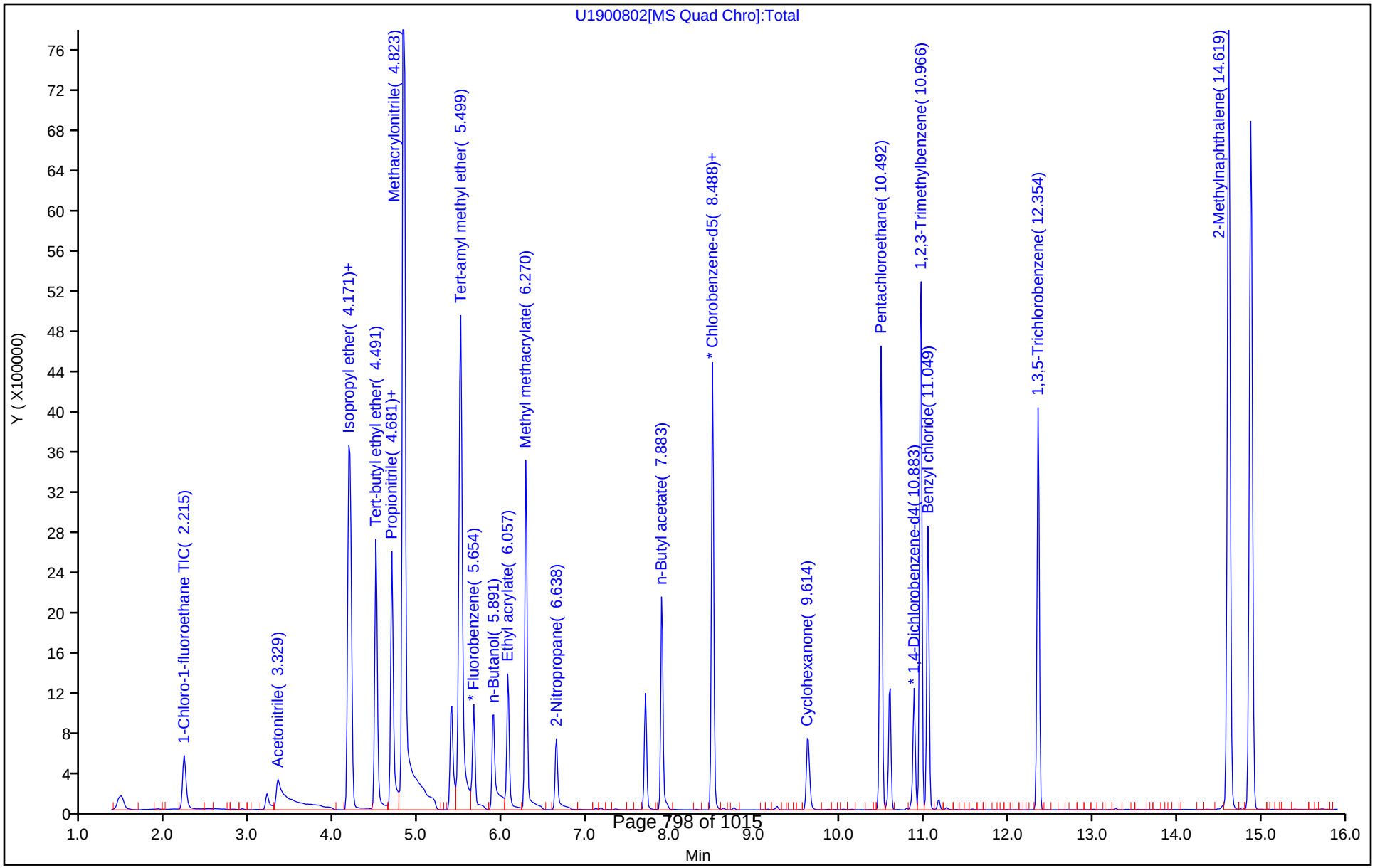
Report Date: 25-Jul-2018 16:29:56 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

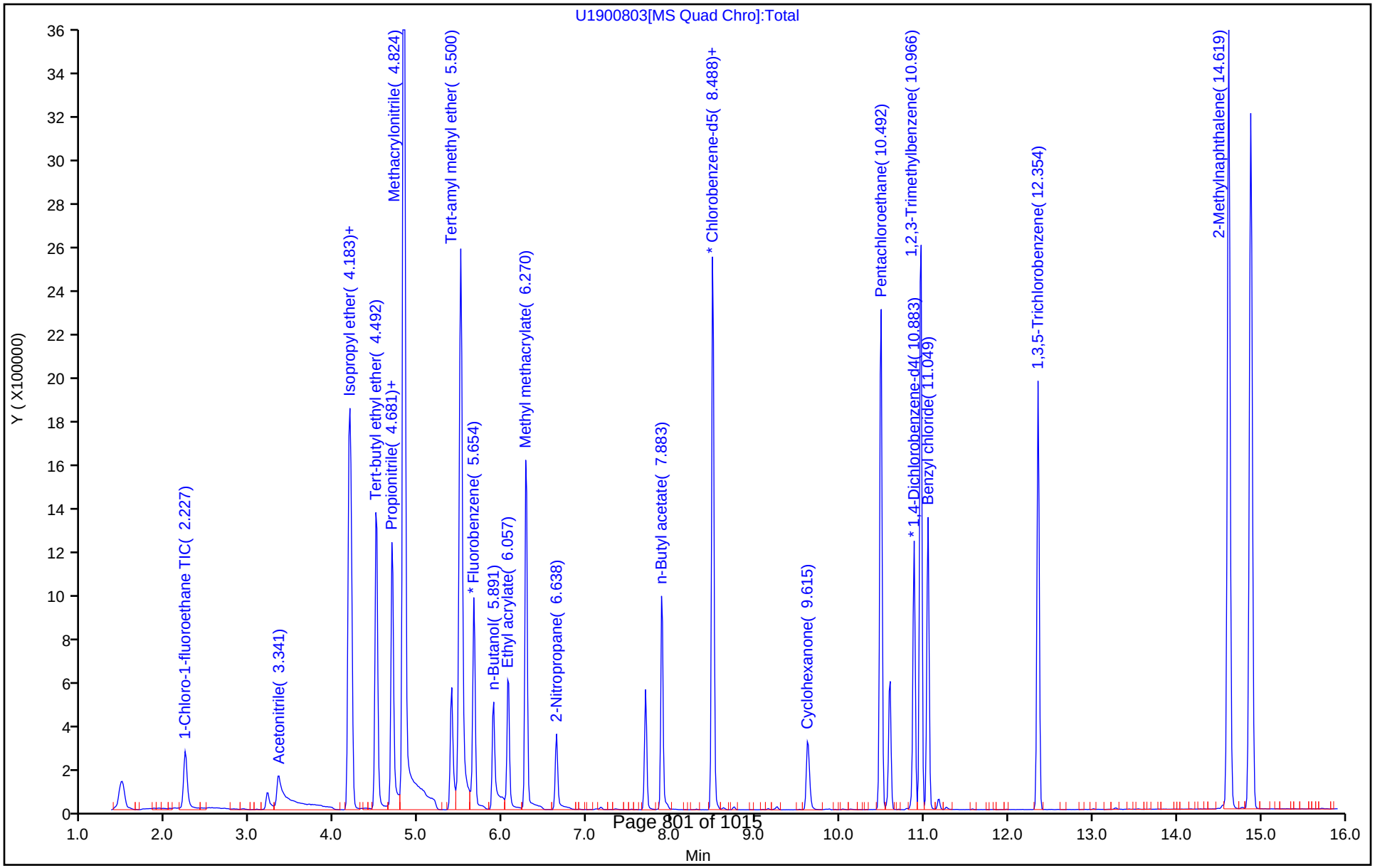
Report Date: 25-Jul-2018 16:29:59 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

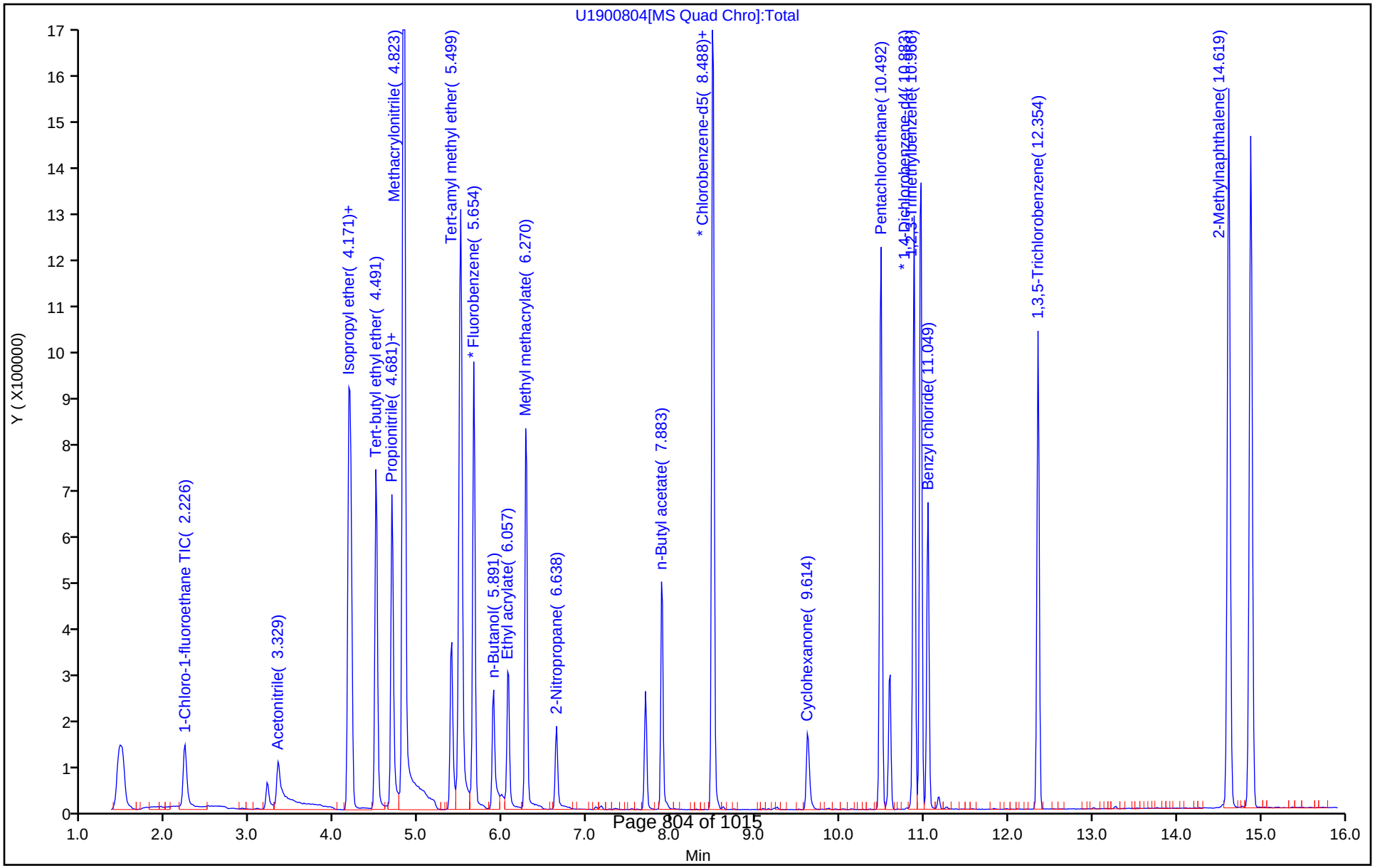
Report Date: 25-Jul-2018 16:30:10 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

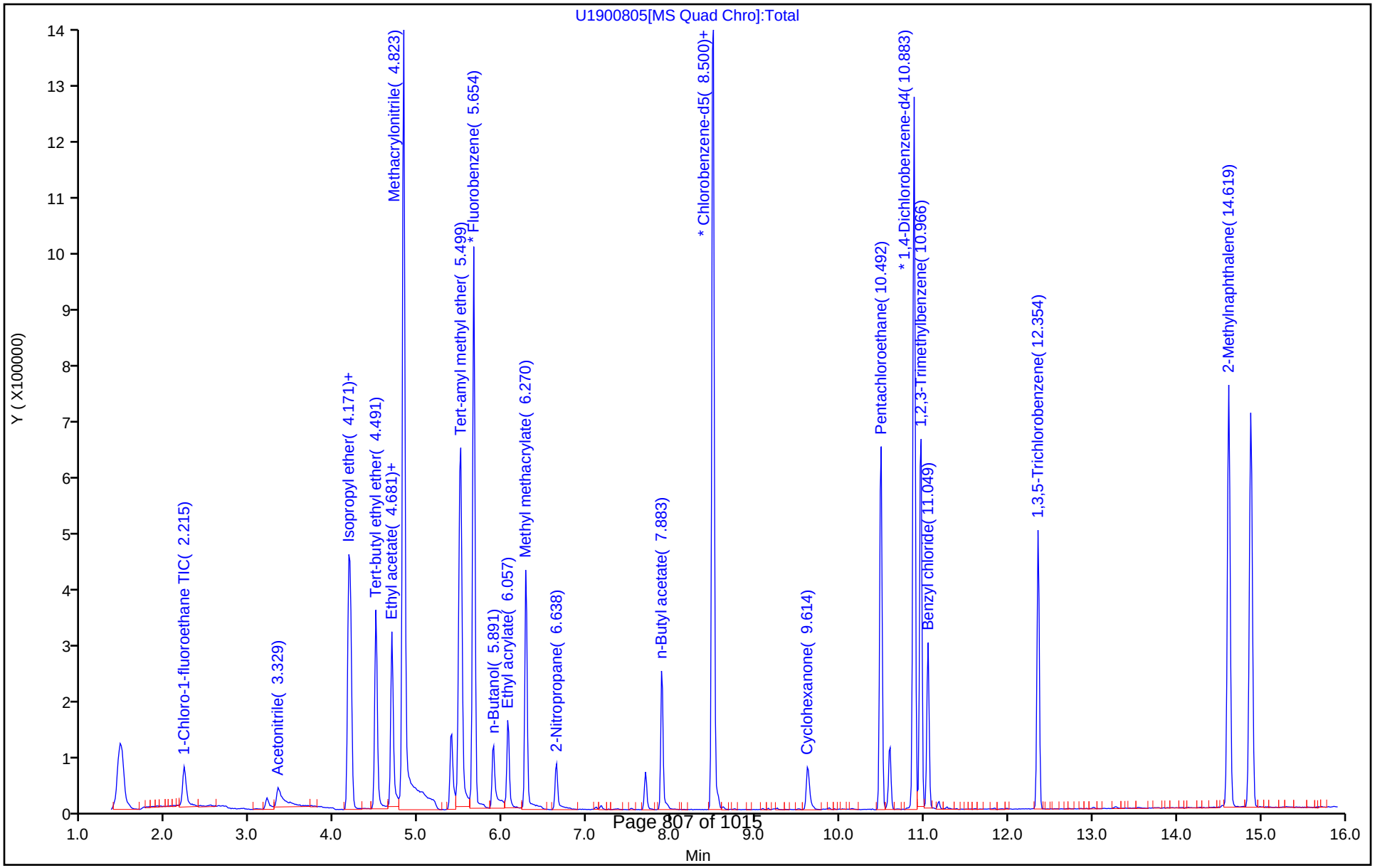
Report Date: 25-Jul-2018 16:30:14 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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



Report Date: 25-Jul-2018 16:30:18 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\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

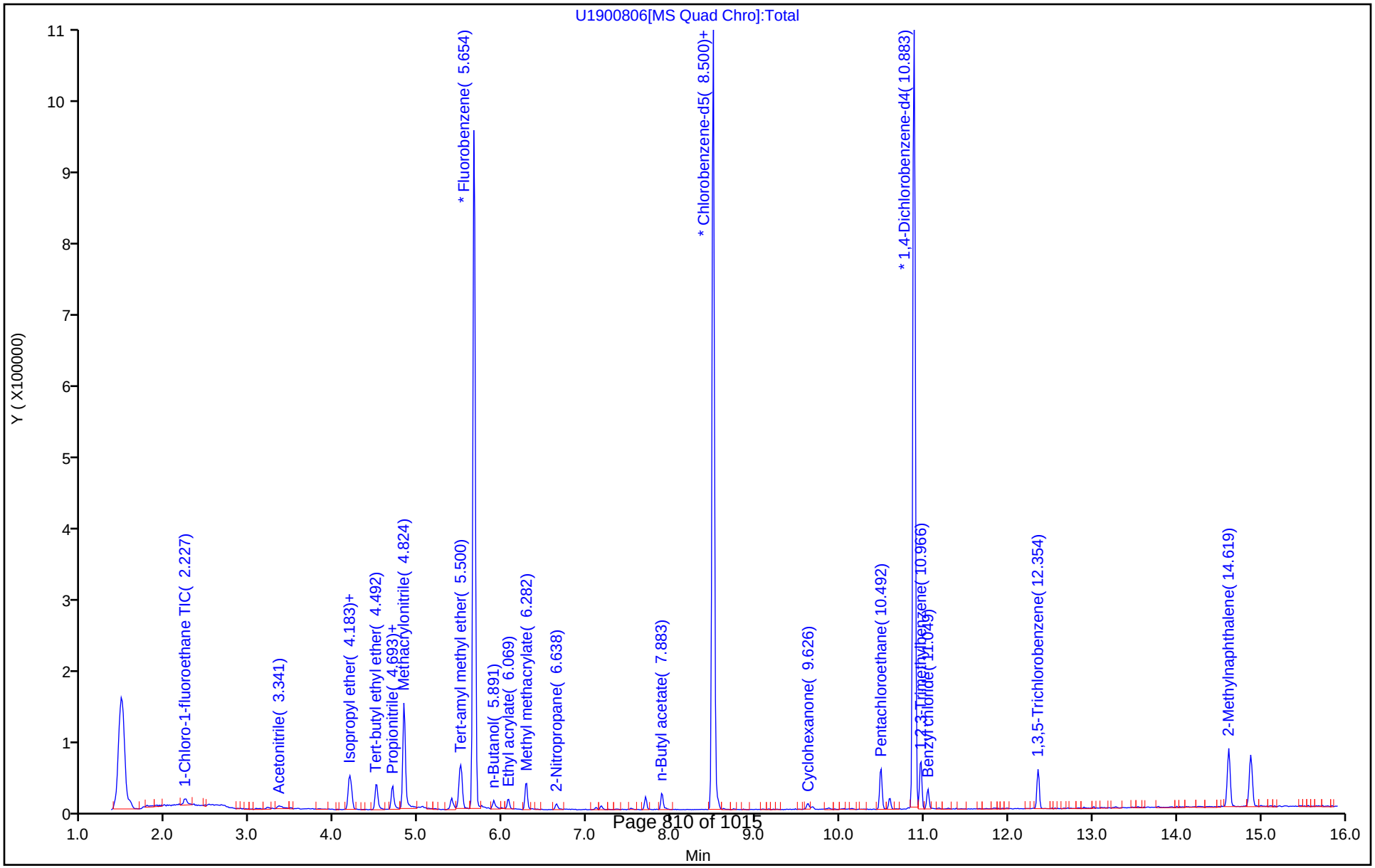
Report Date: 25-Jul-2018 16:30:18 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

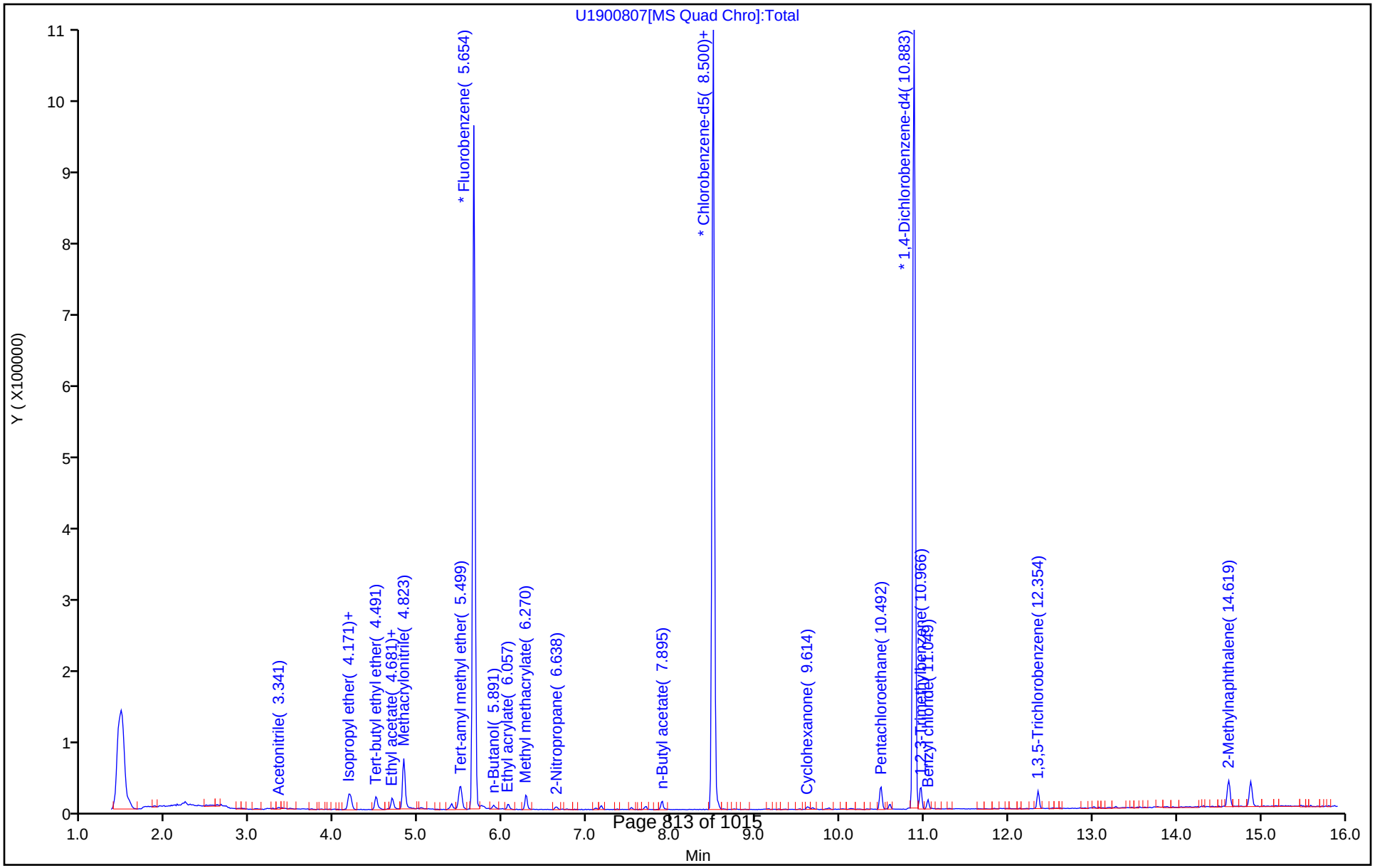
Report Date: 25-Jul-2018 16:30:25 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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			
Iodomethane	0.4872 0.4597	0.4730 0.4538	0.4730	0.4575	0.4539	Ave		0.4655				2.7		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
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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								
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			
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			

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.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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								
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			
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			

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.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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								
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			
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			

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.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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								
1,2,4-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			
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.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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
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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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
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
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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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
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 3039879	50838 4036837	544474	1040131	2085055	0.500 60.0	1.00 80.0	10.0	20.0	40.0
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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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
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 1365436	20530 1814431	238543	466651	934583	0.500 60.0	1.00 80.0	10.0	20.0	40.0
o-Xylene	CBNZ d5	Ave	9580 1302937	20689 1703380	225509	441487	890297	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Styrene	CBNZ d5	Ave	16463 2244503	33591 2970527	391834	759556	1534422	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromoform	CBNZ d5	Ave	5340 669771	10783 909465	117306	222929	462320	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Isopropylbenzene	CBNZ d5	Ave	25288 3527221	55346 4561888	613985	1179370	2399226	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	7218 951258	16261 1271933	172140	328526	660294	0.500 60.0	1.00 80.0	10.0	20.0	40.0
Bromobenzene	DCBd 4	Ave	7663 946835	16361 1240722	169316	324573	647055	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,2,3-Trichloropropane	DCBd 4	Ave	2842 355186	5997 478494	66218	124262	250203	0.500 60.0	1.00 80.0	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 330637	5707 456736	60466	114842	228469	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
n-Propylbenzene	DCBd 4	Ave	7103 988262	15476 1290307	171938	332244	674293	0.500 60.0	1.00 80.0	10.0	20.0	40.0
2-Chlorotoluene	DCBd 4	Ave	6213 834423	12831 1080636	147510	281753	562614	0.500 60.0	1.00 80.0	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	21381 2836427	43584 3682951	499875	945225	1929863	0.500 60.0	1.00 80.0	10.0	20.0	40.0
4-Chlorotoluene	DCBd 4	Ave	7405 873575	14345 1135643	155656	302046	588358	0.500 60.0	1.00 80.0	10.0	20.0	40.0
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

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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
1,4-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	+++++ 2984863	52154 4262332	469280	923339	1949946	+++++ 60.0	1.00 80.0	10.0	20.0	40.0
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.: 240-127107-1 Analy Batch No.: 342719

SDG No.:

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				

Report Date: 27-Aug-2018 21:27:50 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

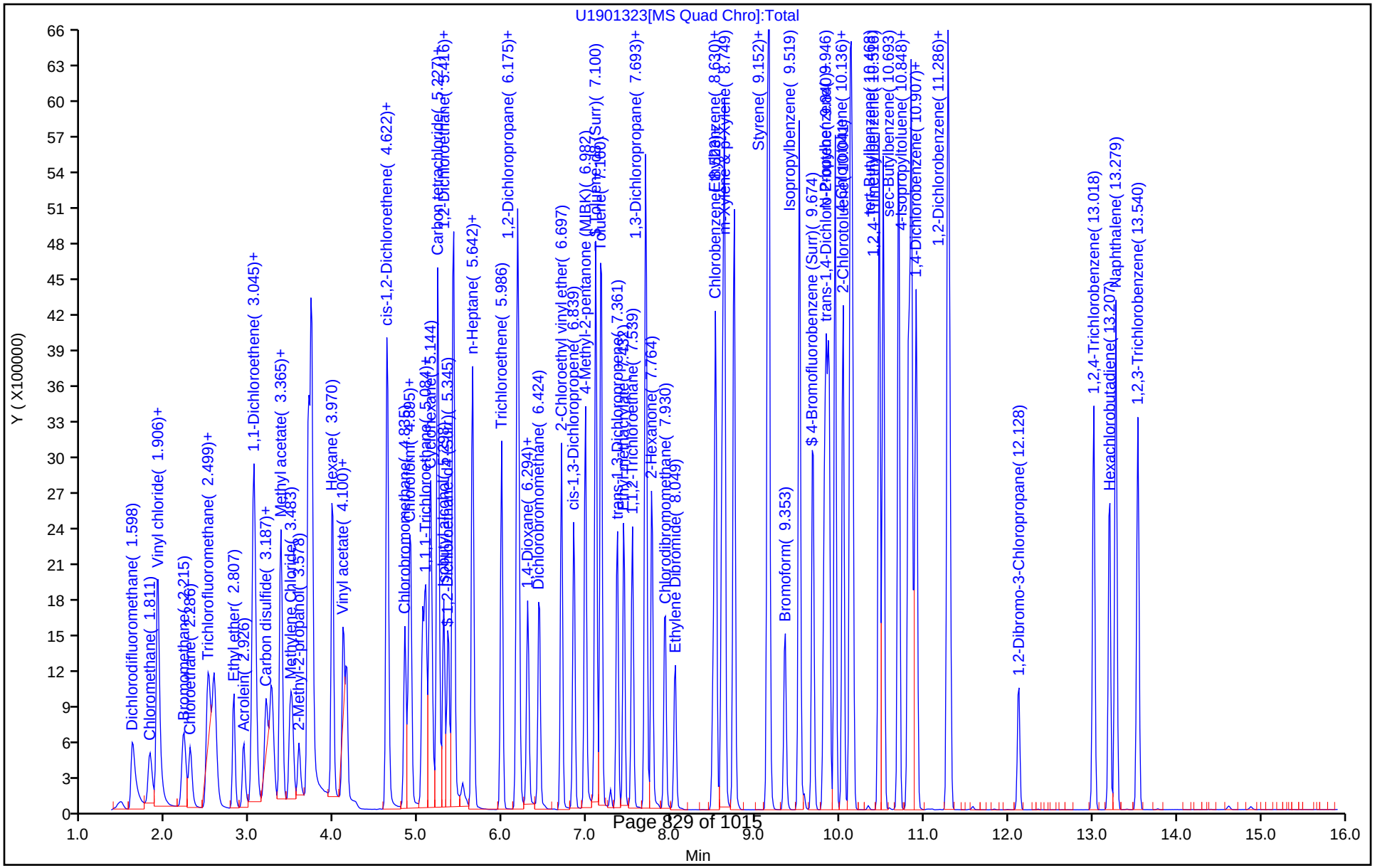
Report Date: 27-Aug-2018 21:27:50 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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



Report Date: 27-Aug-2018 21:27:59 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

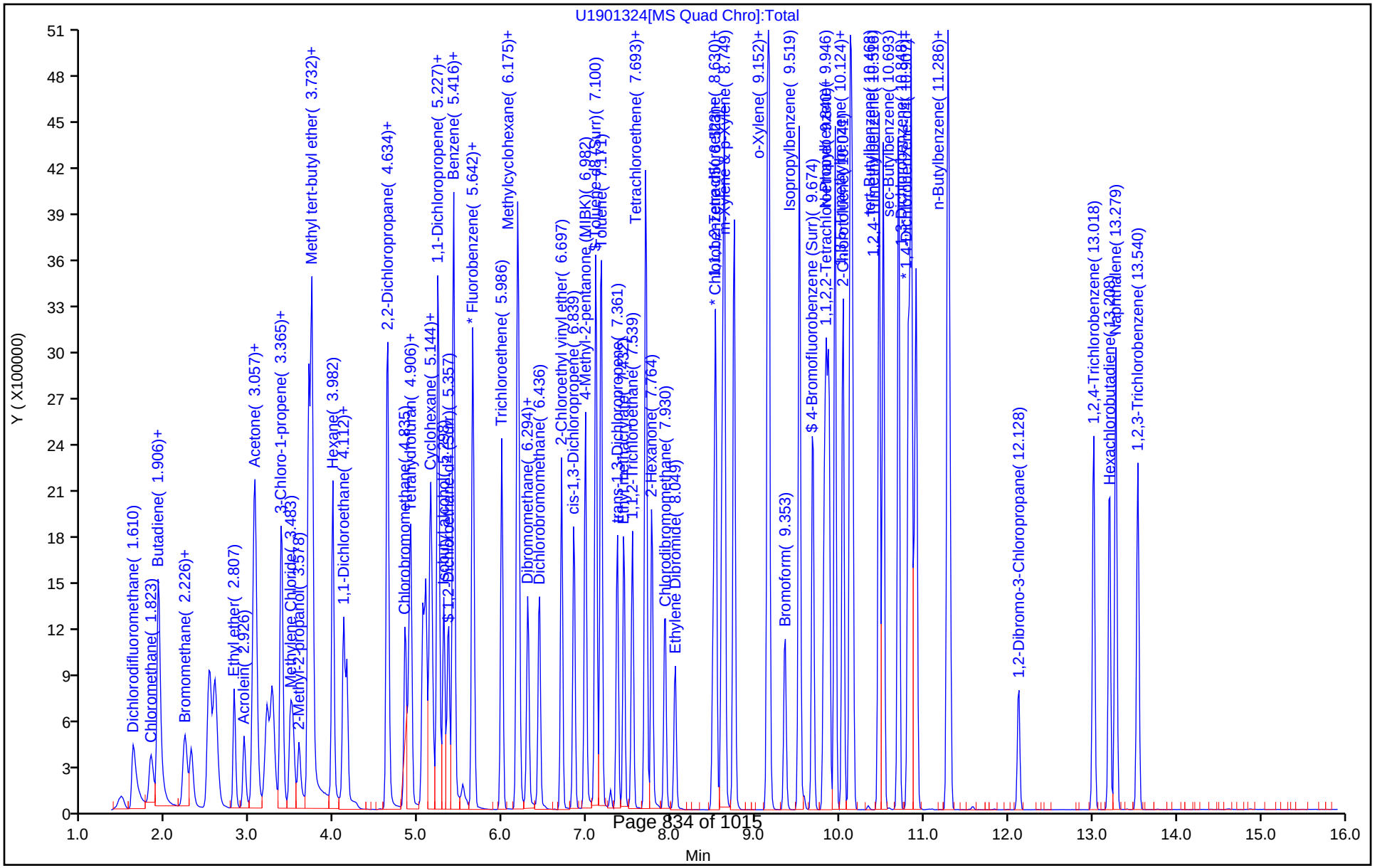
Report Date: 27-Aug-2018 21:27:59 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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



Report Date: 27-Aug-2018 21:28:11 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

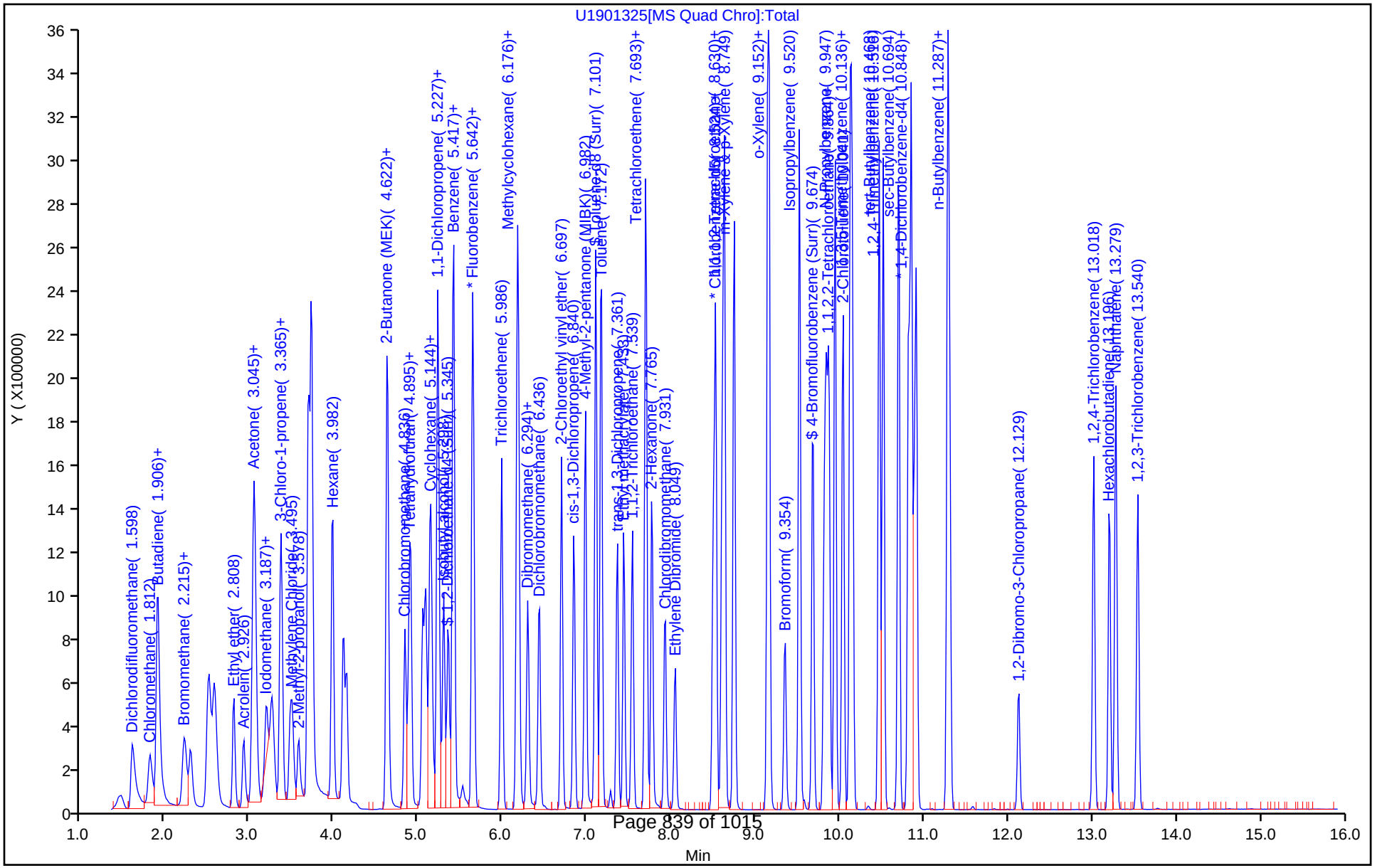
Report Date: 27-Aug-2018 21:28:11 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

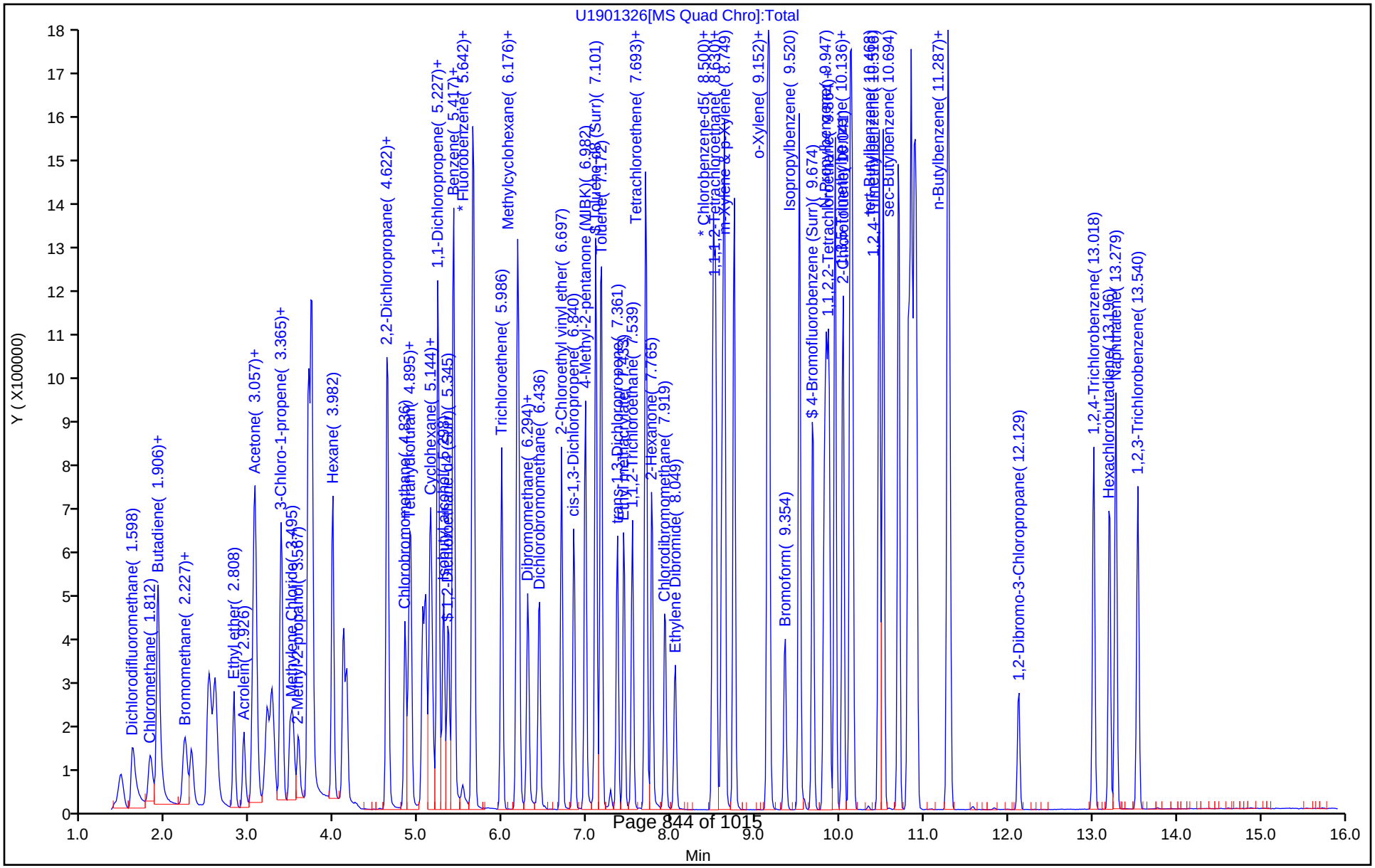
Report Date: 27-Aug-2018 21:28:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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



Report Date: 27-Aug-2018 21:28:34 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

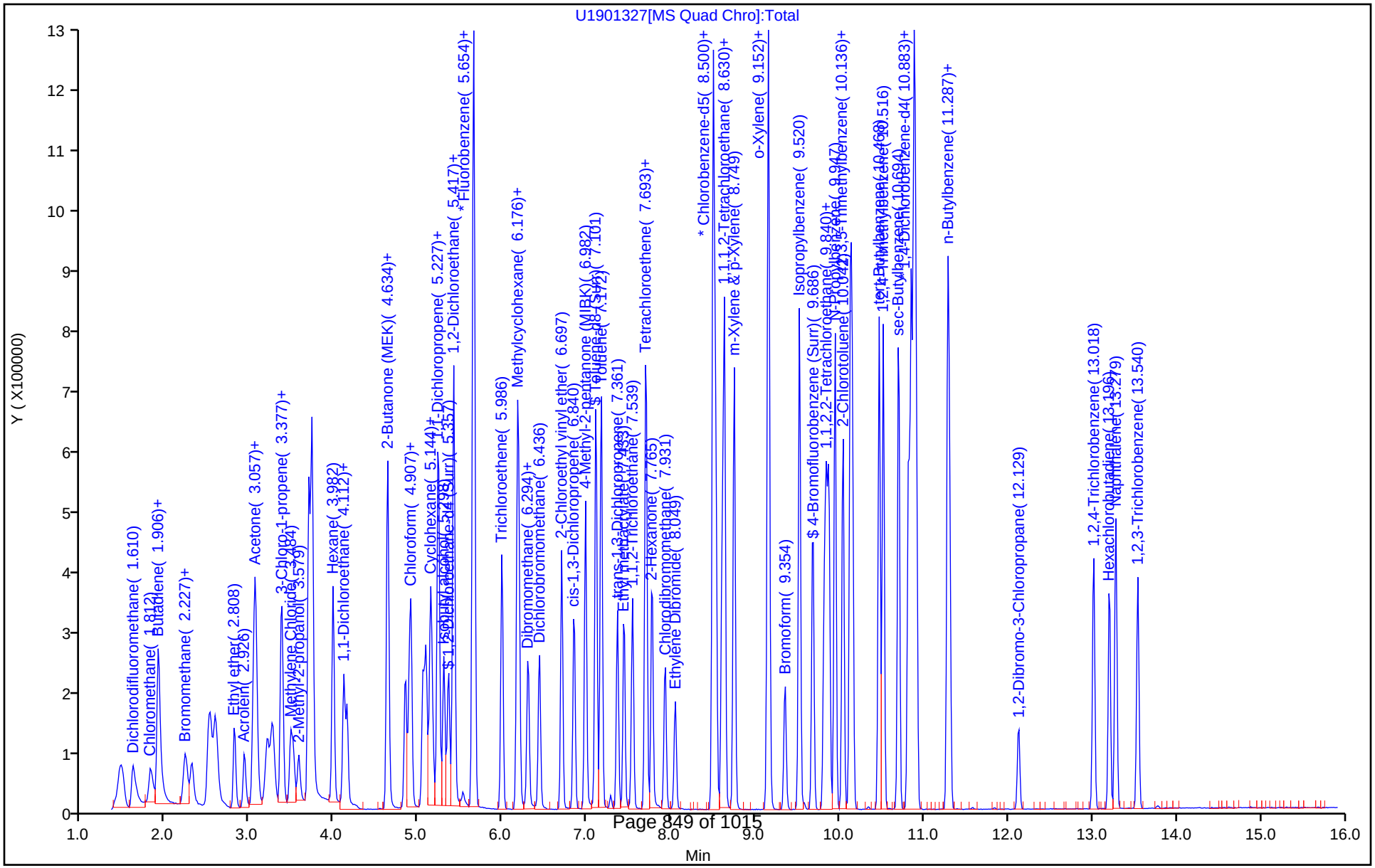
Report Date: 27-Aug-2018 21:28:34 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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



Report Date: 27-Aug-2018 21:28:46 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

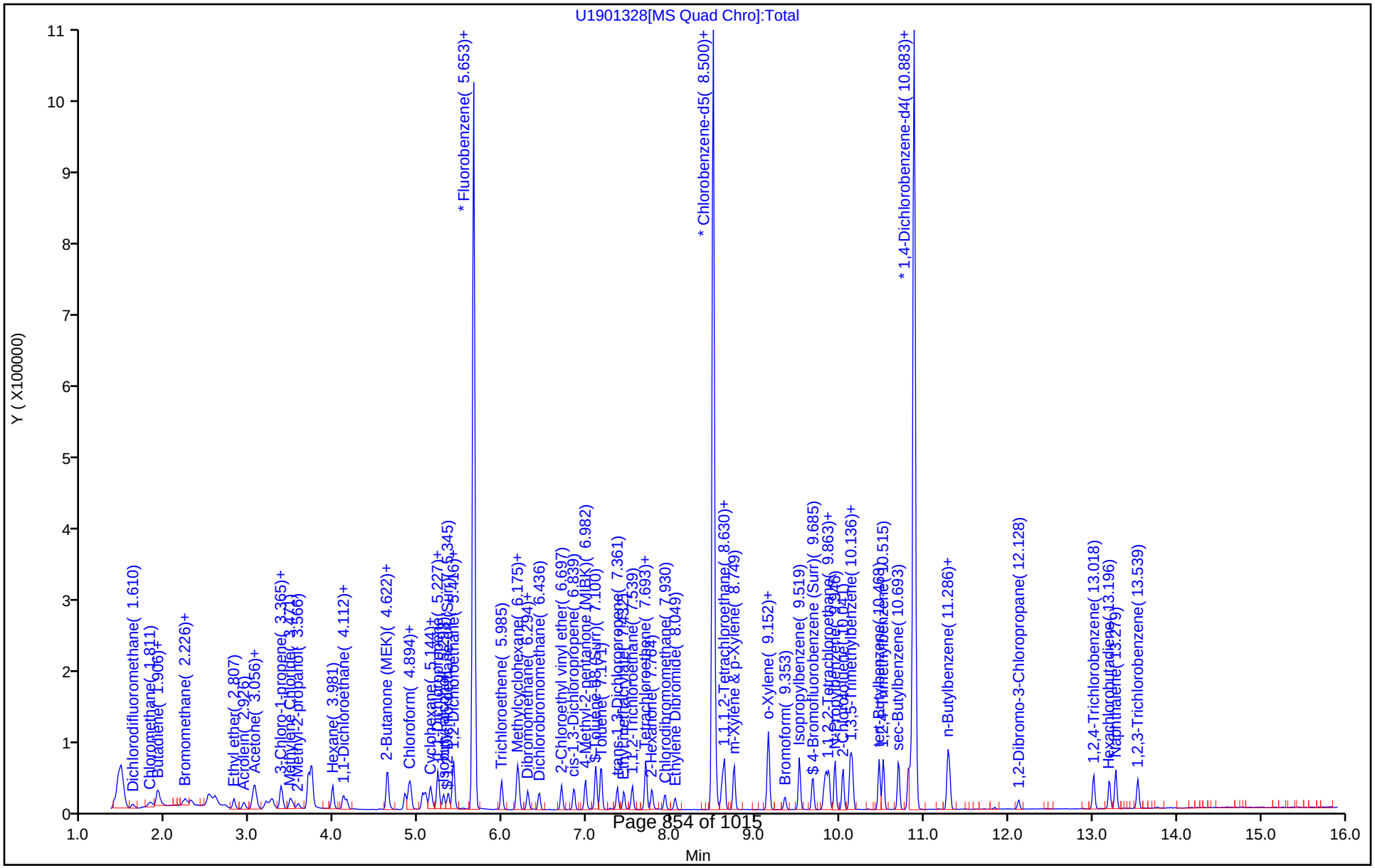
Report Date: 27-Aug-2018 21:28:46 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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



Report Date: 27-Aug-2018 21:29:03 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

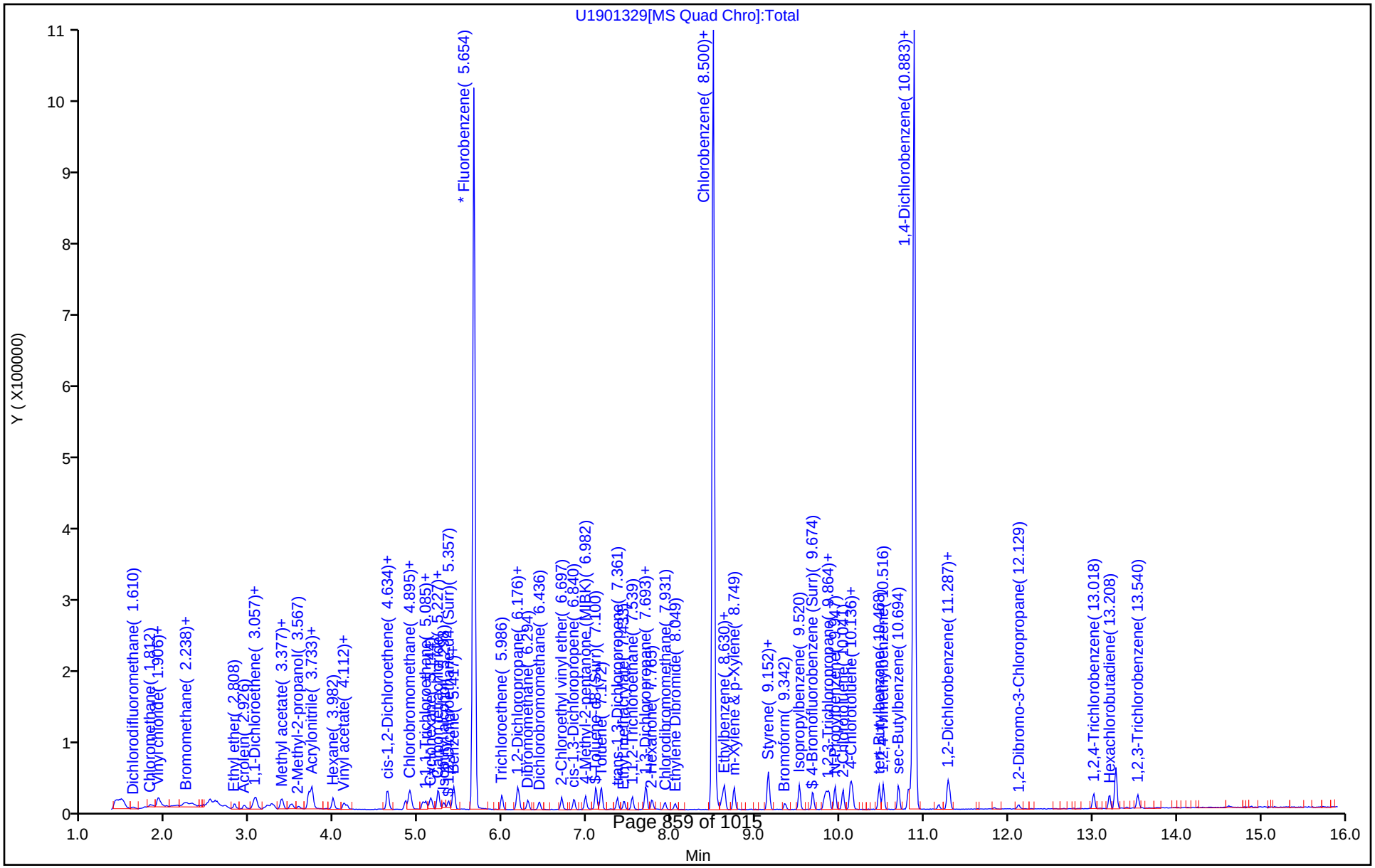
Report Date: 27-Aug-2018 21:29:03 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

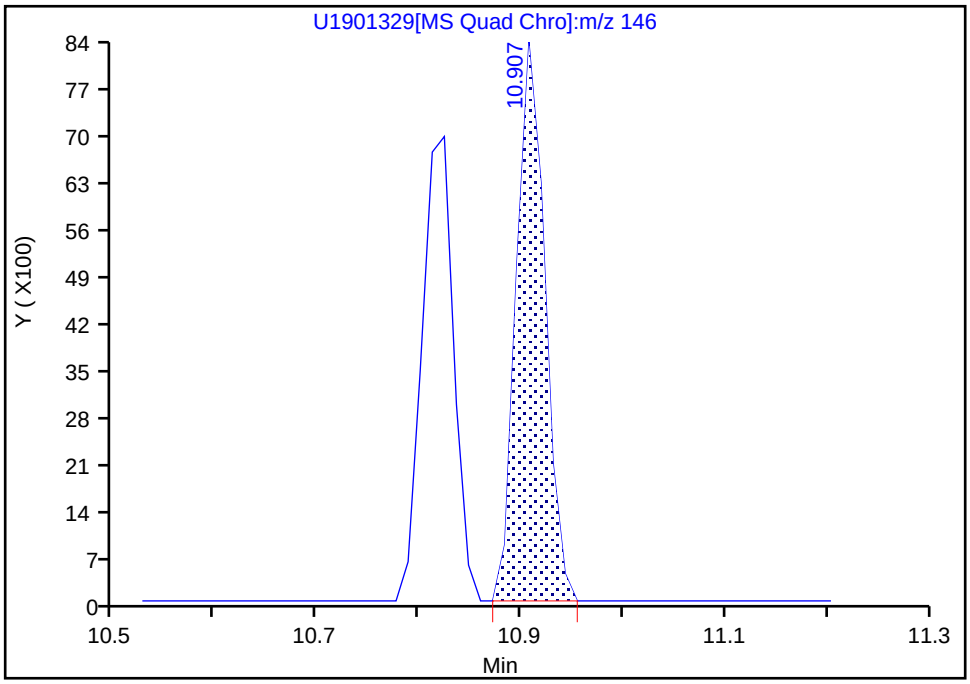
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d				
Injection Date:	27-Aug-2018 19:23:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

103 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

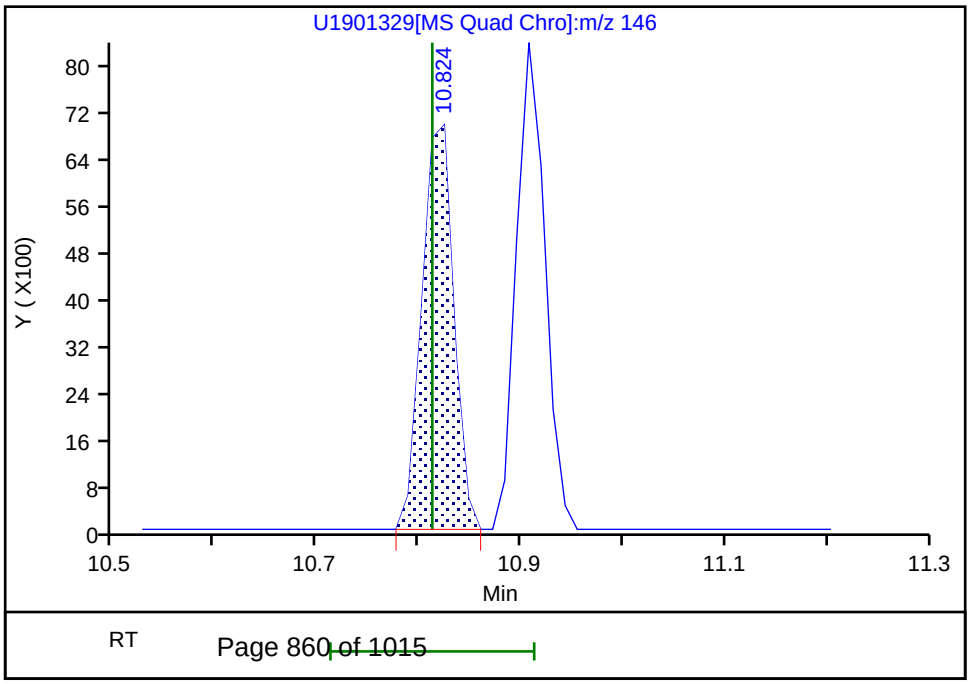
Processing Integration Results

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

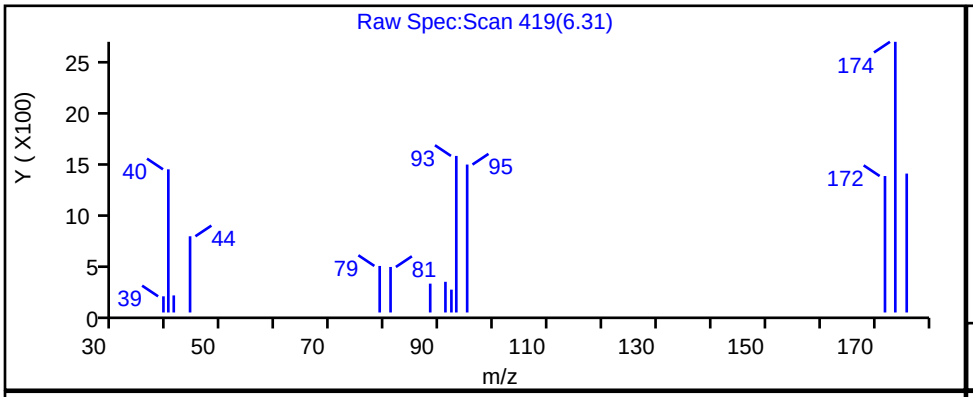
User Disabled Compound Report

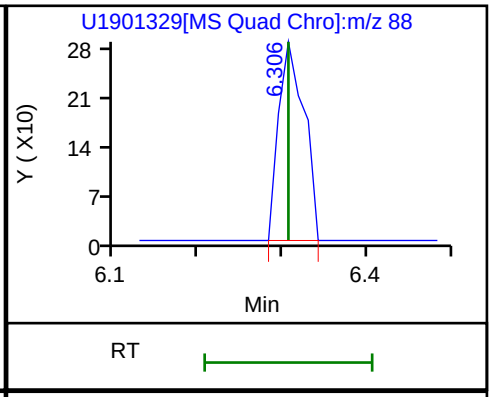
TestAmerica Canton

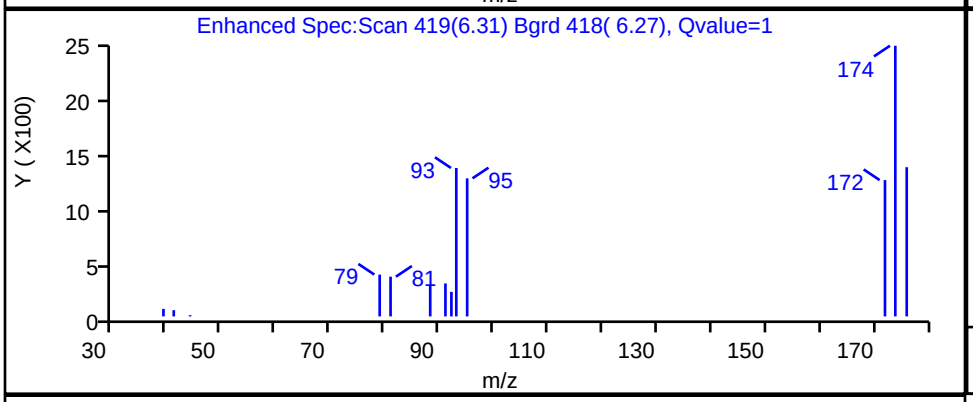
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d				
Injection Date:	27-Aug-2018 19:23:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

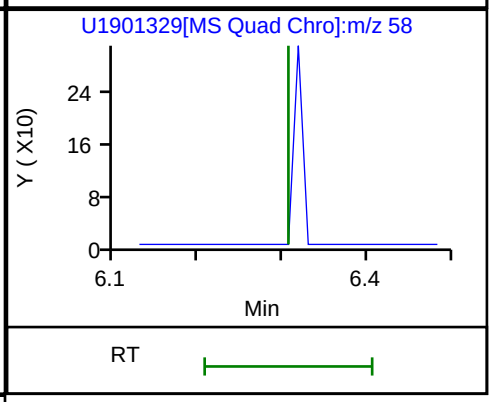
64 1,4-Dioxane, CAS: 123-91-1

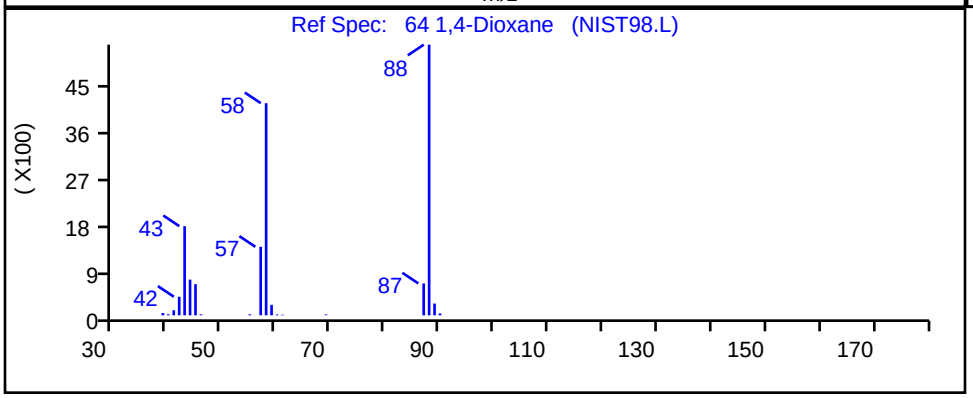
Processing Results











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

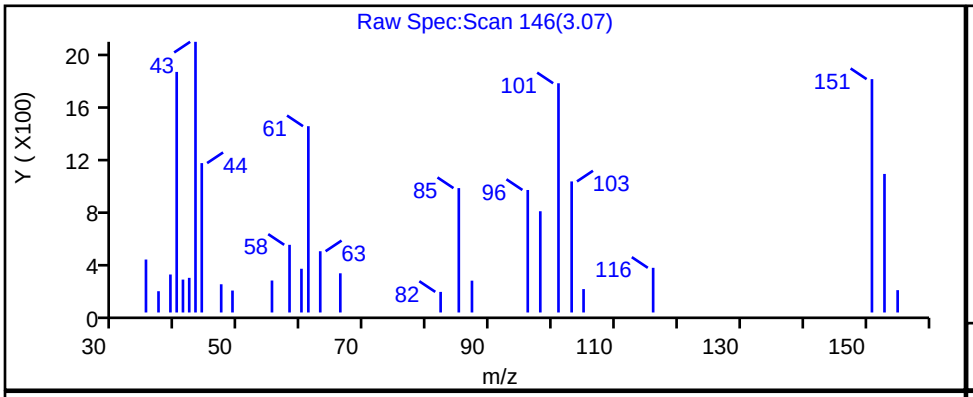
User Disabled Compound Report

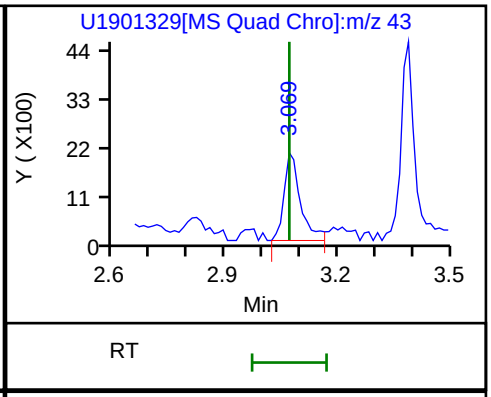
TestAmerica Canton

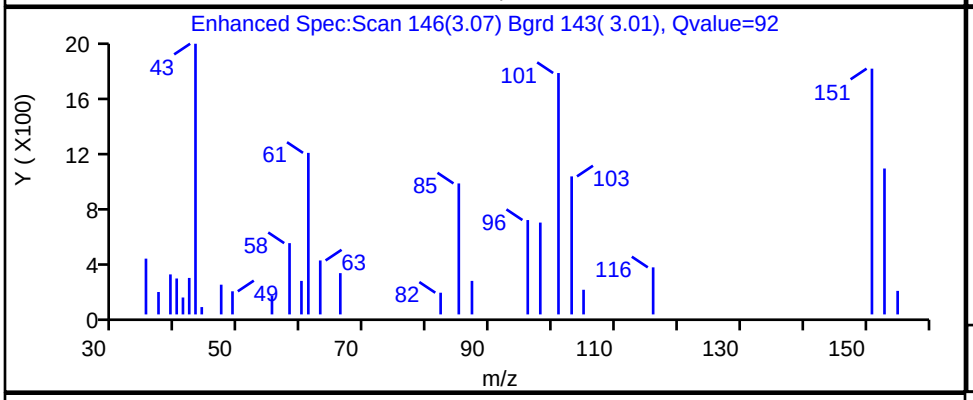
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d				
Injection Date:	27-Aug-2018 19:23:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

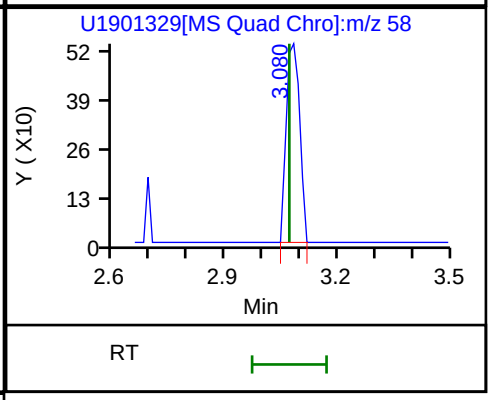
22 Acetone, CAS: 67-64-1

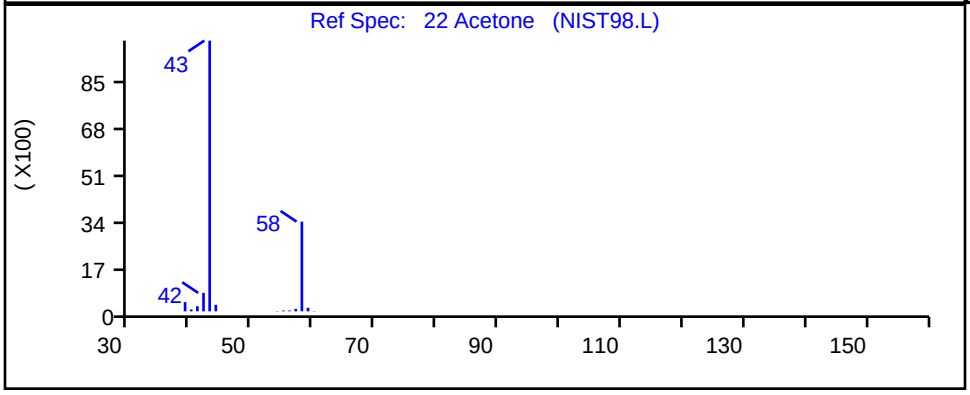
Processing Results











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

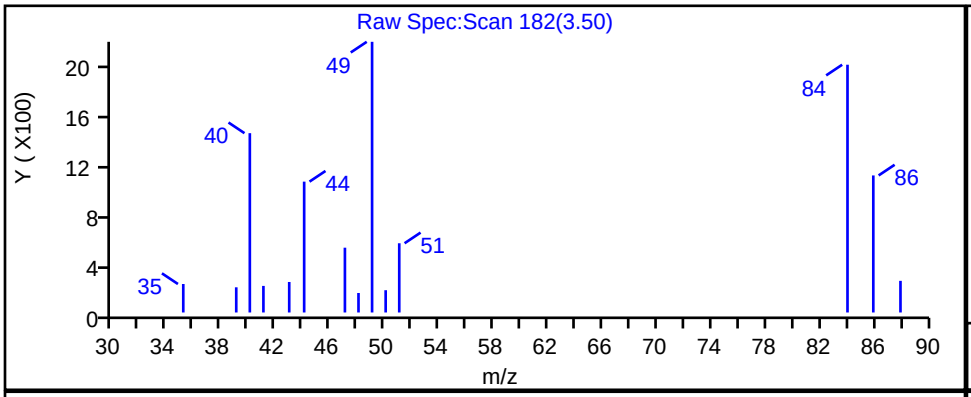
User Disabled Compound Report

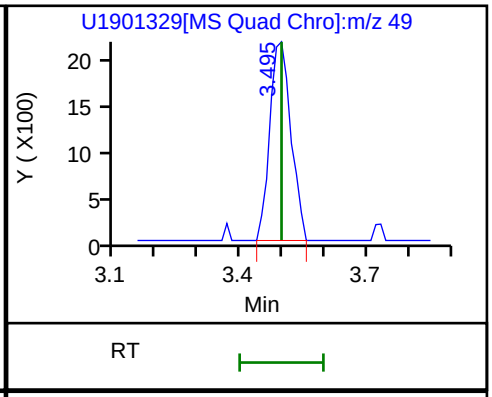
TestAmerica Canton

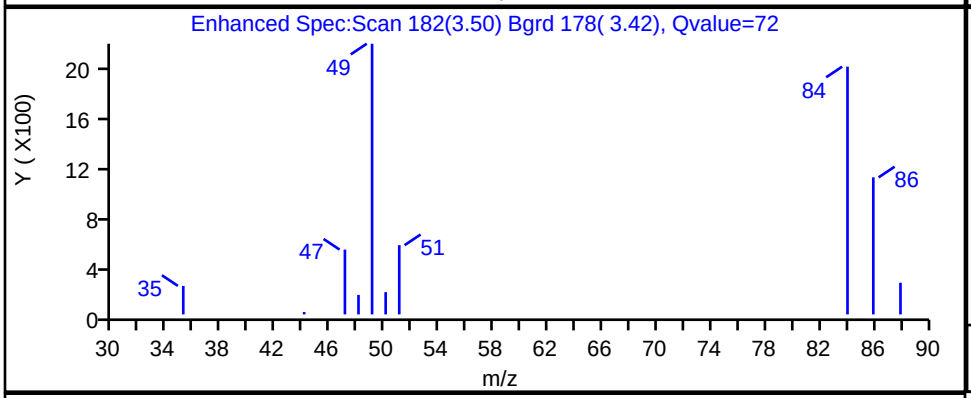
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d		
Injection Date:	27-Aug-2018 19:23:28	Instrument ID:	A3UX19
Lims ID:	std8260 L1		
Client ID:			
Operator ID:	001904	ALS Bottle#:	0 Worklist Smp#: 13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000
Method:	8260_19	Limit Group:	MSV 8260C ICAL
Column:	DB-624 (0.18 mm)	Detector	MS SCAN

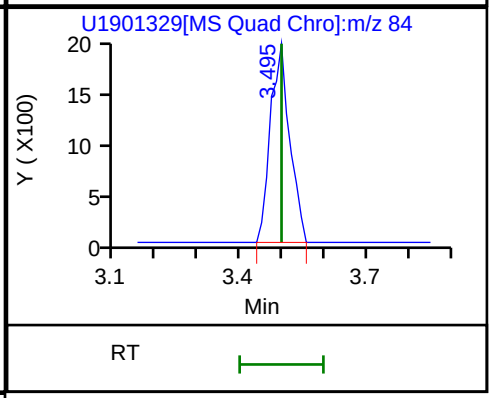
28 Methylene Chloride, CAS: 75-09-2

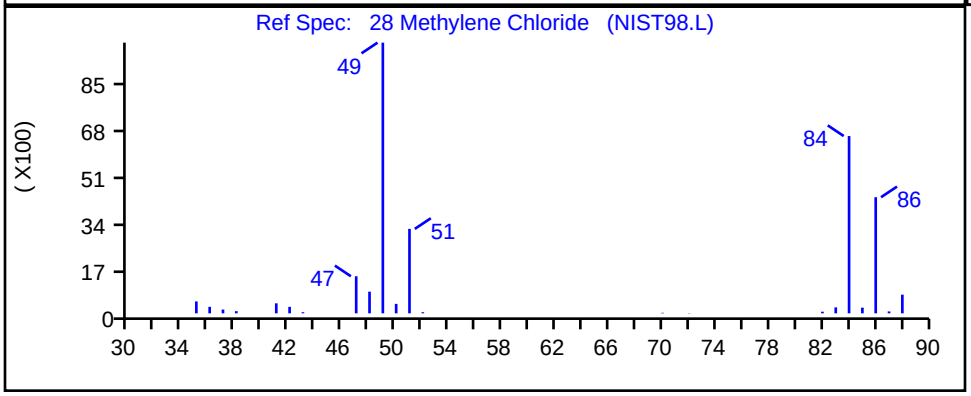
Processing Results











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

Report Date: 27-Aug-2018 21:29:03 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

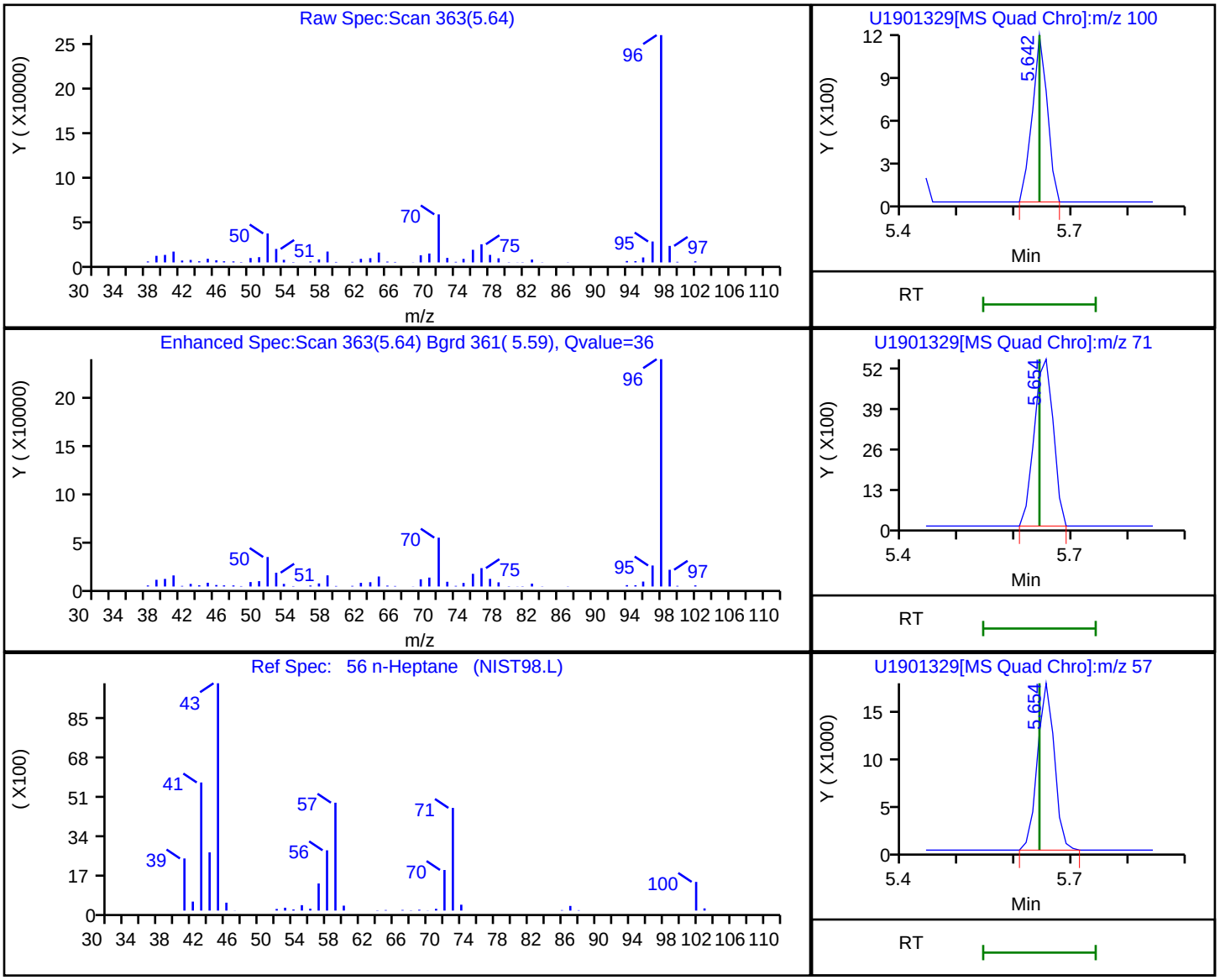
Injection Vol: 5.0 mL Dil. Factor: 1.0000

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

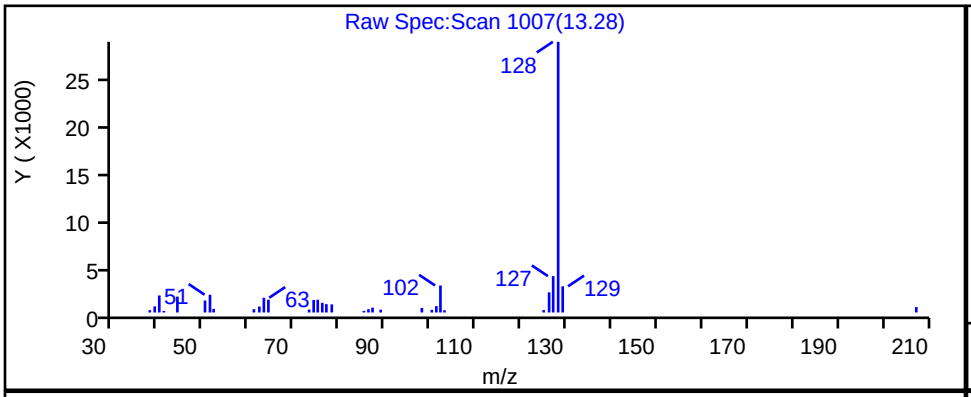
User Disabled Compound Report

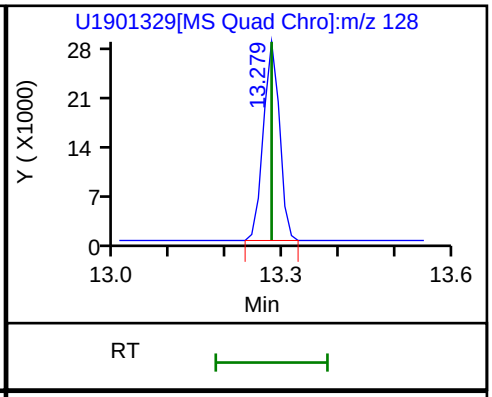
TestAmerica Canton

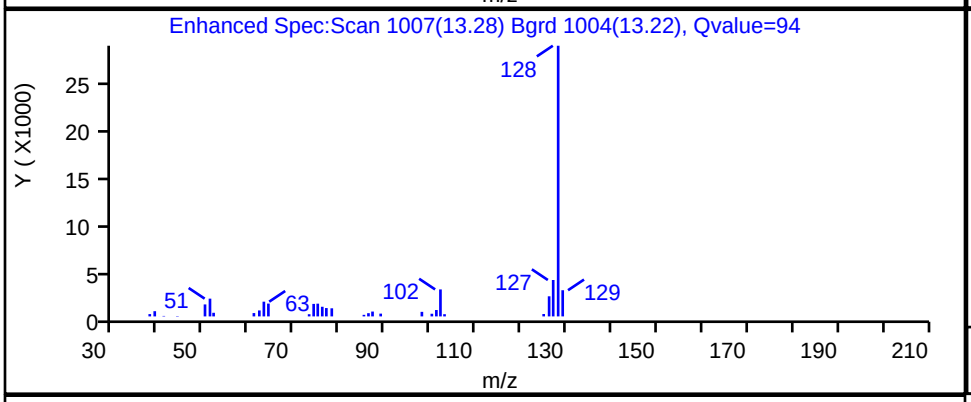
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d				
Injection Date:	27-Aug-2018 19:23:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

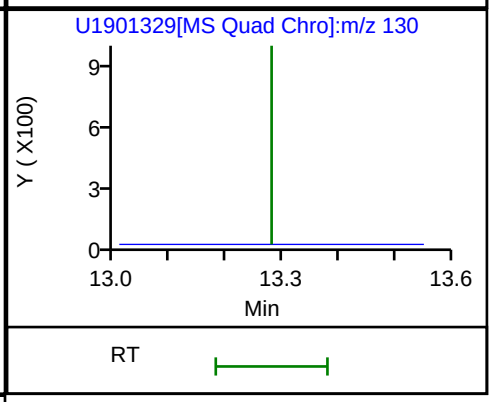
114 Naphthalene, CAS: 91-20-3

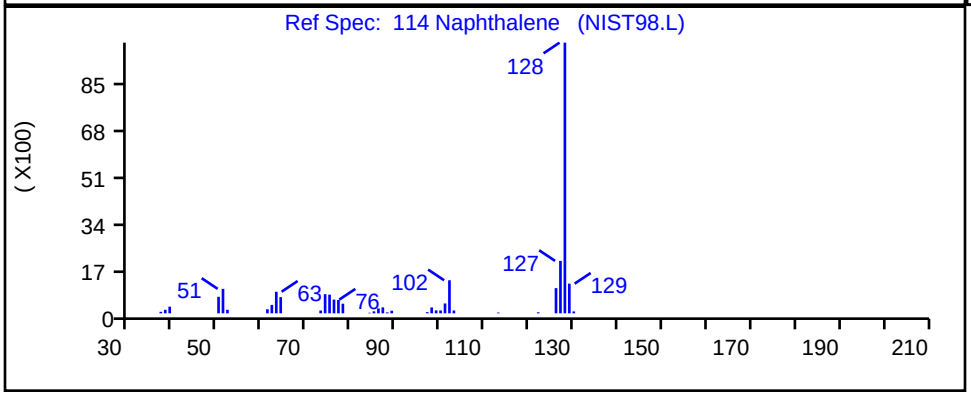
Processing Results











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

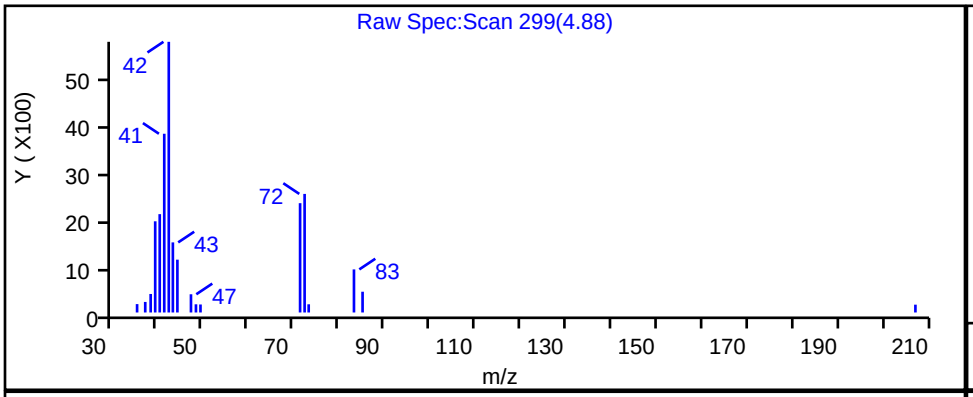
User Disabled Compound Report

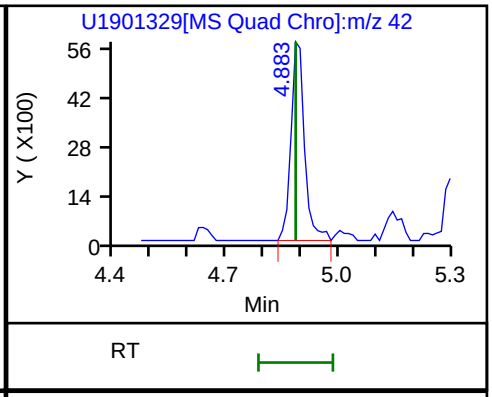
TestAmerica Canton

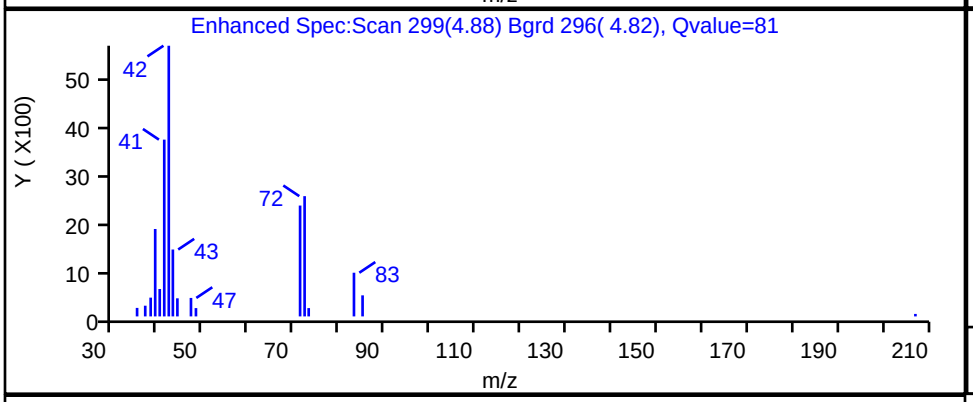
Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180827-79307.b\U1901329.d				
Injection Date:	27-Aug-2018 19:23:28	Instrument ID:	A3UX19		
Lims ID:	std8260 L1				
Client ID:					
Operator ID:	001904	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	8260_19	Limit Group:	MSV 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

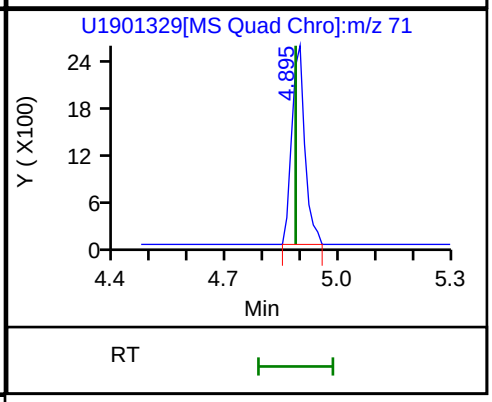
46 Tetrahydrofuran, CAS: 109-99-9

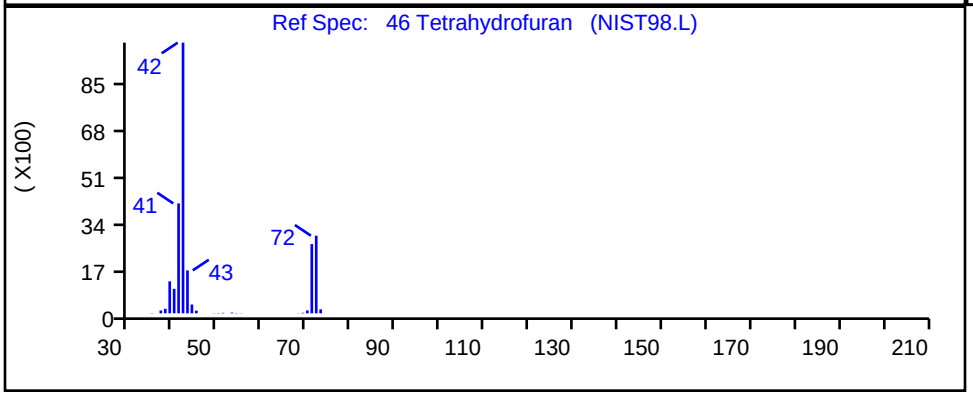
Processing Results











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

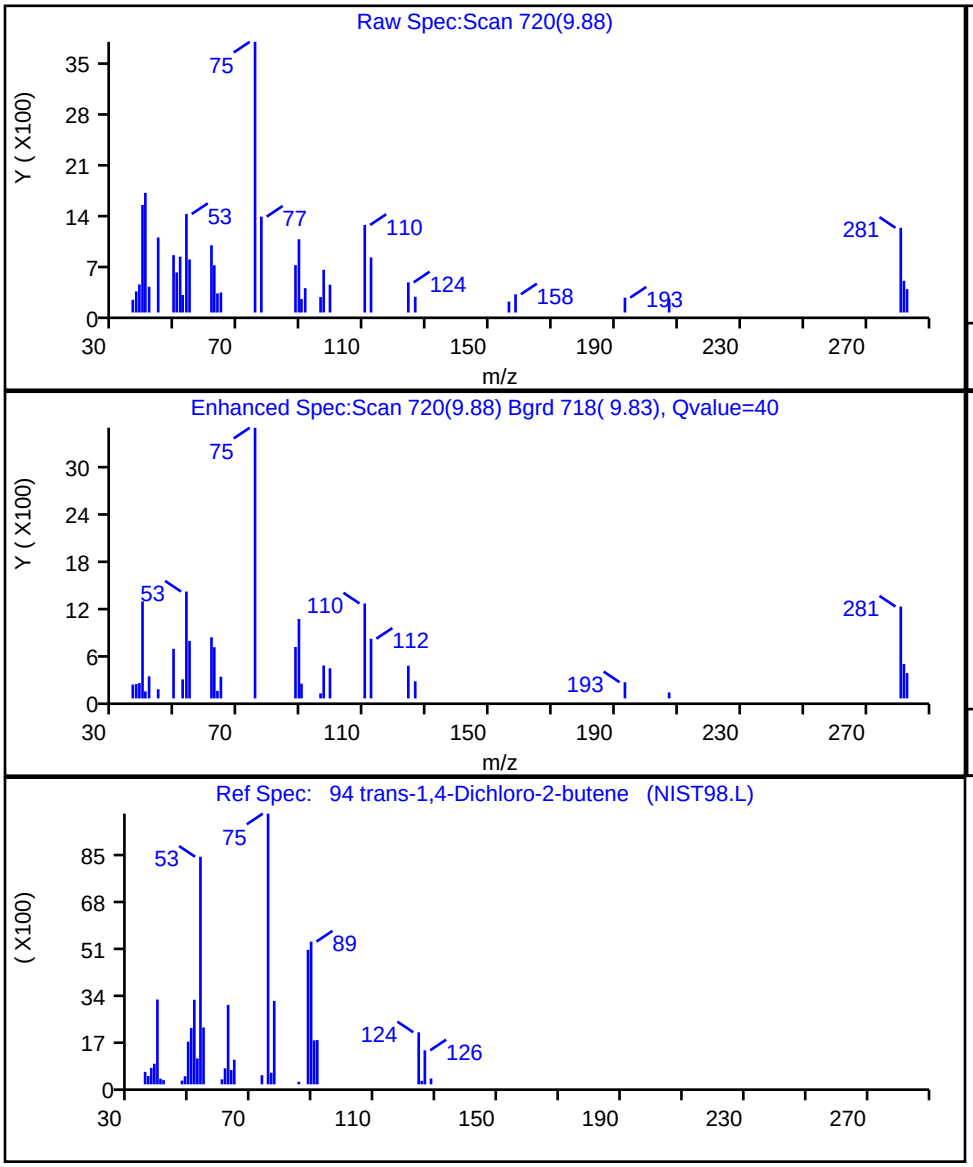
Injection Vol: 5.0 mL Dil. Factor: 1.0000

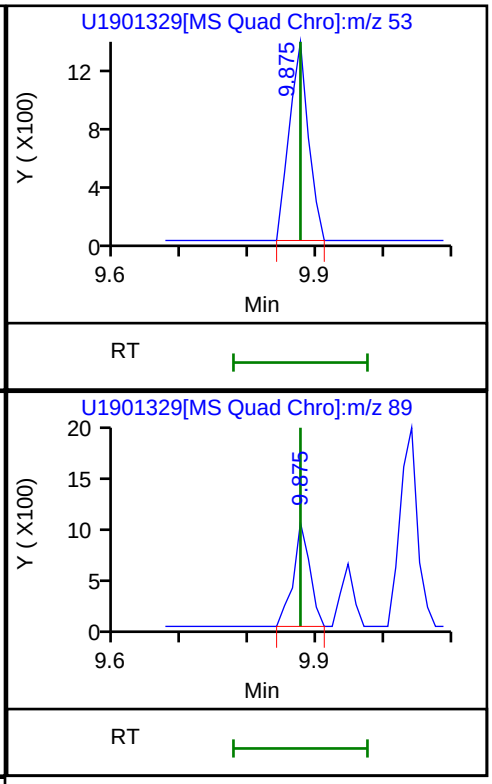
Method: 8260_19 Limit Group: MSV 8260C ICAL

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 VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-421991/17 Calibration Date: 02/07/2020 20:10

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM26861.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	0.2872	0.2039	0.1000	0.0142	0.0200	-29.0	30.0
Chloromethane	Ave	0.4309	0.3828	0.1000	0.0178	0.0200	-11.2	30.0
Vinyl chloride	Ave	0.4363	0.4173	0.1000	0.0191	0.0200	-4.4	30.0
Butadiene	Ave	0.3496	0.3387		0.0194	0.0200	-3.1	30.0
Bromomethane	Ave	0.2822	0.2756	0.0500	0.0195	0.0200	-2.3	30.0
Chloroethane	Ave	0.2288	0.2244	0.0500	0.0196	0.0200	-1.9	30.0
Dichlorofluoromethane	Ave	0.4564	0.4941		0.0217	0.0200	8.3	30.0
Trichlorofluoromethane	Ave	0.3605	0.3660	0.1000	0.0203	0.0200	1.5	30.0
Ethyl ether	Ave	0.2010	0.2000		0.0199	0.0200	-0.5	30.0
Acrolein	Ave	0.0395	0.0397		0.100	0.100	0.4	30.0
1,1-Dichloroethene	Ave	0.2204	0.2252	0.1000	0.0204	0.0200	2.2	30.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1452	0.1425	0.0500	0.0196	0.0200	-1.9	30.0
Acetone	Lin1		0.0198	0.0100	0.0383	0.0400	-4.1	50.0
Iodomethane	Ave	0.2509	0.2153		0.0172	0.0200	-14.2	30.0
Carbon disulfide	Ave	0.7696	0.7540	0.1000	0.0196	0.0200	-2.0	30.0
Methyl acetate	Ave	0.1749	0.1621	0.1000	0.0371	0.0400	-7.4	50.0
3-Chloro-1-propene	Ave	0.3901	0.3718		0.0191	0.0200	-4.7	30.0
Methylene Chloride	Ave	0.2676	0.2502	0.1000	0.0187	0.0200	-6.5	50.0
tert-Butyl alcohol	Ave	0.0216	0.0211		0.195	0.200	-2.5	30.0
Acrylonitrile	Ave	0.0991	0.0944		0.191	0.200	-4.7	30.0
Methyl tert-butyl ether	Ave	0.7185	0.6895	0.1000	0.0192	0.0200	-4.0	30.0
trans-1,2-Dichloroethene	Ave	0.2681	0.2603	0.1000	0.0194	0.0200	-2.9	30.0
Hexane	Ave	0.3670	0.3628		0.0198	0.0200	-1.1	30.0
Vinyl acetate	Ave	0.4123	0.3655		0.0177	0.0200	-11.4	30.0
1,1-Dichloroethane	Ave	0.4678	0.4540	0.2000	0.0194	0.0200	-3.0	30.0
2-Butanone	Ave	0.0274	0.0267	0.0100	0.0389	0.0400	-2.8	50.0
cis-1,2-Dichloroethene	Ave	0.2840	0.2789	0.1000	0.0196	0.0200	-1.8	30.0
2,2-Dichloropropane	Ave	0.4000	0.3820		0.0191	0.0200	-4.5	30.0
Bromochloromethane	Ave	0.1107	0.1076		0.0194	0.0200	-2.9	30.0
Tetrahydrofuran	Ave	0.0696	0.0669		0.0384	0.0400	-4.0	30.0
Chloroform	Ave	0.4308	0.4220	0.2000	0.0196	0.0200	-2.0	30.0
1,1,1-Trichloroethane	Ave	0.3709	0.3701	0.1000	0.0200	0.0200	-0.2	30.0
Cyclohexane	Ave	0.4269	0.4244	0.1000	0.0199	0.0200	-0.6	30.0
1,1-Dichloropropene	Ave	0.3760	0.3586		0.0191	0.0200	-4.6	30.0
Carbon tetrachloride	Ave	0.3039	0.2941	0.1000	0.0194	0.0200	-3.2	30.0
Isobutyl alcohol	Ave	0.0066	0.0064		0.488	0.500	-2.4	30.0
Benzene	Ave	1.109	1.062	0.5000	0.0192	0.0200	-4.2	30.0
1,2-Dichloroethane	Ave	0.3402	0.3323	0.1000	0.0195	0.0200	-2.3	30.0
n-Heptane	Lin1		0.2229		0.0194	0.0200	-3.2	30.0
Trichloroethene	Ave	0.2491	0.2422	0.1500	0.0195	0.0200	-2.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-421991/17 Calibration Date: 02/07/2020 20:10

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM26861.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	0.4546	0.4322	0.1000	0.0190	0.0200	-4.9	30.0
1,2-Dichloropropane	Ave	0.2573	0.2571	0.1000	0.0200	0.0200	-0.0	30.0
1,4-Dioxane	Ave	0.0030	0.0028		0.383	0.400	-4.3	50.0
Dibromomethane	Ave	0.1353	0.1347		0.0199	0.0200	-0.4	30.0
Bromodichloromethane	Ave	0.3022	0.3058	0.1500	0.0202	0.0200	1.2	30.0
2-Chloroethyl vinyl ether	Ave	0.1665	0.1488		0.0179	0.0200	-10.6	30.0
cis-1,3-Dichloropropene	Ave	0.3988	0.3952	0.1500	0.0198	0.0200	-0.9	50.0
4-Methyl-2-pentanone	Ave	0.1891	0.1879	0.0500	0.0397	0.0400	-0.6	50.0
Toluene	Ave	1.643	1.580	0.4000	0.0192	0.0200	-3.8	30.0
trans-1,3-Dichloropropene	Ave	0.5224	0.4750	0.1000	0.0182	0.0200	-9.1	30.0
Ethyl methacrylate	Ave	0.4095	0.4035		0.0197	0.0200	-1.5	30.0
1,1,2-Trichloroethane	Ave	0.2836	0.2775	0.1000	0.0196	0.0200	-2.2	30.0
Tetrachloroethene	Ave	0.2624	0.2543	0.1500	0.0194	0.0200	-3.1	30.0
1,3-Dichloropropane	Ave	0.5549	0.5382		0.0194	0.0200	-3.0	30.0
2-Hexanone	Ave	0.1911	0.1920	0.0500	0.0402	0.0400	0.4	50.0
Dibromochloromethane	Ave	0.2723	0.2726		0.0200	0.0200	0.1	30.0
1,2-Dibromoethane	Ave	0.2788	0.2738		0.0196	0.0200	-1.8	30.0
Chlorobenzene	Ave	0.9885	0.9470	0.3000	0.0192	0.0200	-4.2	30.0
1,1,1,2-Tetrachloroethane	Lin1		0.3003		0.0166	0.0200	-17.1	30.0
Ethylbenzene	Ave	0.5781	0.5466		0.0189	0.0200	-5.4	30.0
m-Xylene & p-Xylene	Ave	0.6835	0.6504		0.0190	0.0200	-4.8	30.0
o-Xylene	Ave	0.6707	0.6508		0.0194	0.0200	-3.0	30.0
Styrene	Lin1		1.089	0.3000	0.0172	0.0200	-14.1	30.0
Bromoform	Lin1		0.1494	0.1000	0.0173	0.0200	-13.7	30.0
Isopropylbenzene	Ave	1.706	1.671	0.1000	0.0196	0.0200	-2.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7569	0.7356	0.3000	0.0194	0.0200	-2.8	30.0
Bromobenzene	Ave	0.7427	0.7050		0.0190	0.0200	-5.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2554	0.2445		0.0191	0.0200	-4.3	30.0
1,2,3-Trichloropropane	Ave	0.2422	0.2311		0.0191	0.0200	-4.6	30.0
n-Propylbenzene	Ave	1.003	0.9596		0.0191	0.0200	-4.4	30.0
2-Chlorotoluene	Ave	0.8082	0.7747		0.0192	0.0200	-4.1	30.0
1,3,5-Trimethylbenzene	Ave	2.979	2.877		0.0193	0.0200	-3.4	30.0
4-Chlorotoluene	Ave	0.8455	0.8062		0.0191	0.0200	-4.7	30.0
tert-Butylbenzene	Ave	2.493	2.405		0.0193	0.0200	-3.5	30.0
1,2,4-Trimethylbenzene	Ave	2.962	2.913		0.0197	0.0200	-1.6	30.0
sec-Butylbenzene	Ave	3.847	3.744		0.0195	0.0200	-2.7	30.0
1,3-Dichlorobenzene	Ave	1.495	1.390	0.6000	0.0186	0.0200	-7.0	30.0
p-Isopropyltoluene	Ave	3.235	3.103		0.0192	0.0200	-4.1	30.0
1,4-Dichlorobenzene	Ave	1.499	1.420	0.5000	0.0189	0.0200	-5.3	30.0
n-Butylbenzene	Ave	3.004	2.922		0.0195	0.0200	-2.7	30.0
1,2-Dichlorobenzene	Ave	1.362	1.259	0.4000	0.0185	0.0200	-7.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-421991/17 Calibration Date: 02/07/2020 20:10

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM26861.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	0.1219	0.1158	0.0500	0.0190	0.0200	-5.0	50.0
1,2,4-Trichlorobenzene	Ave	0.7237	0.6849	0.2000	0.0189	0.0200	-5.4	50.0
Hexachlorobutadiene	Ave	0.3183	0.2931		0.0184	0.0200	-7.9	50.0
Naphthalene	Ave	2.161	1.982		0.0183	0.0200	-8.3	50.0
1,2,3-Trichlorobenzene	Ave	0.6486	0.6087		0.0188	0.0200	-6.1	30.0
Dibromofluoromethane (Surr)	Ave	0.2086	0.2238		0.0215	0.0200	7.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2713	0.2776		0.0205	0.0200	2.3	30.0
Toluene-d8 (Surr)	Ave	1.312	1.345		0.0205	0.0200	2.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4527	0.5377		0.0238	0.0200	18.8	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26861.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 07-Feb-2020 20:10:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-017
Operator ID: 001765 Instrument ID: A3UX16
Sublist:

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:34 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 08:43:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.929	0.000	99	1181441	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	88	813742	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	389644	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	264347	20.0	21.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	327928	20.0	20.5	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	1094535	20.0	20.5	
$ 7 4-Bromofluorobenzene (Surr	95	9.783	9.794	-0.011	84	437544	20.0	23.8	
9 Dichlorodifluoromethane	85	1.754	1.754	0.000	99	240903	20.0	14.2	
10 Chloromethane	50	1.956	1.956	0.000	98	452250	20.0	17.8	
11 Vinyl chloride	62	2.075	2.075	0.001	97	493000	20.0	19.1	
12 Butadiene	54	2.110	2.122	-0.012	91	400152	20.0	19.4	
13 Bromomethane	94	2.419	2.418	0.001	91	325625	20.0	19.5	
14 Chloroethane	64	2.537	2.537	0.000	99	265101	20.0	19.6	
15 Dichlorofluoromethane	67	2.774	2.774	0.000	97	583793	20.0	21.7	
16 Trichlorofluoromethane	101	2.798	2.810	-0.012	97	432343	20.0	20.3	
17 Ethyl ether	59	3.083	3.082	0.001	89	236277	20.0	19.9	
18 Acrolein	56	3.225	3.225	0.000	99	234525	100.0	100.4	
19 1,1-Dichloroethene	96	3.320	3.320	0.000	97	266055	20.0	20.4	
20 1,1,2-Trichloro-1,2,2-trif	151	3.332	3.332	0.000	95	168301	20.0	19.6	
21 Acetone	58	3.367	3.355	0.012	100	46764	40.0	38.3	
23 Iodomethane	142	3.474	3.474	0.000	98	254361	20.0	17.2	
24 Carbon disulfide	76	3.533	3.533	0.000	99	890774	20.0	19.6	
27 Methyl acetate	43	3.652	3.652	0.000	97	382921	40.0	37.1	
26 3-Chloro-1-propene	41	3.676	3.675	0.001	90	439231	20.0	19.1	
28 Methylene Chloride	84	3.794	3.794	0.000	93	295645	20.0	18.7	
29 2-Methyl-2-propanol	59	3.877	3.877	0.000	100	249127	200.0	195.1	
30 Acrylonitrile	53	4.008	4.007	0.001	99	1115685	200.0	190.7	
31 Methyl tert-butyl ether	73	4.031	4.031	0.000	95	814550	20.0	19.2	
32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	99	307522	20.0	19.4	
33 Hexane	57	4.280	4.292	-0.012	91	428665	20.0	19.8	
35 Vinyl acetate	43	4.423	4.422	0.001	97	431770	20.0	17.7	

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	4.434	4.434	0.000	96	536327	20.0	19.4	
40 2-Butanone (MEK)	72	4.921	4.921	0.000	99	63030	40.0	38.9	
41 2,2-Dichloropropane	77	4.944	4.944	0.000	89	451337	20.0	19.1	
39 cis-1,2-Dichloroethene	96	4.933	4.944	-0.011	83	329520	20.0	19.6	
45 Chlorobromomethane	128	5.146	5.146	0.000	98	127074	20.0	19.4	
46 Tetrahydrofuran	42	5.146	5.146	0.000	86	157970	40.0	38.4	
47 Chloroform	83	5.229	5.229	0.000	94	498603	20.0	19.6	
48 1,1,1-Trichloroethane	97	5.371	5.371	0.000	99	437277	20.0	20.0	
49 Cyclohexane	56	5.431	5.430	0.001	88	501364	20.0	19.9	
50 1,1-Dichloropropene	75	5.514	5.513	0.001	95	423712	20.0	19.1	
51 Carbon tetrachloride	117	5.514	5.513	0.001	83	347493	20.0	19.4	
52 Isobutyl alcohol	41	5.561	5.561	0.000	94	189739	500.0	488.2	
54 Benzene	78	5.680	5.679	0.001	96	1255257	20.0	19.2	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	98	392585	20.0	19.5	
56 n-Heptane	57	5.905	5.917	-0.012	90	263315	20.0	19.4	
58 Trichloroethene	130	6.249	6.249	0.000	98	286198	20.0	19.5	
60 Methylcyclohexane	83	6.450	6.450	0.000	90	510631	20.0	19.0	
61 1,2-Dichloropropane	63	6.474	6.474	0.000	94	303778	20.0	20.0	
64 1,4-Dioxane	88	6.522	6.521	0.001	93	67167	400.0	382.8	
63 Dibromomethane	93	6.545	6.545	0.000	93	159088	20.0	19.9	
65 Dichlorobromomethane	83	6.688	6.699	-0.011	99	361296	20.0	20.2	
67 2-Chloroethyl vinyl ether	63	6.925	6.925	0.000	92	175811	20.0	17.9	
68 cis-1,3-Dichloropropene	75	7.079	7.079	0.000	94	466952	20.0	19.8	
69 4-Methyl-2-pentanone (MIBK	43	7.198	7.197	0.001	96	444025	40.0	39.7	
70 Toluene	91	7.375	7.375	0.000	98	1285539	20.0	19.2	
71 trans-1,3-Dichloropropene	75	7.577	7.577	0.000	95	386489	20.0	18.2	
72 Ethyl methacrylate	69	7.613	7.612	0.001	88	328320	20.0	19.7	
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	91	225841	20.0	19.6	
75 Tetrachloroethene	164	7.850	7.850	0.000	94	206926	20.0	19.4	
74 1,3-Dichloropropane	76	7.909	7.909	0.000	91	437967	20.0	19.4	
76 2-Hexanone	43	7.945	7.944	0.001	94	312429	40.0	40.2	
78 Chlorodibromomethane	129	8.111	8.110	0.001	90	221829	20.0	20.0	
80 Ethylene Dibromide	107	8.229	8.241	-0.012	98	222778	20.0	19.6	
82 Chlorobenzene	112	8.692	8.692	0.000	95	770594	20.0	19.2	
83 1,1,1,2-Tetrachloroethane	131	8.763	8.763	0.000	94	244347	20.0	16.6	
84 Ethylbenzene	106	8.775	8.775	0.000	99	444794	20.0	18.9	
85 m-Xylene & p-Xylene	106	8.893	8.893	0.000	97	529264	20.0	19.0	
86 o-Xylene	106	9.261	9.261	0.000	98	529612	20.0	19.4	
87 Styrene	104	9.285	9.284	0.001	95	886190	20.0	17.2	
88 Bromoform	173	9.463	9.462	0.000	94	121537	20.0	17.3	
89 Isopropylbenzene	105	9.617	9.617	0.000	96	1359513	20.0	19.6	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	94	286625	20.0	19.4	
93 Bromobenzene	156	9.937	9.937	0.000	97	274688	20.0	19.0	
94 trans-1,4-Dichloro-2-buten	53	9.949	9.949	0.000	83	95248	20.0	19.1	
95 1,2,3-Trichloropropane	110	9.972	9.972	0.000	83	90062	20.0	19.1	
96 N-Propylbenzene	120	10.020	10.020	0.000	99	373884	20.0	19.1	
97 2-Chlorotoluene	126	10.115	10.115	0.000	95	301867	20.0	19.2	
99 1,3,5-Trimethylbenzene	105	10.198	10.198	0.000	93	1121174	20.0	19.3	
100 4-Chlorotoluene	126	10.233	10.233	0.000	98	314124	20.0	19.1	
102 tert-Butylbenzene	119	10.506	10.506	0.000	93	936951	20.0	19.3	
104 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	97	1135198	20.0	19.7	
105 sec-Butylbenzene	105	10.731	10.731	0.000	94	1458668	20.0	19.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 1,3-Dichlorobenzene	146	10.862	10.862	0.000	97	541541	20.0	18.6	
107 4-Isopropyltoluene	119	10.874	10.885	-0.011	97	1209166	20.0	19.2	
108 1,4-Dichlorobenzene	146	10.957	10.957	0.000	93	553388	20.0	18.9	
111 n-Butylbenzene	91	11.289	11.289	0.000	98	1138457	20.0	19.5	
112 1,2-Dichlorobenzene	146	11.324	11.324	0.000	96	490401	20.0	18.5	
113 1,2-Dibromo-3-Chloropropan	157	12.107	12.107	0.000	78	45122	20.0	19.0	
115 1,2,4-Trichlorobenzene	180	12.937	12.937	0.000	94	266859	20.0	18.9	
116 Hexachlorobutadiene	225	13.091	13.091	0.000	95	114218	20.0	18.4	
117 Naphthalene	128	13.234	13.233	0.001	97	772178	20.0	18.3	
118 1,2,3-Trichlorobenzene	180	13.483	13.482	0.001	93	237187	20.0	18.8	
S 134 Trihalomethanes, Total	1				0		80.0	77.1	
S 158 Total BTEX	1				0		100.0	95.7	
S 133 Xylenes, Total	106				0		40.0	38.4	

Reagents:

vmfasgw_00345	Amount Added:	16.00	Units: uL	
vmfasaw_00315	Amount Added:	16.00	Units: uL	
vmfaspw_00337	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00162	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

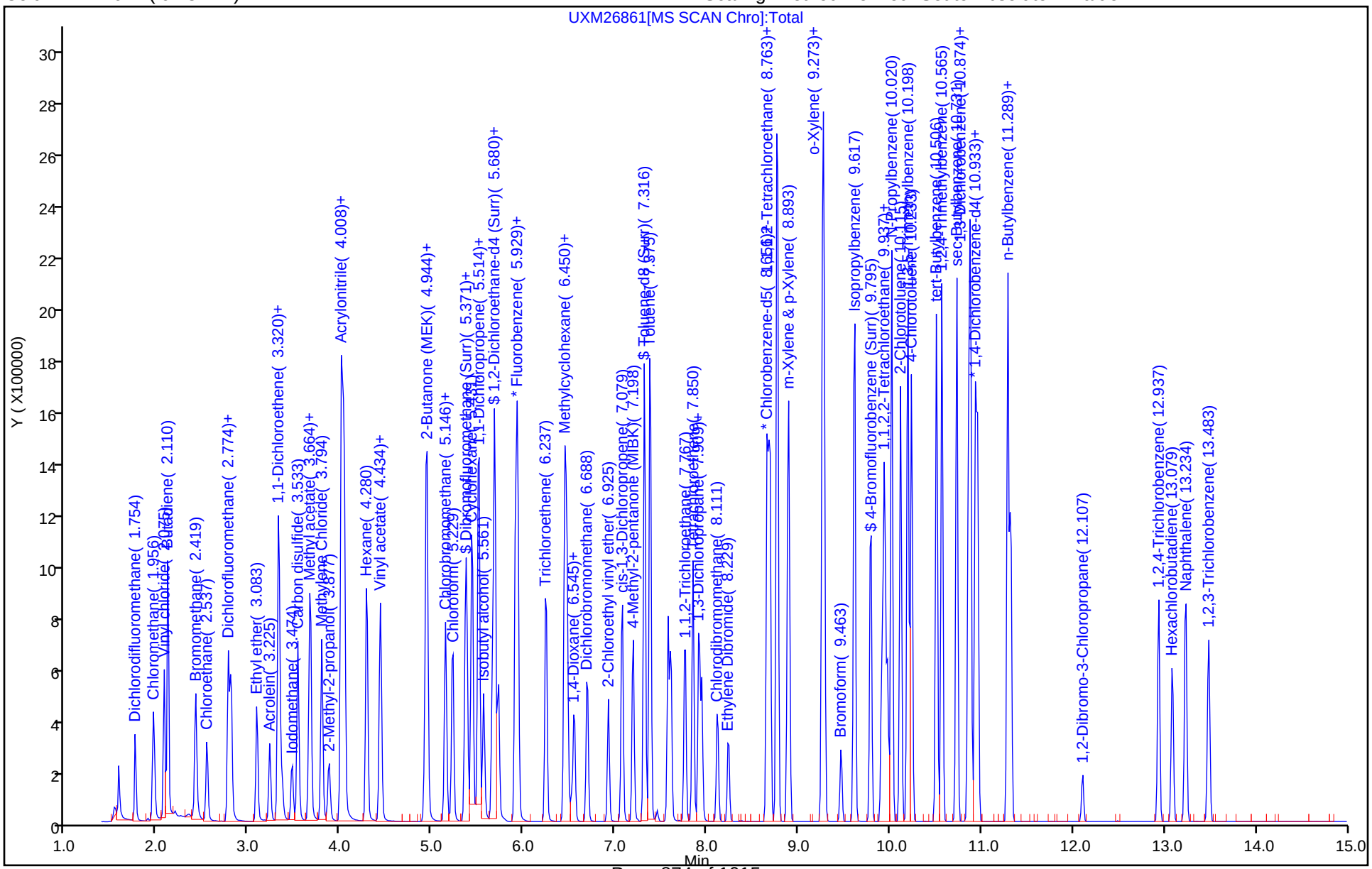
Report Date: 10-Feb-2020 13:40:42 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26861.D

Injection Date:	07-Feb-2020 20:10:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICV			Worklist Smp#:	17
Client ID:					
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



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-421991/26 Calibration Date: 02/07/2020 23:53

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM26870.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	0.2086	0.2025		0.0194	0.0200	-2.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2713	0.2642		0.0195	0.0200	-2.6	30.0
Toluene-d8 (Surr)	Ave	1.312	1.208		0.0184	0.0200	-7.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4527	0.4793		0.0212	0.0200	5.9	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26870.D
Lims ID: ICV a9
Client ID:
Sample Type: ICV
Inject. Date: 07-Feb-2020 23:53:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-026
Operator ID: 001765 Instrument ID: A3UX16
Sublist:

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:58 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 08:50:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.929	0.000	99	1105970	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	89	773771	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	350170	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	223929	20.0	19.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	292169	20.0	19.5	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	934431	20.0	18.4	
$ 7 4-Bromofluorobenzene (Surr	95	9.783	9.794	-0.011	83	370831	20.0	21.2	
25 Acetonitrile	41	3.628	3.628	0.000	100	386987	200.0	197.0	
36 Isopropyl ether	87	4.458	4.458	0.000	93	237117	20.0	20.7	
37 2-Chloro-1,3-butadiene	53	4.506	4.506	0.000	92	439721	20.0	20.9	
38 Tert-butyl ethyl ether	59	4.767	4.767	0.000	98	792545	20.0	20.5	
43 Ethyl acetate	43	4.944	4.944	0.000	99	467939	40.0	38.0	
42 Propionitrile	54	4.980	4.980	0.000	99	435141	200.0	205.7	
44 Methacrylonitrile	41	5.110	5.110	0.000	91	1748899	200.0	196.1	
163 Isooctane	57	5.763	5.774	-0.011	95	796853	20.0	19.6	
55 Tert-amyl methyl ether	73	5.774	5.774	0.000	97	745782	20.0	20.1	
57 n-Butanol	56	6.130	6.118	0.012	87	152836	500.0	457.0	
59 Ethyl acrylate	55	6.296	6.296	0.000	99	295495	20.0	19.7	
62 Methyl methacrylate	41	6.498	6.498	0.000	90	436915	40.0	40.6	
66 2-Nitropropane	41	6.889	6.889	0.000	98	138354	40.0	39.2	
77 n-Butyl acetate	43	8.039	8.039	0.000	95	333493	20.0	19.8	
81 1-Chlorohexane	91	8.644	8.644	0.000	97	410696	20.0	20.5	
91 Cyclohexanone	55	9.712	9.712	0.000	92	76987	200.0	189.6	
103 Pentachloroethane	167	10.553	10.553	0.000	92	66585	40.0	18.7	
109 1,2,3-Trimethylbenzene	105	10.980	10.980	0.000	98	1073064	20.0	21.6	
110 Benzyl chloride	126	11.075	11.075	0.000	99	80796	20.0	18.5	
114 1,3,5-Trichlorobenzene	180	12.285	12.285	0.000	96	310164	20.0	20.5	
119 2-Methylnaphthalene	142	14.692	14.692	0.000	93	659762	40.0	36.2	
162 1-Methylnaphthalene	142	14.965	14.965	0.000	0	613682	40.0	38.7	

Reagents:

VMFASA9W_00264	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00162	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

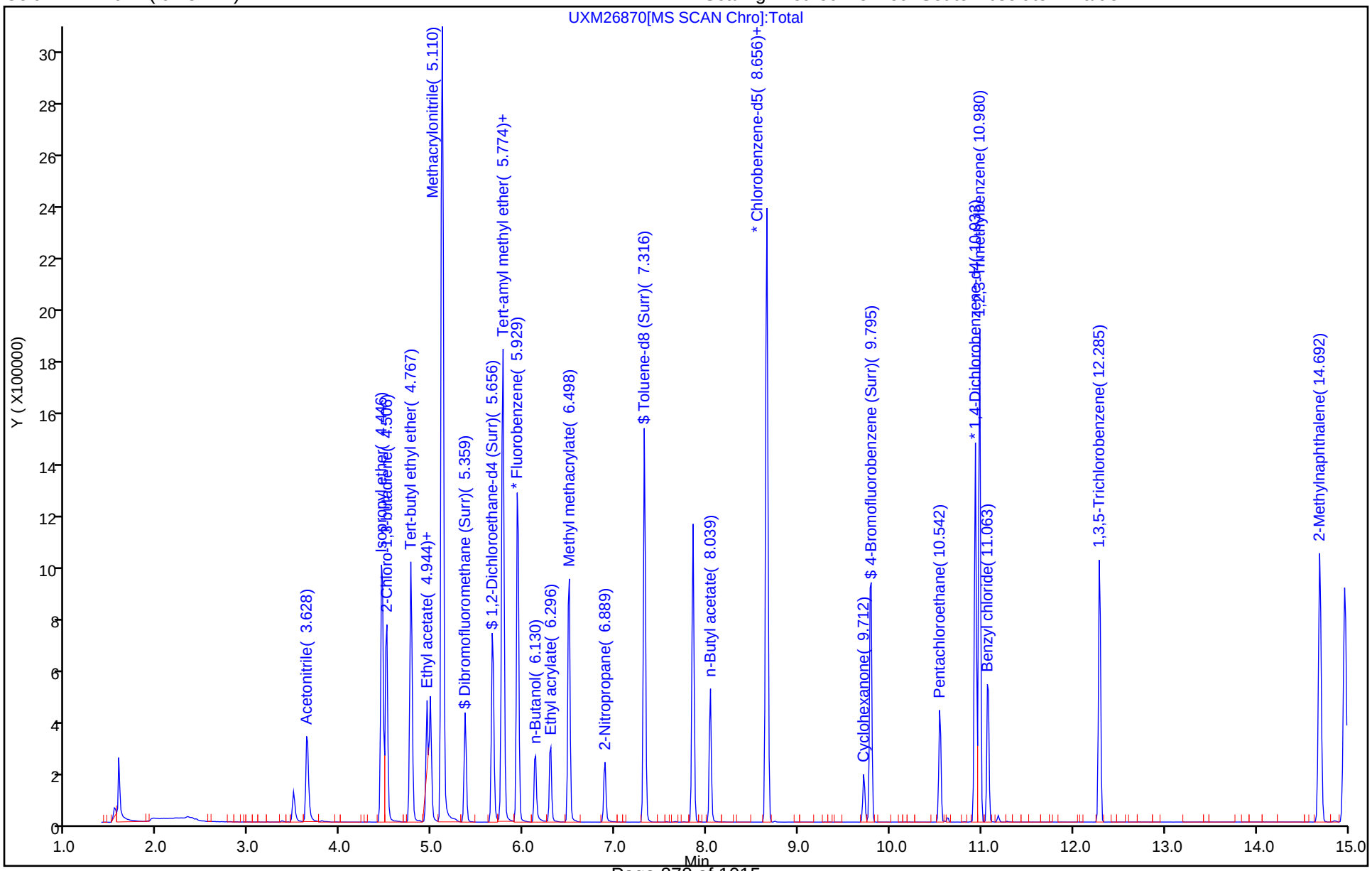
Report Date: 10-Feb-2020 13:41:05 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26870.D

Injection Date:	07-Feb-2020 23:53:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICV a9			Worklist Smp#:	26
Client ID:					
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



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-421991/26 Calibration Date: 02/07/2020 23:53

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 21:24

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 23:28

Lab File ID: UXM26870.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	0.0355	0.0350		0.197	0.200	-1.5	30.0
Diisopropyl ether	Ave	0.2073	0.2144		0.0207	0.0200	3.4	30.0
2-Chloro-1,3-butadiene	Ave	0.3800	0.3976		0.0209	0.0200	4.6	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7002	0.7166		0.0205	0.0200	2.3	30.0
Ethyl acetate	Ave	0.2229	0.2116		0.0380	0.0400	-5.1	30.0
Propionitrile	Ave	0.0383	0.0393		0.206	0.200	2.8	30.0
Methacrylonitrile	Ave	0.1613	0.1581		0.196	0.200	-2.0	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.6703	0.6743		0.0201	0.0200	0.6	30.0
n-Butanol	Ave	0.0060	0.0055		0.457	0.500	-8.6	30.0
Ethyl acrylate	Ave	0.2711	0.2672		0.0197	0.0200	-1.4	30.0
Methyl methacrylate	Ave	0.1945	0.1975		0.0406	0.0400	1.6	30.0
2-Nitropropane	Ave	0.0638	0.0626		0.0392	0.0400	-2.0	30.0
n-Butyl acetate	Ave	0.3053	0.3015		0.0198	0.0200	-1.2	30.0
1-Chlorohexane	Ave	0.5180	0.5308		0.0205	0.0200	2.5	30.0
Cyclohexanone	Ave	0.0232	0.0220		0.190	0.200	-5.2	30.0
Pentachloroethane	Ave	0.0922	0.0430		0.0187	0.0400	-53.4*	30.0
1,2,3-Trimethylbenzene	Ave	2.840	3.064		0.0216	0.0200	7.9	30.0
Benzyl chloride	Ave	0.2499	0.2307		0.0185	0.0200	-7.7	30.0
1,3,5-Trichlorobenzene	Ave	0.8652	0.8858		0.0205	0.0200	2.4	30.0
2-Methylnaphthalene	Ave	1.041	0.9421		0.0362	0.0400	-9.5	30.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26870.D
Lims ID: ICV a9
Client ID:
Sample Type: ICV
Inject. Date: 07-Feb-2020 23:53:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-026
Operator ID: 001765 Instrument ID: A3UX16
Sublist:

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 10-Feb-2020 13:40:58 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0311

First Level Reviewer: bosworthh Date: 10-Feb-2020 08:50:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.929	0.000	99	1105970	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	89	773771	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	350170	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	223929	20.0	19.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	292169	20.0	19.5	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	934431	20.0	18.4	
$ 7 4-Bromofluorobenzene (Surr	95	9.783	9.794	-0.011	83	370831	20.0	21.2	
25 Acetonitrile	41	3.628	3.628	0.000	100	386987	200.0	197.0	
36 Isopropyl ether	87	4.458	4.458	0.000	93	237117	20.0	20.7	
37 2-Chloro-1,3-butadiene	53	4.506	4.506	0.000	92	439721	20.0	20.9	
38 Tert-butyl ethyl ether	59	4.767	4.767	0.000	98	792545	20.0	20.5	
43 Ethyl acetate	43	4.944	4.944	0.000	99	467939	40.0	38.0	
42 Propionitrile	54	4.980	4.980	0.000	99	435141	200.0	205.7	
44 Methacrylonitrile	41	5.110	5.110	0.000	91	1748899	200.0	196.1	
163 Isooctane	57	5.763	5.774	-0.011	95	796853	20.0	19.6	
55 Tert-amyl methyl ether	73	5.774	5.774	0.000	97	745782	20.0	20.1	
57 n-Butanol	56	6.130	6.118	0.012	87	152836	500.0	457.0	
59 Ethyl acrylate	55	6.296	6.296	0.000	99	295495	20.0	19.7	
62 Methyl methacrylate	41	6.498	6.498	0.000	90	436915	40.0	40.6	
66 2-Nitropropane	41	6.889	6.889	0.000	98	138354	40.0	39.2	
77 n-Butyl acetate	43	8.039	8.039	0.000	95	333493	20.0	19.8	
81 1-Chlorohexane	91	8.644	8.644	0.000	97	410696	20.0	20.5	
91 Cyclohexanone	55	9.712	9.712	0.000	92	76987	200.0	189.6	
103 Pentachloroethane	167	10.553	10.553	0.000	92	66585	40.0	18.7	
109 1,2,3-Trimethylbenzene	105	10.980	10.980	0.000	98	1073064	20.0	21.6	
110 Benzyl chloride	126	11.075	11.075	0.000	99	80796	20.0	18.5	
114 1,3,5-Trichlorobenzene	180	12.285	12.285	0.000	96	310164	20.0	20.5	
119 2-Methylnaphthalene	142	14.692	14.692	0.000	93	659762	40.0	36.2	
162 1-Methylnaphthalene	142	14.965	14.965	0.000	0	613682	40.0	38.7	

Reagents:

VMFASA9W_00264	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00162	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

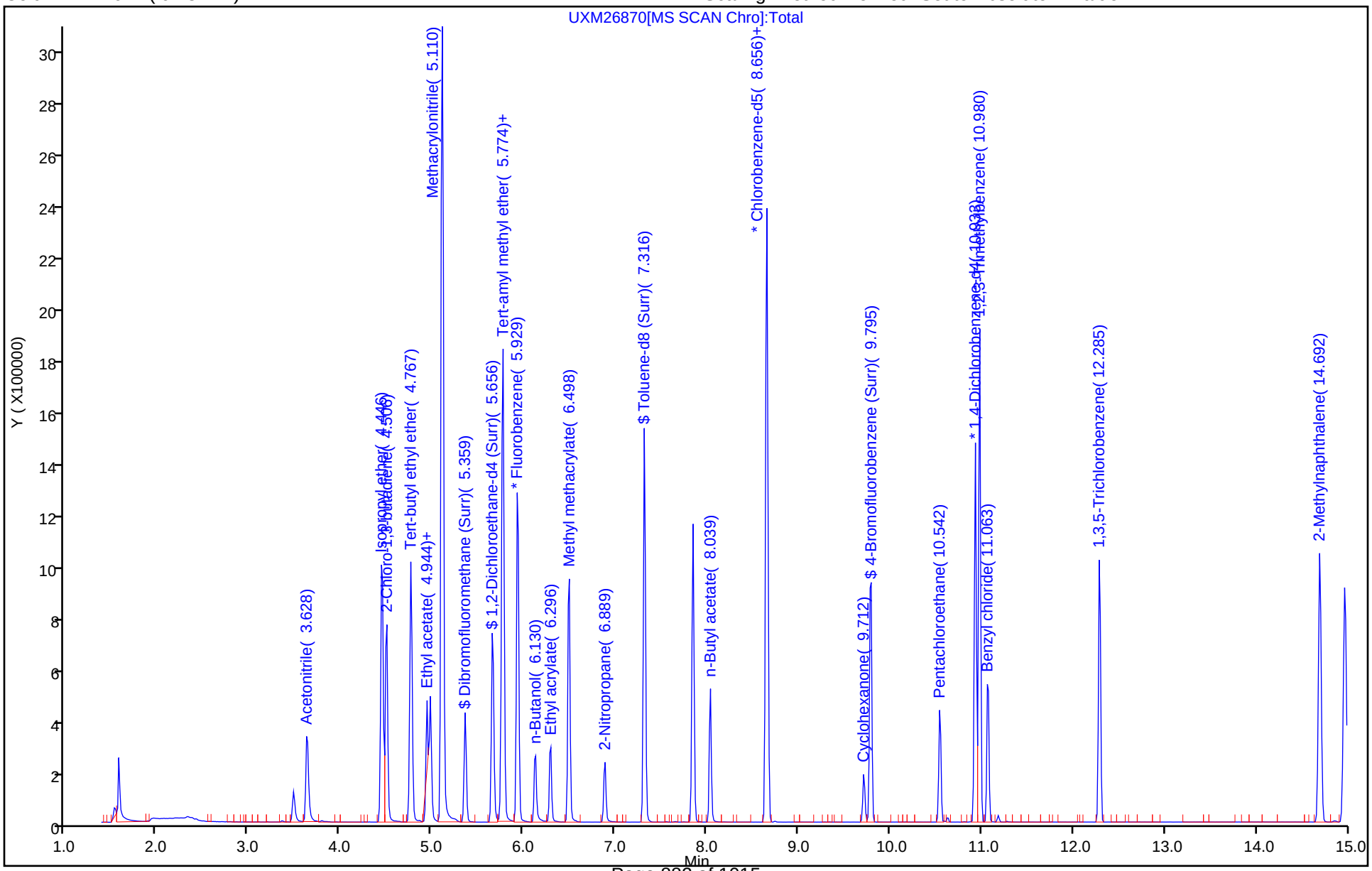
Report Date: 10-Feb-2020 13:41:05 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26870.D

Injection Date:	07-Feb-2020 23:53:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	ICV a9			Worklist Smp#:	26
Client ID:					
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



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCVIS 240-425629/3 Calibration Date: 03/06/2020 10:52

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM27176.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	0.2872	0.3154	0.1000	0.0220	0.0200	9.8	20.0
Chloromethane	Ave	0.4309	0.4229	0.1000	0.0196	0.0200	-1.8	20.0
Vinyl chloride	Ave	0.4363	0.4656	0.1000	0.0213	0.0200	6.7	20.0
Butadiene	Ave	0.3496	0.3823		0.0219	0.0200	9.4	20.0
Bromomethane	Ave	0.2822	0.1969	0.0500	0.0140	0.0200	-30.2*	20.0
Chloroethane	Ave	0.2288	0.2426	0.0500	0.0212	0.0200	6.0	20.0
Dichlorofluoromethane	Ave	0.4564	0.4631		0.0203	0.0200	1.5	20.0
Trichlorofluoromethane	Ave	0.3605	0.3875	0.1000	0.0215	0.0200	7.5	20.0
Ethyl ether	Ave	0.2010	0.1948		0.0194	0.0200	-3.1	20.0
Acrolein	Ave	0.0395	0.0325		0.0822	0.100	-17.8	20.0
1,1-Dichloroethene	Ave	0.2204	0.2319	0.1000	0.0210	0.0200	5.2	20.0
1,1,2-Trichloro-1,2,2-trichf luoroethane	Ave	0.1452	0.1765	0.0500	0.0243	0.0200	21.6*	20.0
Acetone	Lin1		0.0209	0.0100	0.0405	0.0400	1.3	50.0
Iodomethane	Ave	0.2509	0.1517		0.0121	0.0200	-39.5*	20.0
Carbon disulfide	Ave	0.7696	0.7967	0.1000	0.0207	0.0200	3.5	20.0
Methyl acetate	Ave	0.1749	0.1615	0.1000	0.0369	0.0400	-7.7	50.0
3-Chloro-1-propene	Ave	0.3901	0.3706		0.0190	0.0200	-5.0	20.0
Methylene Chloride	Ave	0.2676	0.2657	0.1000	0.0199	0.0200	-0.7	50.0
tert-Butyl alcohol	Ave	0.0216	0.0154		0.142	0.200	-29.0*	20.0
Acrylonitrile	Ave	0.0991	0.0973		0.196	0.200	-1.8	20.0
Methyl tert-butyl ether	Ave	0.7185	0.6213	0.1000	0.0173	0.0200	-13.5	20.0
trans-1,2-Dichloroethene	Ave	0.2681	0.2739	0.1000	0.0204	0.0200	2.2	20.0
Hexane	Ave	0.3670	0.4246		0.0231	0.0200	15.7	20.0
Vinyl acetate	Ave	0.4123	0.3781		0.0183	0.0200	-8.3	20.0
1,1-Dichloroethane	Ave	0.4678	0.4643	0.2000	0.0198	0.0200	-0.8	20.0
2-Butanone	Ave	0.0274	0.0250	0.0100	0.0364	0.0400	-9.0	50.0
cis-1,2-Dichloroethene	Ave	0.2840	0.2888	0.1000	0.0203	0.0200	1.7	20.0
2,2-Dichloropropane	Ave	0.4000	0.3627		0.0181	0.0200	-9.3	20.0
Bromochloromethane	Ave	0.1107	0.1178		0.0213	0.0200	6.4	20.0
Tetrahydrofuran	Ave	0.0696	0.0615		0.0353	0.0400	-11.8	20.0
Chloroform	Ave	0.4308	0.4293	0.2000	0.0199	0.0200	-0.4	20.0
1,1,1-Trichloroethane	Ave	0.3709	0.3563	0.1000	0.0192	0.0200	-3.9	20.0
Cyclohexane	Ave	0.4269	0.4769	0.1000	0.0223	0.0200	11.7	20.0
1,1-Dichloropropene	Ave	0.3760	0.3702		0.0197	0.0200	-1.6	20.0
Carbon tetrachloride	Ave	0.3039	0.3009	0.1000	0.0198	0.0200	-1.0	20.0
Isobutyl alcohol	Ave	0.0066	0.0058		0.444	0.500	-11.2	20.0
Benzene	Ave	1.109	1.113	0.5000	0.0201	0.0200	0.3	20.0
1,2-Dichloroethane	Ave	0.3402	0.3230	0.1000	0.0190	0.0200	-5.0	20.0
n-Heptane	Lin1		0.2488		0.0220	0.0200	9.8	20.0
Trichloroethene	Ave	0.2491	0.2555	0.1500	0.0205	0.0200	2.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCVIS 240-425629/3 Calibration Date: 03/06/2020 10:52

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM27176.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	0.4546	0.5017	0.1000	0.0221	0.0200	10.4	20.0
1,2-Dichloropropane	Ave	0.2573	0.2550	0.1000	0.0198	0.0200	-0.9	20.0
1,4-Dioxane	Ave	0.0030	0.0028		0.372	0.400	-7.0	50.0
Dibromomethane	Ave	0.1353	0.1357		0.0201	0.0200	0.3	20.0
Bromodichloromethane	Ave	0.3022	0.2892	0.1500	0.0191	0.0200	-4.3	20.0
2-Chloroethyl vinyl ether	Ave	0.1665	0.1439		0.0346	0.0400	-13.6	20.0
cis-1,3-Dichloropropene	Ave	0.3988	0.3762	0.1500	0.0189	0.0200	-5.7	50.0
4-Methyl-2-pentanone	Ave	0.1891	0.1688	0.0500	0.0357	0.0400	-10.8	50.0
Toluene	Ave	1.643	1.560	0.4000	0.0190	0.0200	-5.1	20.0
trans-1,3-Dichloropropene	Ave	0.5224	0.4504	0.1000	0.0172	0.0200	-13.8	20.0
Ethyl methacrylate	Ave	0.4095	0.3468		0.0169	0.0200	-15.3	20.0
1,1,2-Trichloroethane	Ave	0.2836	0.2761	0.1000	0.0195	0.0200	-2.7	20.0
Tetrachloroethene	Ave	0.2624	0.2661	0.1500	0.0203	0.0200	1.4	20.0
1,3-Dichloropropane	Ave	0.5549	0.5213		0.0188	0.0200	-6.0	20.0
2-Hexanone	Ave	0.1911	0.1648	0.0500	0.0345	0.0400	-13.8	50.0
Dibromochloromethane	Ave	0.2723	0.2564		0.0188	0.0200	-5.8	20.0
1,2-Dibromoethane	Ave	0.2788	0.2691		0.0193	0.0200	-3.5	20.0
Chlorobenzene	Ave	0.9885	0.9603	0.3000	0.0194	0.0200	-2.9	20.0
1,1,1,2-Tetrachloroethane	Lin1		0.2944		0.0163	0.0200	-18.7	20.0
Ethylbenzene	Ave	0.5781	0.5416		0.0187	0.0200	-6.3	20.0
m-Xylene & p-Xylene	Ave	0.6835	0.6554		0.0192	0.0200	-4.1	20.0
o-Xylene	Ave	0.6707	0.6247		0.0186	0.0200	-6.9	20.0
Styrene	Lin1		1.046	0.3000	0.0165	0.0200	-17.4	20.0
Bromoform	Lin1		0.1420	0.1000	0.0164	0.0200	-17.9	20.0
Isopropylbenzene	Ave	1.706	1.619	0.1000	0.0190	0.0200	-5.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7569	0.7029	0.3000	0.0186	0.0200	-7.1	20.0
Bromobenzene	Ave	0.7427	0.6971		0.0188	0.0200	-6.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2554	0.2091		0.0164	0.0200	-18.1	20.0
1,2,3-Trichloropropane	Ave	0.2422	0.2240		0.0185	0.0200	-7.5	20.0
n-Propylbenzene	Ave	1.003	0.9250		0.0184	0.0200	-7.8	20.0
2-Chlorotoluene	Ave	0.8082	0.7479		0.0185	0.0200	-7.5	20.0
1,3,5-Trimethylbenzene	Ave	2.979	2.716		0.0182	0.0200	-8.8	20.0
4-Chlorotoluene	Ave	0.8455	0.7888		0.0187	0.0200	-6.7	20.0
tert-Butylbenzene	Ave	2.493	2.278		0.0183	0.0200	-8.6	20.0
1,2,4-Trimethylbenzene	Ave	2.962	2.720		0.0184	0.0200	-8.2	20.0
sec-Butylbenzene	Ave	3.847	3.596		0.0187	0.0200	-6.5	20.0
1,3-Dichlorobenzene	Ave	1.495	1.390	0.6000	0.0186	0.0200	-7.0	20.0
p-Isopropyltoluene	Ave	3.235	2.980		0.0184	0.0200	-7.9	20.0
1,4-Dichlorobenzene	Ave	1.499	1.407	0.5000	0.0188	0.0200	-6.1	20.0
n-Butylbenzene	Ave	3.004	2.802		0.0187	0.0200	-6.7	20.0
1,2-Dichlorobenzene	Ave	1.362	1.303	0.4000	0.0191	0.0200	-4.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCVIS 240-425629/3 Calibration Date: 03/06/2020 10:52

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 16:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 19:45

Lab File ID: UXM27176.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	0.1219	0.1015	0.0500	0.0167	0.0200	-16.7	50.0
1,2,4-Trichlorobenzene	Ave	0.7237	0.6400	0.2000	0.0177	0.0200	-11.6	50.0
Hexachlorobutadiene	Ave	0.3183	0.2951		0.0185	0.0200	-7.3	50.0
Naphthalene	Ave	2.161	1.853		0.0171	0.0200	-14.3	50.0
1,2,3-Trichlorobenzene	Ave	0.6486	0.5968		0.0184	0.0200	-8.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2086	0.2079		0.0199	0.0200	-0.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2713	0.2444		0.0180	0.0200	-9.9	20.0
Toluene-d8 (Surr)	Ave	1.312	1.229		0.0187	0.0200	-6.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4527	0.4876		0.0215	0.0200	7.7	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27176.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Mar-2020 10:52:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-003
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub69

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 11:18:51 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 11:18:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.928	0.000	99	1324630	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	88	953888	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	478222	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	275358	20.0	19.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	323693	20.0	18.0	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	1172542	20.0	18.7	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	89	465107	20.0	21.5	
9 Dichlorodifluoromethane	85	1.754	1.754	0.000	99	417786	20.0	22.0	
10 Chloromethane	50	1.956	1.956	0.000	99	560236	20.0	19.6	
11 Vinyl chloride	62	2.074	2.074	0.000	97	616720	20.0	21.3	
12 Butadiene	54	2.122	2.122	0.000	91	506377	20.0	21.9	
13 Bromomethane	94	2.418	2.418	0.000	90	260847	20.0	14.0	
14 Chloroethane	64	2.537	2.537	0.000	99	321368	20.0	21.2	
15 Dichlorofluoromethane	67	2.774	2.774	0.000	97	613479	20.0	20.3	
16 Trichlorofluoromethane	101	2.810	2.810	0.000	98	513340	20.0	21.5	
17 Ethyl ether	59	3.082	3.082	0.000	91	257969	20.0	19.4	
18 Acrolein	56	3.225	3.225	0.000	99	215270	100.0	82.2	
19 1,1-Dichloroethene	96	3.320	3.320	0.000	98	307134	20.0	21.0	
20 1,1,2-Trichloro-1,2,2-trif	151	3.331	3.331	0.000	94	233846	20.0	24.3	
21 Acetone	58	3.355	3.355	0.000	100	55289	40.0	40.5	
23 Iodomethane	142	3.474	3.474	0.000	97	200952	20.0	12.1	
24 Carbon disulfide	76	3.533	3.533	0.000	99	1055381	20.0	20.7	
27 Methyl acetate	43	3.652	3.652	0.000	97	427787	40.0	36.9	
26 3-Chloro-1-propene	41	3.675	3.675	0.000	91	490925	20.0	19.0	
28 Methylene Chloride	84	3.794	3.794	0.000	92	351889	20.0	19.9	
29 2-Methyl-2-propanol	59	3.877	3.877	0.000	96	203300	200.0	142.0	
30 Acrylonitrile	53	4.007	4.007	0.000	100	1288766	200.0	196.4	
31 Methyl tert-butyl ether	73	4.031	4.031	0.000	95	822920	20.0	17.3	
32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	99	362816	20.0	20.4	
33 Hexane	57	4.280	4.280	0.000	90	562381	20.0	23.1	
35 Vinyl acetate	43	4.422	4.422	0.000	97	500775	20.0	18.3	

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	4.434	4.434	0.000	96	615013	20.0	19.8	
40 2-Butanone (MEK)	72	4.921	4.921	0.000	99	66184	40.0	36.4	
39 cis-1,2-Dichloroethene	96	4.932	4.932	0.000	81	382564	20.0	20.3	
41 2,2-Dichloropropane	77	4.944	4.944	0.000	90	480390	20.0	18.1	
45 Chlorobromomethane	128	5.146	5.146	0.000	97	156062	20.0	21.3	
46 Tetrahydrofuran	42	5.146	5.146	0.000	86	162833	40.0	35.3	
47 Chloroform	83	5.229	5.229	0.000	94	568607	20.0	19.9	
48 1,1,1-Trichloroethane	97	5.371	5.371	0.000	99	472025	20.0	19.2	
49 Cyclohexane	56	5.430	5.430	0.000	89	631683	20.0	22.3	
51 Carbon tetrachloride	117	5.513	5.513	0.000	83	398635	20.0	19.8	
50 1,1-Dichloropropene	75	5.513	5.513	0.000	96	490390	20.0	19.7	
52 Isobutyl alcohol	41	5.561	5.561	0.000	94	193431	500.0	443.9	
54 Benzene	78	5.679	5.679	0.000	96	1474044	20.0	20.1	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	97	427878	20.0	19.0	
56 n-Heptane	57	5.905	5.905	0.000	93	329596	20.0	22.0	
58 Trichloroethene	130	6.249	6.249	0.000	98	338462	20.0	20.5	
60 Methylcyclohexane	83	6.450	6.450	0.000	90	664581	20.0	22.1	
61 1,2-Dichloropropane	63	6.474	6.474	0.000	95	337795	20.0	19.8	
64 1,4-Dioxane	88	6.521	6.521	0.000	93	73222	400.0	372.2	
63 Dibromomethane	93	6.545	6.545	0.000	95	179734	20.0	20.1	
65 Dichlorobromomethane	83	6.699	6.699	0.000	99	383130	20.0	19.1	
67 2-Chloroethyl vinyl ether	63	6.925	6.925	0.000	92	381176	40.0	34.6	
68 cis-1,3-Dichloropropene	75	7.079	7.079	0.000	95	498303	20.0	18.9	
69 4-Methyl-2-pentanone (MIBK	43	7.197	7.197	0.000	96	447104	40.0	35.7	
70 Toluene	91	7.375	7.375	0.000	98	1487926	20.0	19.0	
71 trans-1,3-Dichloropropene	75	7.577	7.577	0.000	94	429587	20.0	17.2	
72 Ethyl methacrylate	69	7.612	7.612	0.000	89	330833	20.0	16.9	
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	91	263376	20.0	19.5	
75 Tetrachloroethene	164	7.850	7.850	0.000	96	253871	20.0	20.3	
74 1,3-Dichloropropane	76	7.909	7.909	0.000	89	497303	20.0	18.8	
76 2-Hexanone	43	7.944	7.944	0.000	95	314297	40.0	34.5	
78 Chlorodibromomethane	129	8.110	8.110	0.000	90	244539	20.0	18.8	
80 Ethylene Dibromide	107	8.241	8.241	0.000	99	256708	20.0	19.3	
82 Chlorobenzene	112	8.692	8.692	0.000	99	916020	20.0	19.4	
83 1,1,1,2-Tetrachloroethane	131	8.763	8.763	0.000	94	280774	20.0	16.3	
84 Ethylbenzene	106	8.775	8.775	0.000	98	516667	20.0	18.7	
85 m-Xylene & p-Xylene	106	8.893	8.893	0.000	97	625153	20.0	19.2	
86 o-Xylene	106	9.261	9.261	0.000	97	595905	20.0	18.6	
87 Styrene	104	9.284	9.284	0.000	95	998156	20.0	16.5	
88 Bromoform	173	9.462	9.462	0.000	94	135432	20.0	16.4	
89 Isopropylbenzene	105	9.616	9.616	0.000	95	1544550	20.0	19.0	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	94	336126	20.0	18.6	
93 Bromobenzene	156	9.937	9.937	0.000	96	333360	20.0	18.8	
94 trans-1,4-Dichloro-2-buten	53	9.949	9.949	0.000	88	100003	20.0	16.4	
95 1,2,3-Trichloropropane	110	9.972	9.972	0.000	83	107124	20.0	18.5	
96 N-Propylbenzene	120	10.020	10.020	0.000	99	442370	20.0	18.4	
97 2-Chlorotoluene	126	10.115	10.115	0.000	96	357653	20.0	18.5	
99 1,3,5-Trimethylbenzene	105	10.198	10.198	0.000	94	1299050	20.0	18.2	
100 4-Chlorotoluene	126	10.233	10.233	0.000	97	377219	20.0	18.7	
102 tert-Butylbenzene	119	10.506	10.506	0.000	93	1089356	20.0	18.3	
104 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	97	1300807	20.0	18.4	
105 sec-Butylbenzene	105	10.731	10.731	0.000	94	1719852	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
106 1,3-Dichlorobenzene	146	10.862	10.862	0.000	98	664606	20.0	18.6	
107 4-Isopropyltoluene	119	10.885	10.885	0.000	97	1424929	20.0	18.4	
108 1,4-Dichlorobenzene	146	10.956	10.956	0.000	93	672948	20.0	18.8	
111 n-Butylbenzene	91	11.289	11.289	0.000	98	1340087	20.0	18.7	
112 1,2-Dichlorobenzene	146	11.324	11.324	0.000	97	623055	20.0	19.1	
113 1,2-Dibromo-3-Chloropropan	157	12.107	12.107	0.000	79	48534	20.0	16.7	
115 1,2,4-Trichlorobenzene	180	12.937	12.937	0.000	94	306050	20.0	17.7	
116 Hexachlorobutadiene	225	13.091	13.091	0.000	97	141121	20.0	18.5	
117 Naphthalene	128	13.233	13.233	0.000	97	886019	20.0	17.1	
118 1,2,3-Trichlorobenzene	180	13.482	13.482	0.000	95	285407	20.0	18.4	
S 158 Total BTEX	1				0		100.0	95.6	
S 134 Trihalomethanes, Total	1				0		80.0	74.3	
S 133 Xylenes, Total	106				0		40.0	37.8	

Reagents:

vmrprimw_00376	Amount Added:	16.00	Units: uL	
vmrgas_00329	Amount Added:	16.00	Units: uL	
vmarolistdw_00335	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

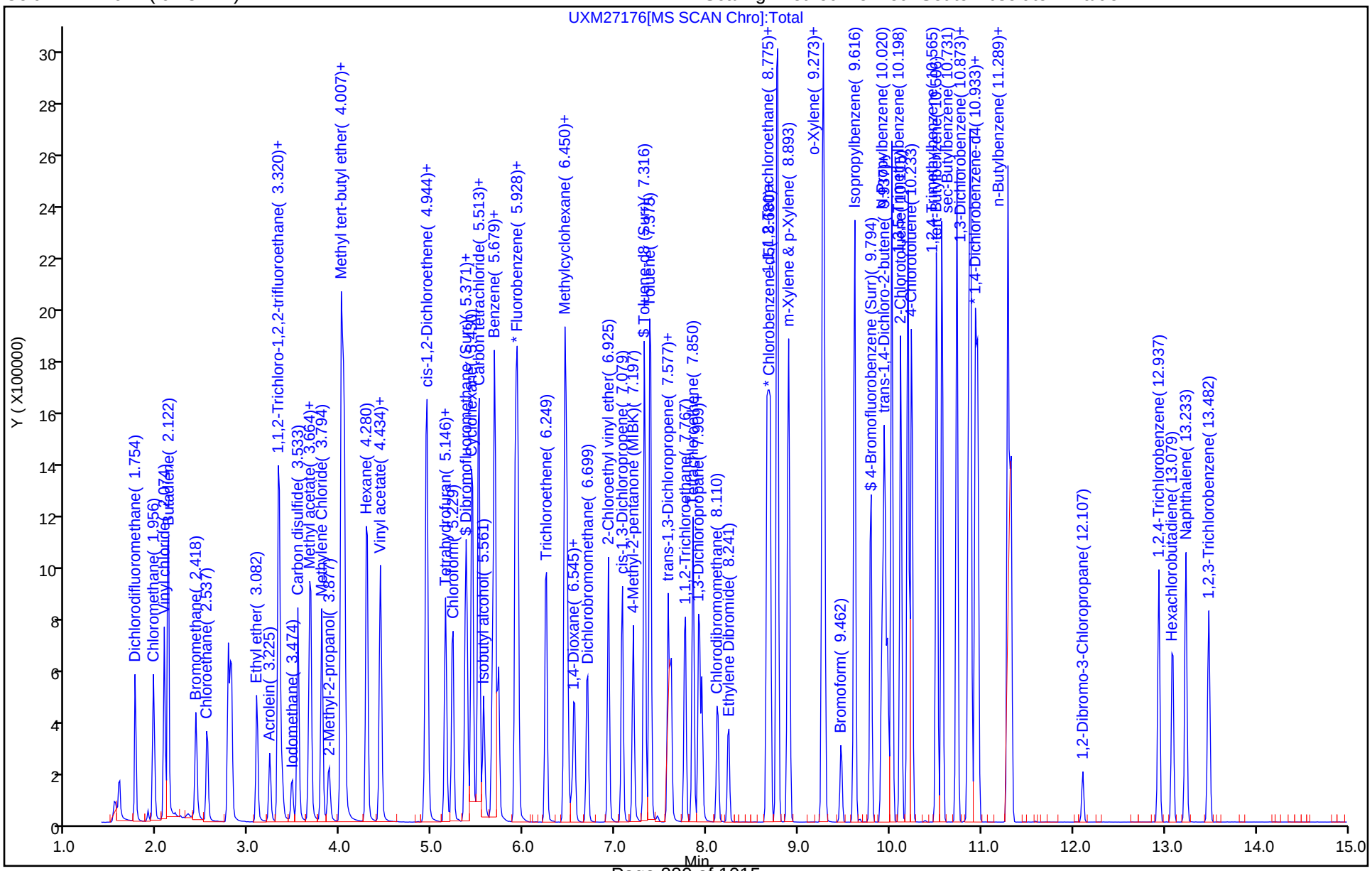
Report Date: 06-Mar-2020 11:18:53 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27176.D

Injection Date:	06-Mar-2020 10:52:30	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.: 240-127107-1

SDG No.:

Lab Sample ID: CCV 240-425629/4 Calibration Date: 03/06/2020 11:17

Instrument ID: A3UX16 Calib Start Date: 02/07/2020 21:24

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/07/2020 23:28

Lab File ID: UXM27177.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	0.0355	0.0383		0.216	0.200	7.9	20.0
Diisopropyl ether	Ave	0.2073	0.2167		0.0209	0.0200	4.5	20.0
2-Chloro-1,3-butadiene	Ave	0.3800	0.3934		0.0207	0.0200	3.5	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7002	0.6671		0.0191	0.0200	-4.7	20.0
Ethyl acetate	Ave	0.2229	0.2106		0.0378	0.0400	-5.6	20.0
Propionitrile	Ave	0.0383	0.0417		0.218	0.200	9.1	20.0
Methacrylonitrile	Ave	0.1613	0.1634		0.203	0.200	1.3	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.6703	0.5941		0.0177	0.0200	-11.4	20.0
n-Butanol	Ave	0.0060	0.0048		0.400	0.500	-19.9	20.0
Ethyl acrylate	Ave	0.2711	0.2569		0.0190	0.0200	-5.2	20.0
Methyl methacrylate	Ave	0.1945	0.1933		0.0397	0.0400	-0.6	20.0
2-Nitropropane	Ave	0.0638	0.0552		0.0346	0.0400	-13.6	20.0
n-Butyl acetate	Ave	0.3053	0.2567		0.0168	0.0200	-15.9	20.0
1-Chlorohexane	Ave	0.5180	0.5143		0.0199	0.0200	-0.7	20.0
Cyclohexanone	Ave	0.0232	0.0163		0.141	0.200	-29.7*	20.0
Pentachloroethane	Ave	0.0922	0.1545		0.0670	0.0400	67.4*	20.0
1,2,3-Trimethylbenzene	Ave	2.840	2.992		0.0211	0.0200	5.4	20.0
Benzyl chloride	Ave	0.2499	0.2564		0.0205	0.0200	2.6	20.0
1,3,5-Trichlorobenzene	Ave	0.8652	0.9291		0.0215	0.0200	7.4	20.0
2-Methylnaphthalene	Ave	1.041	0.8011		0.0308	0.0400	-23.0*	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27177.D
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 06-Mar-2020 11:17:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-004
Operator ID: 001765 Instrument ID: A3UX16
Sublist: chrom-8260_16*sub78

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 11:37:45 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 11:37:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.928	0.000	99	1228981	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	88	931151	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	421546	20.0	20.0	
25 Acetonitrile	41	3.628	3.628	0.000	99	470930	200.0	215.7	
36 Isopropyl ether	87	4.458	4.458	0.000	93	266305	20.0	20.9	
37 2-Chloro-1,3-butadiene	53	4.505	4.505	0.000	91	483484	20.0	20.7	
38 Tert-butyl ethyl ether	59	4.766	4.766	0.000	96	819842	20.0	19.1	
43 Ethyl acetate	43	4.944	4.944	0.000	99	517519	40.0	37.8	
42 Propionitrile	54	4.980	4.980	0.000	99	512828	200.0	218.1	
44 Methacrylonitrile	41	5.110	5.110	0.000	91	2008307	200.0	202.6	
163 Isooctane	57	5.774	5.774	0.000	97	1119367	20.0	24.8	
55 Tert-amyl methyl ether	73	5.774	5.774	0.000	96	730180	20.0	17.7	
57 n-Butanol	56	6.130	6.130	0.000	88	148777	500.0	400.3	
59 Ethyl acrylate	55	6.296	6.296	0.000	99	315748	20.0	19.0	
62 Methyl methacrylate	41	6.498	6.498	0.000	89	475032	40.0	39.7	
66 2-Nitropropane	41	6.889	6.889	0.000	99	135667	40.0	34.6	
77 n-Butyl acetate	43	8.039	8.039	0.000	95	315428	20.0	16.8	
81 1-Chlorohexane	91	8.656	8.656	0.000	96	478925	20.0	19.9	
91 Cyclohexanone	55	9.723	9.723	0.000	91	68719	200.0	140.6	
103 Pentachloroethane	167	10.553	10.553	0.000	95	287643	40.0	67.0	
109 1,2,3-Trimethylbenzene	105	10.980	10.980	0.000	98	1261317	20.0	21.1	
110 Benzyl chloride	126	11.075	11.075	0.000	99	108082	20.0	20.5	
114 1,3,5-Trichlorobenzene	180	12.296	12.296	0.000	97	391662	20.0	21.5	
119 2-Methylnaphthalene	142	14.692	14.692	0.000	93	675416	40.0	30.8	
162 1-Methylnaphthalene	142	14.965	14.965	0.000	0	659717	40.0	34.5	

Reagents:

vmra9w_00335	Amount Added:	16.00	Units: uL
vm100is_stk_A_00004	Amount Added:	1.00	Units: uL

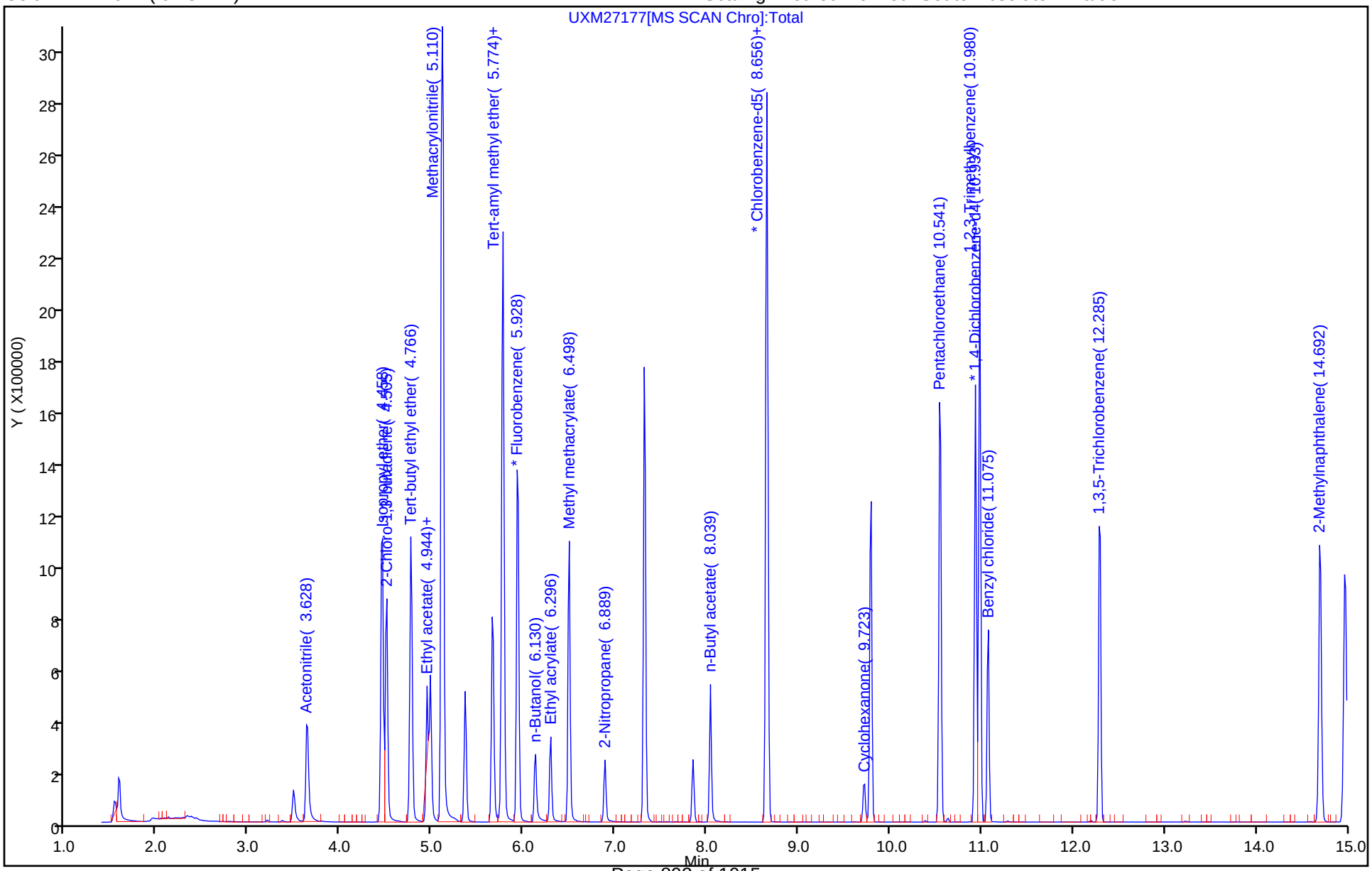
Report Date: 06-Mar-2020 11:37:45 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27177.D

Injection Date:	06-Mar-2020 11:17:30	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.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-337917/14 Calibration Date: 07/25/2018 15:37

Instrument ID: A3UX19 Calib Start Date: 07/24/2018 17:50

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/24/2018 20:04

Lab File ID: U1900808.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	0.2589	0.2758		0.0213	0.0200	6.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2744	0.2888		0.0211	0.0200	5.3	30.0
Toluene-d8 (Surr)	Ave	1.204	1.258		0.0209	0.0200	4.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4627	0.4749		0.0205	0.0200	2.6	30.0

Report Date: 25-Jul-2018 16:30:33 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\U1900808.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 25-Jul-2018 15:37:29 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078311-014
Operator ID: 001904 Instrument ID: A3UX19
Sublist:

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

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	882991	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	82	707956	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	83	413254	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	84	243481	20.0	21.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.345	5.357	-0.012	96	255028	20.0	21.1	
$ 6 Toluene-d8 (Surr)	98	7.100	7.100	0.000	93	890649	20.0	20.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	90	336222	20.0	20.5	
25 Acetonitrile	41	3.329	3.329	0.000	100	288916	200.0	164.3	
36 Isopropyl ether	87	4.171	4.171	0.000	94	210236	20.0	20.6	
37 2-Chloro-1,3-butadiene	53	4.195	4.195	0.000	86	354575	20.0	20.2	
38 Tert-butyl ethyl ether	59	4.492	4.491	0.001	97	657887	20.0	20.5	
42 Ethyl acetate	43	4.681	4.681	0.000	96	486199	40.0	36.6	
43 Propionitrile	54	4.681	4.681	0.000	59	348995	200.0	193.9	
44 Methacrylonitrile	41	4.824	4.823	0.001	91	1700375	200.0	210.7	
55 Tert-amyl methyl ether	73	5.500	5.499	0.001	91	691178	20.0	20.3	
57 n-Butanol	56	5.891	5.891	0.000	85	188747	500.0	456.8	
59 Ethyl acrylate	55	6.057	6.057	0.000	99	329918	20.0	20.2	
62 Methyl methacrylate	41	6.270	6.270	0.000	91	440657	40.0	40.6	
66 2-Nitropropane	41	6.638	6.638	0.000	98	128315	40.0	40.0	
78 n-Butyl acetate	43	7.883	7.883	0.000	99	386791	20.0	20.4	
81 1-Chlorohexane	91	8.488	8.488	0.000	74	315130	20.0	19.3	
90 Cyclohexanone	55	9.615	9.614	0.000	91	97723	200.0	202.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 Pentachloroethane	167	10.492	10.492	0.000	86	279031	40.0	39.0	
106 1,2,3-Trimethylbenzene	105	10.966	10.966	0.000	86	994788	20.0	21.2	
107 Benzyl chloride	91	11.049	11.049	0.000	97	499238	20.0	18.8	
111 1,3,5-Trichlorobenzene	180	12.354	12.354	0.000	97	414514	20.0	19.6	
116 2-Methylnaphthalene	142	14.619	14.619	0.000	89	1147583	40.0	38.8	

Reagents:

VMFASA9W_00194	Amount Added: 16.00	Units: uL	
vm50ss_stk_00077	Amount Added: 2.00	Units: uL	Run Reagent
vmDist_H2o_00121	Amount Added: 0.00	Units:	Run Reagent
vm50is_stk_A_00001	Amount Added: 2.00	Units: uL	Run Reagent

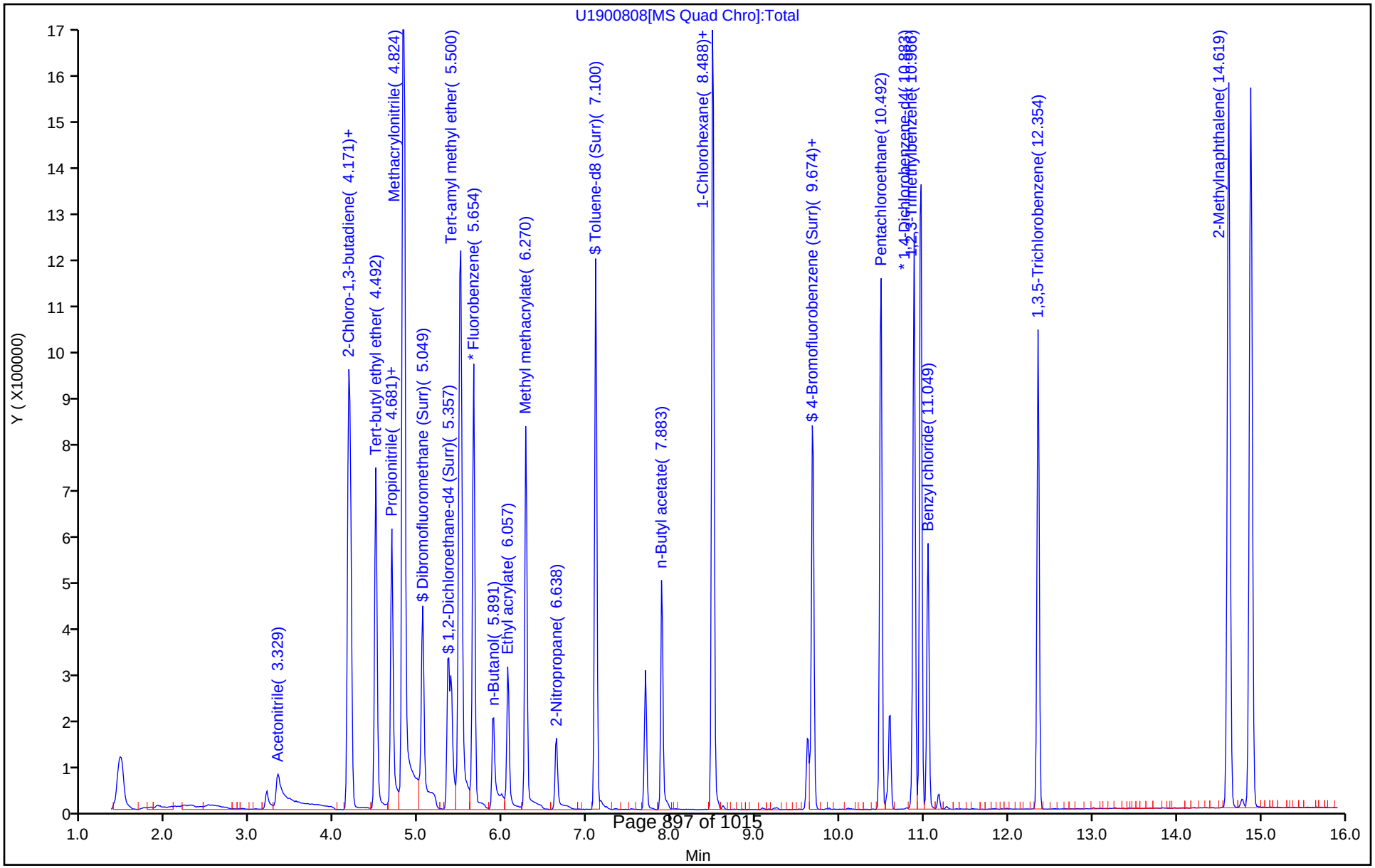
Report Date: 25-Jul-2018 16:30:33 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900808.d

Injection Date:	25-Jul-2018 15:37:29	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.: 240-127107-1

SDG No.:

Lab Sample ID: ICV 240-337917/14 Calibration Date: 07/25/2018 15:37

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: U1900808.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		0.0327		0.164	0.200	-17.8	30.0
Diisopropyl ether	Ave	0.2313	0.2381		0.0206	0.0200	3.0	30.0
2-Chloro-1,3-butadiene	Ave	0.3979	0.4016		0.0202	0.0200	0.9	30.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7258	0.7451		0.0205	0.0200	2.7	30.0
Ethyl acetate	Ave	0.3007	0.2753		0.0366	0.0400	-8.5	30.0
Propionitrile	Ave	0.0408	0.0395		0.194	0.200	-3.0	30.0
Methacrylonitrile	Ave	0.1828	0.1926		0.211	0.200	5.3	30.0
Tert-amyl-methyl ether (TAME)	Ave	0.7700	0.7828		0.0203	0.0200	1.7	30.0
n-Butanol	Ave	0.0094	0.0086		0.457	0.500	-8.6	30.0
Ethyl acrylate	Ave	0.3703	0.3736		0.0202	0.0200	0.9	30.0
Methyl methacrylate	Ave	0.2459	0.2495		0.0406	0.0400	1.5	30.0
2-Nitropropane	Ave	0.0726	0.0727		0.0400	0.0400	0.1	30.0
n-Butyl acetate	Ave	0.5364	0.5464		0.0204	0.0200	1.9	30.0
1-Chlorohexane	Ave	0.4610	0.4451		0.0193	0.0200	-3.4	30.0
Cyclohexanone	Ave	0.0137	0.0138		0.202	0.200	1.0	30.0
Pentachloroethane	Ave	0.3462	0.3376		0.0390	0.0400	-2.5	30.0
1,2,3-Trimethylbenzene	Ave	2.276	2.407		0.0212	0.0200	5.8	30.0
Benzyl chloride	Ave	1.286	1.208		0.0188	0.0200	-6.1	30.0
1,3,5-Trichlorobenzene	Ave	1.021	1.003		0.0196	0.0200	-1.8	30.0
2-Methylnaphthalene	Ave	1.433	1.388		0.0388	0.0400	-3.1	30.0

TestAmerica Canton

Target Compound Quantitation Report

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900808.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 25-Jul-2018 15:37:29 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0078311-014
Operator ID: 001904 Instrument ID: A3UX19
Sublist:

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

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	882991	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	82	707956	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	83	413254	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	84	243481	20.0	21.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.345	5.357	-0.012	96	255028	20.0	21.1	
$ 6 Toluene-d8 (Surr)	98	7.100	7.100	0.000	93	890649	20.0	20.9	
$ 7 4-Bromofluorobenzene (Surr	95	9.674	9.674	0.000	90	336222	20.0	20.5	
25 Acetonitrile	41	3.329	3.329	0.000	100	288916	200.0	164.3	
36 Isopropyl ether	87	4.171	4.171	0.000	94	210236	20.0	20.6	
37 2-Chloro-1,3-butadiene	53	4.195	4.195	0.000	86	354575	20.0	20.2	
38 Tert-butyl ethyl ether	59	4.492	4.491	0.001	97	657887	20.0	20.5	
42 Ethyl acetate	43	4.681	4.681	0.000	96	486199	40.0	36.6	
43 Propionitrile	54	4.681	4.681	0.000	59	348995	200.0	193.9	
44 Methacrylonitrile	41	4.824	4.823	0.001	91	1700375	200.0	210.7	
55 Tert-amyl methyl ether	73	5.500	5.499	0.001	91	691178	20.0	20.3	
57 n-Butanol	56	5.891	5.891	0.000	85	188747	500.0	456.8	
59 Ethyl acrylate	55	6.057	6.057	0.000	99	329918	20.0	20.2	
62 Methyl methacrylate	41	6.270	6.270	0.000	91	440657	40.0	40.6	
66 2-Nitropropane	41	6.638	6.638	0.000	98	128315	40.0	40.0	
78 n-Butyl acetate	43	7.883	7.883	0.000	99	386791	20.0	20.4	
81 1-Chlorohexane	91	8.488	8.488	0.000	74	315130	20.0	19.3	
90 Cyclohexanone	55	9.615	9.614	0.000	91	97723	200.0	202.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 Pentachloroethane	167	10.492	10.492	0.000	86	279031	40.0	39.0	
106 1,2,3-Trimethylbenzene	105	10.966	10.966	0.000	86	994788	20.0	21.2	
107 Benzyl chloride	91	11.049	11.049	0.000	97	499238	20.0	18.8	
111 1,3,5-Trichlorobenzene	180	12.354	12.354	0.000	97	414514	20.0	19.6	
116 2-Methylnaphthalene	142	14.619	14.619	0.000	89	1147583	40.0	38.8	

Reagents:

VMFASA9W_00194	Amount Added: 16.00	Units: uL	
vm50ss_stk_00077	Amount Added: 2.00	Units: uL	Run Reagent
vmDist_H2o_00121	Amount Added: 0.00	Units:	Run Reagent
vm50is_stk_A_00001	Amount Added: 2.00	Units: uL	Run Reagent

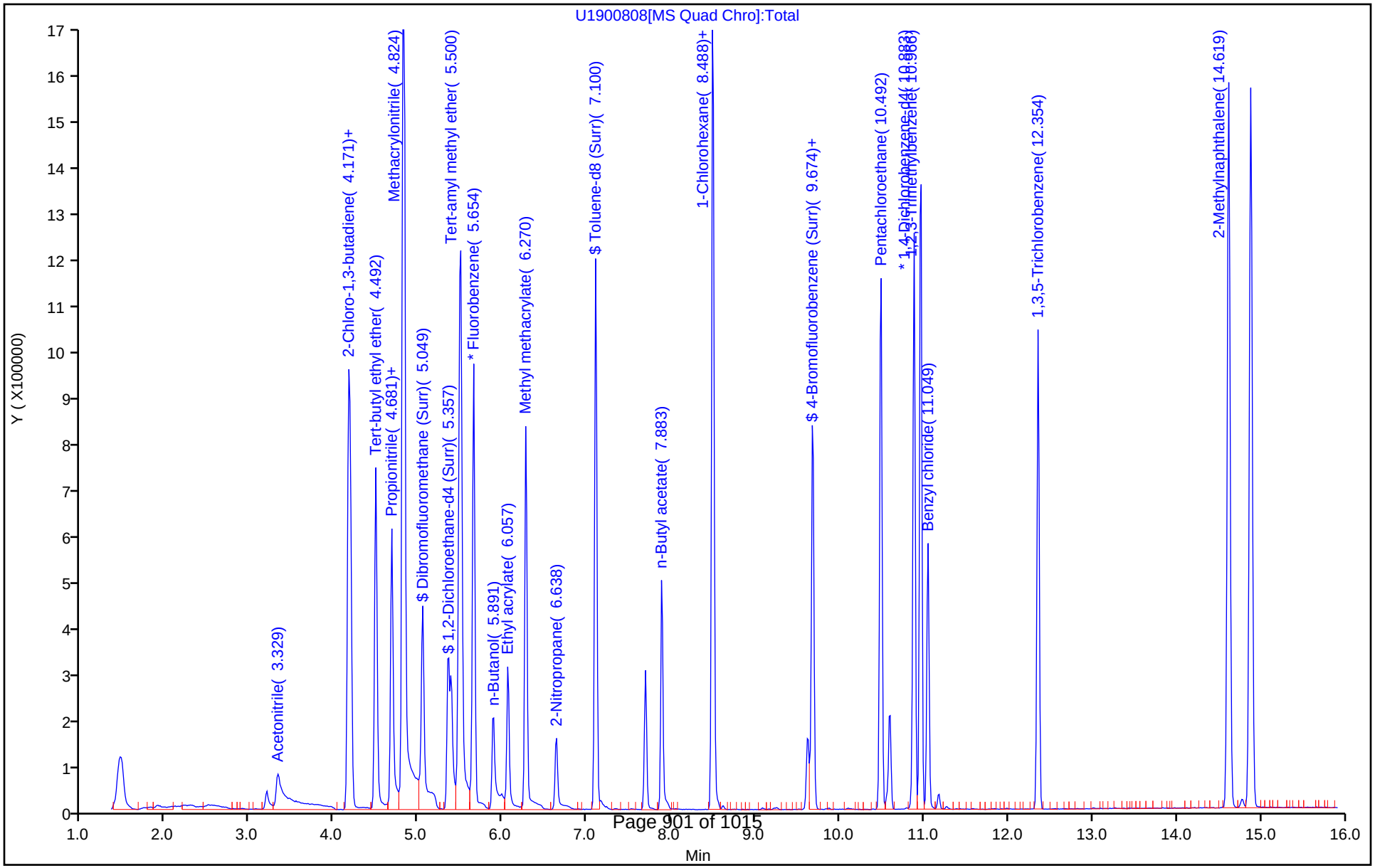
Report Date: 25-Jul-2018 16:30:33 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180725-78311.b\U1900808.d

Injection Date:	25-Jul-2018 15:37:29	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.: 240-127107-1

SDG No.:

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	0.4762		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	0.3611		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	0.1020		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	0.3554	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.: 240-127107-1

SDG No.:

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	0.3495	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	0.4447	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	0.3632		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	0.4959		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.: 240-127107-1

SDG No.:

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	0.2412	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	0.2770		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

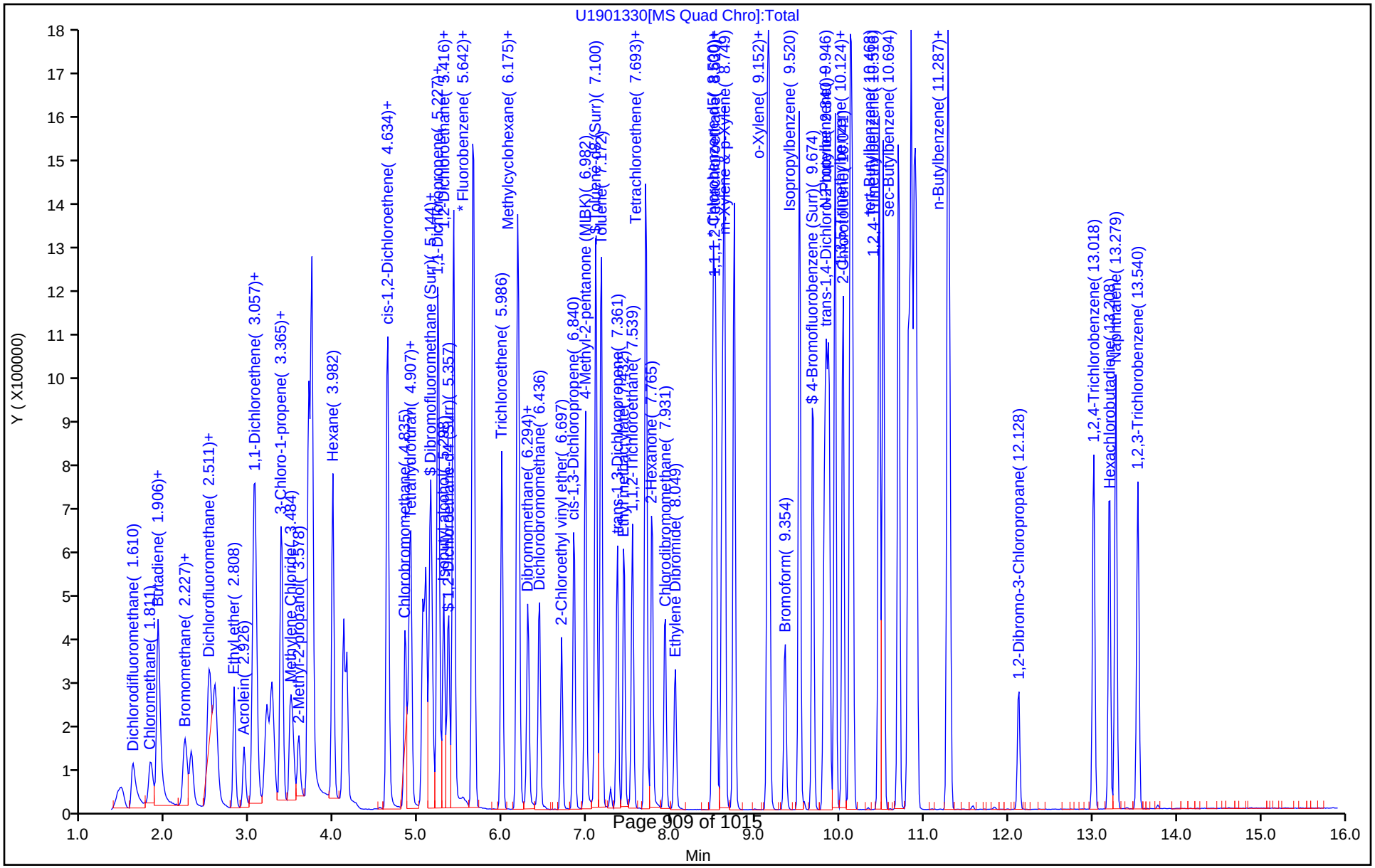
Report Date: 27-Aug-2018 21:12:28 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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.: 240-127107-1

SDG No.:

Lab Sample ID: CCV 240-425546/3 Calibration Date: 03/05/2020 18:31

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: U1913206.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		0.0308		0.155	0.200	-22.7*	20.0
Diisopropyl ether	Ave	0.2313	0.2003		0.0173	0.0200	-13.4	20.0
2-Chloro-1,3-butadiene	Ave	0.3979	0.3338		0.0168	0.0200	-16.1	20.0
Ethyl-t-butyl ether (ETBE)	Ave	0.7258	0.5208		0.0144	0.0200	-28.2*	20.0
Propionitrile	Ave	0.0408	0.0474		0.233	0.200	16.3	20.0
Ethyl acetate	Ave	0.3007	0.2466		0.0328	0.0400	-18.0	20.0
Methacrylonitrile	Ave	0.1828	0.1541		0.169	0.200	-15.7	20.0
Tert-amyl-methyl ether (TAME)	Ave	0.7700	0.5758		0.0150	0.0200	-25.2*	20.0
n-Butanol	Ave	0.0094	0.0115		0.613	0.500	22.6*	20.0
Ethyl acrylate	Ave	0.3703	0.3165		0.0171	0.0200	-14.5	20.0
Methyl methacrylate	Ave	0.2459	0.1917		0.0312	0.0400	-22.0*	20.0
2-Nitropropane	Ave	0.0726	0.0758		0.0418	0.0400	4.5	20.0
n-Butyl acetate	Ave	0.5364	0.3944		0.0147	0.0200	-26.5*	20.0
1-Chlorohexane	Ave	0.4610	0.3896		0.0169	0.0200	-15.5	20.0
Cyclohexanone	Ave	0.0137	0.0123		0.180	0.200	-10.0	20.0
Pentachloroethane	Ave	0.3462	0.3997		0.0462	0.0400	15.4	20.0
1,2,3-Trimethylbenzene	Ave	2.276	2.166		0.0190	0.0200	-4.8	20.0
Benzyl chloride	Ave	1.286	1.410		0.0219	0.0200	9.6	20.0
1,3,5-Trichlorobenzene	Ave	1.021	0.7456		0.0146	0.0200	-27.0*	20.0
2-Methylnaphthalene	Ave	1.433	0.6306		0.0176	0.0400	-56.0*	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913206.d
Lims ID: CCV A9
Client ID:
Sample Type: CCV
Inject. Date: 05-Mar-2020 18:31:05 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-003
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub13

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Mar-2020 18:52:14 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: laveyt Date: 05-Mar-2020 18:52:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.666	5.666	0.000	100	1216944	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	972656	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	94	497769	20.0	20.0	
26 Acetonitrile	41	3.341	3.341	0.000	98	374335	200.0	154.6	
37 Isopropyl ether	87	4.183	4.183	0.000	90	243702	20.0	17.3	
38 2-Chloro-1,3-butadiene	53	4.207	4.207	0.000	90	406162	20.0	16.8	
39 Tert-butyl ethyl ether	59	4.503	4.503	0.000	95	633813	20.0	14.4	
43 Propionitrile	54	4.681	4.681	0.000	86	576813	200.0	232.6	
44 Ethyl acetate	43	4.693	4.693	0.000	98	600190	40.0	32.8	
45 Methacrylonitrile	41	4.824	4.824	0.000	87	1874956	200.0	168.5	
56 Tert-amyl methyl ether	73	5.511	5.511	0.000	97	700767	20.0	15.0	
58 n-Butanol	56	5.891	5.891	0.000	84	348974	500.0	612.8	
60 Ethyl acrylate	55	6.069	6.069	0.000	98	385122	20.0	17.1	
63 Methyl methacrylate	41	6.282	6.282	0.000	82	466562	40.0	31.2	
67 2-Nitropropane	41	6.638	6.638	0.000	99	184572	40.0	41.8	
78 n-Butyl acetate	43	7.895	7.895	0.000	96	383657	20.0	14.7	
82 1-Chlorohexane	91	8.488	8.488	0.000	91	378918	20.0	16.9	
91 Cyclohexanone	55	9.626	9.626	0.000	88	119681	200.0	180.0	
104 Pentachloroethane	167	10.492	10.492	0.000	93	397890	40.0	46.2	
110 1,2,3-Trimethylbenzene	105	10.966	10.966	0.000	98	1078319	20.0	19.0	
111 Benzyl chloride	91	11.049	11.049	0.000	98	701900	20.0	21.9	
115 1,3,5-Trichlorobenzene	180	12.366	12.366	0.000	98	371121	20.0	14.6	
120 2-Methylnaphthalene	142	14.631	14.631	0.000	91	627799	40.0	17.6	

Reagents:

vm50is_stk_A_00006 Amount Added: 2.00 Units: uL
vmra9w_00335 Amount Added: 16.00 Units: uL

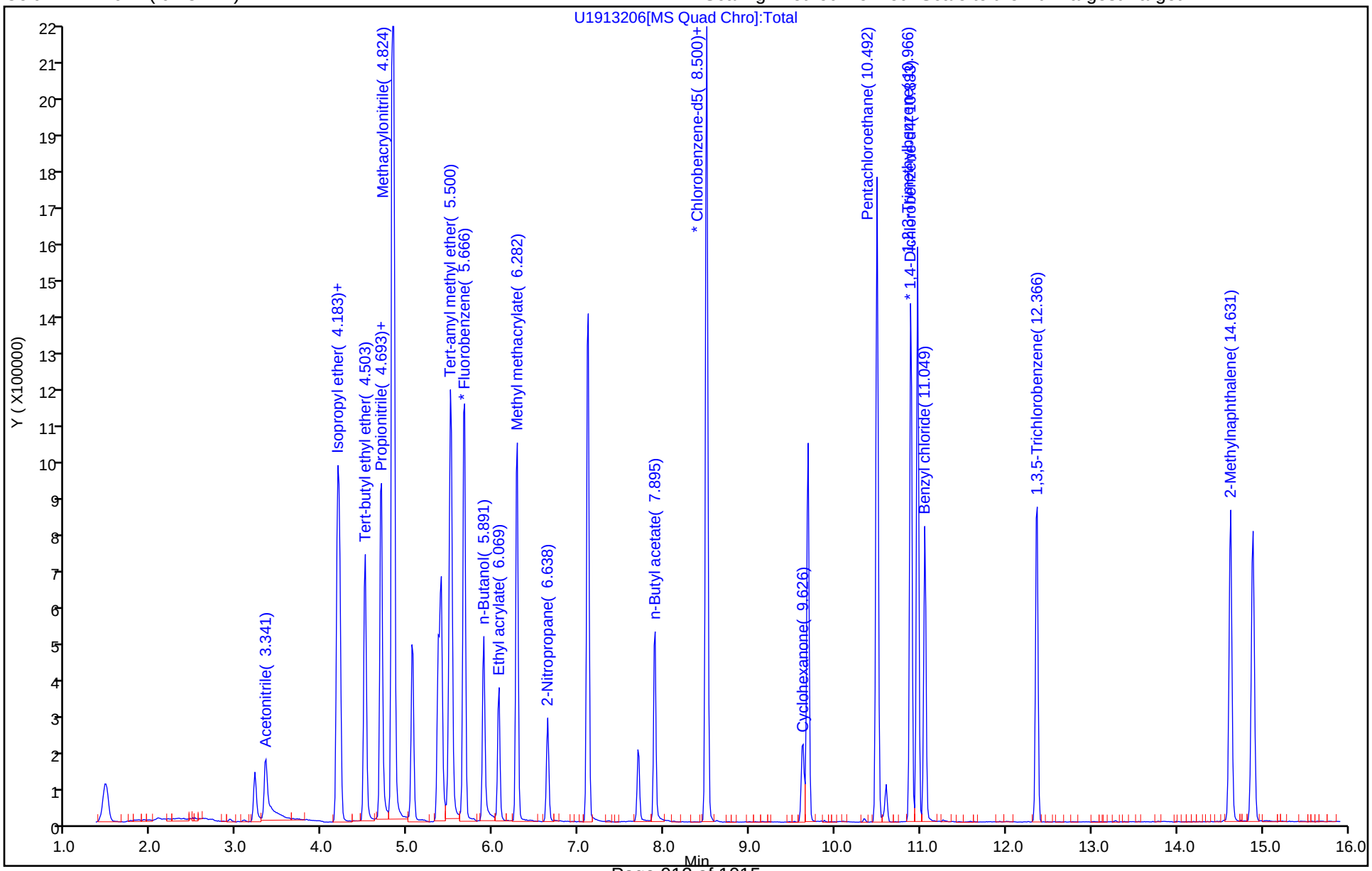
Report Date: 05-Mar-2020 18:52:15 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913206.d

Injection Date:	05-Mar-2020 18:31:05	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.: 240-127107-1

SDG No.:

Lab Sample ID: CCVIS 240-425546/4 Calibration Date: 03/05/2020 18:53

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: U1913207.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	0.3328	0.1000	0.0173	0.0200	-13.6	20.0
Chloromethane	Ave	0.2883	0.2441	0.1000	0.0169	0.0200	-15.3	20.0
Butadiene	Ave	0.2887	0.2191		0.0152	0.0200	-24.1*	20.0
Vinyl chloride	Ave	0.2980	0.2658	0.1000	0.0178	0.0200	-10.8	20.0
Bromomethane	Ave	0.2335	0.2340	0.0500	0.0200	0.0200	0.2	20.0
Chloroethane	Ave	0.1848	0.1866	0.0500	0.0202	0.0200	1.0	20.0
Dichlorofluoromethane	Ave	0.4581	0.4416		0.0193	0.0200	-3.6	20.0
Trichlorofluoromethane	Ave	0.4984	0.4481	0.1000	0.0180	0.0200	-10.1	20.0
Ethyl ether	Ave	0.1800	0.1857		0.0206	0.0200	3.1	20.0
Acrolein	Ave	0.0445	0.0418		0.0941	0.100	-5.9	20.0
1,1-Dichloroethene	Ave	0.3589	0.3431	0.1000	0.0191	0.0200	-4.4	20.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.2567	0.2731	0.0500	0.0213	0.0200	6.4	20.0
Acetone	Ave	0.0784	0.0785	0.0100	0.0400	0.0400	0.1	50.0
Iodomethane	Ave	0.4655	0.4721		0.0203	0.0200	1.4	20.0
Carbon disulfide	Ave	0.7515	0.7399	0.1000	0.0197	0.0200	-1.5	20.0
3-Chloro-1-propene	Ave	0.3541	0.2652		0.0150	0.0200	-25.1*	20.0
Methyl acetate	Ave	0.2328	0.1976	0.1000	0.0340	0.0400	-15.1	50.0
Methylene Chloride	Ave	0.2846	0.2508	0.1000	0.0176	0.0200	-11.9	50.0
tert-Butyl alcohol	Ave	0.0271	0.0246		0.181	0.200	-9.3	20.0
Acrylonitrile	Ave	0.1006	0.1058		0.210	0.200	5.2	20.0
Methyl tert-butyl ether	Ave	0.6938	0.5947	0.1000	0.0171	0.0200	-14.3	20.0
trans-1,2-Dichloroethene	Ave	0.3387	0.3207	0.1000	0.0189	0.0200	-5.3	20.0
Hexane	Ave	0.3524	0.3027		0.0172	0.0200	-14.1	20.0
1,1-Dichloroethane	Ave	0.4048	0.3964	0.2000	0.0196	0.0200	-2.1	20.0
Vinyl acetate	Ave	0.4639	0.3910		0.0169	0.0200	-15.7	20.0
2,2-Dichloropropane	Ave	0.2438	0.2175		0.0178	0.0200	-10.8	20.0
2-Butanone	Ave	0.0472	0.0445	0.0100	0.0377	0.0400	-5.9	50.0
cis-1,2-Dichloroethene	Ave	0.2891	0.2867	0.1000	0.0198	0.0200	-0.8	20.0
Bromochloromethane	Ave	0.1945	0.1677		0.0172	0.0200	-13.8	20.0
Tetrahydrofuran	Lin1		0.0848		0.0323	0.0400	-19.4	20.0
Chloroform	Ave	0.4433	0.4461	0.2000	0.0201	0.0200	0.6	20.0
1,1,1-Trichloroethane	Ave	0.4174	0.3797	0.1000	0.0182	0.0200	-9.0	20.0
Cyclohexane	Ave	0.3819	0.3817	0.1000	0.0200	0.0200	-0.0	20.0
1,1-Dichloropropene	Ave	0.3519	0.3545		0.0201	0.0200	0.7	20.0
Carbon tetrachloride	Ave	0.4023	0.3688	0.1000	0.0183	0.0200	-8.3	20.0
Isobutyl alcohol	Ave	0.0110	0.0101		0.458	0.500	-8.3	20.0
Benzene	Ave	0.9518	0.9589	0.5000	0.0201	0.0200	0.7	20.0
1,2-Dichloroethane	Ave	0.3600	0.3323	0.1000	0.0185	0.0200	-7.7	20.0
n-Heptane	Lin1		0.1493		0.0126	0.0200	-37.1*	20.0
Trichloroethene	Ave	0.3160	0.3037	0.1500	0.0192	0.0200	-3.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCVIS 240-425546/4 Calibration Date: 03/05/2020 18:53

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: U1913207.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	0.4134	0.1000	0.0180	0.0200	-9.9	20.0
1,2-Dichloropropane	Ave	0.2208	0.2008	0.1000	0.0182	0.0200	-9.0	20.0
1,4-Dioxane	Ave	0.0024	0.0037		0.616	0.400	54.0*	50.0
Dibromomethane	Ave	0.2271	0.1875		0.0165	0.0200	-17.4	20.0
Bromodichloromethane	Ave	0.3479	0.3243	0.1500	0.0186	0.0200	-6.8	20.0
2-Chloroethyl vinyl ether	Ave	0.1770	0.1570		0.0355	0.0400	-11.3	20.0
cis-1,3-Dichloropropene	Ave	0.3865	0.3541	0.1500	0.0183	0.0200	-8.4	50.0
4-Methyl-2-pentanone	Ave	0.3203	0.2490	0.0500	0.0311	0.0400	-22.3	50.0
Toluene	Ave	1.352	1.371	0.4000	0.0203	0.0200	1.5	20.0
trans-1,3-Dichloropropene	Ave	0.4818	0.4213	0.1000	0.0175	0.0200	-12.6	20.0
Ethyl methacrylate	Ave	0.4344	0.3919		0.0180	0.0200	-9.8	20.0
1,1,2-Trichloroethane	Ave	0.2842	0.2855	0.1000	0.0201	0.0200	0.5	20.0
1,3-Dichloropropane	Ave	0.4802	0.4766		0.0199	0.0200	-0.7	20.0
Tetrachloroethene	Ave	0.4313	0.3793	0.1500	0.0176	0.0200	-12.1	20.0
2-Hexanone	Ave	0.3149	0.2457	0.0500	0.0312	0.0400	-22.0	50.0
Dibromochloromethane	Ave	0.3583	0.3404		0.0190	0.0200	-5.0	20.0
1,2-Dibromoethane	Ave	0.3346	0.3156		0.0189	0.0200	-5.7	20.0
Chlorobenzene	Ave	0.9253	0.9095	0.3000	0.0197	0.0200	-1.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3336	0.3208		0.0192	0.0200	-3.8	20.0
Ethylbenzene	Ave	0.4836	0.4681		0.0194	0.0200	-3.2	20.0
m-Xylene & p-Xylene	Ave	0.5890	0.5930		0.0201	0.0200	0.7	20.0
o-Xylene	Ave	0.5597	0.5529		0.0198	0.0200	-1.2	20.0
Styrene	Ave	0.9588	0.9480	0.3000	0.0198	0.0200	-1.1	20.0
Bromoform	Ave	0.2933	0.2326	0.1000	0.0159	0.0200	-20.7*	20.0
Isopropylbenzene	Ave	1.503	1.427	0.1000	0.0190	0.0200	-5.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7706	0.8328	0.3000	0.0216	0.0200	8.1	20.0
Bromobenzene	Ave	0.7690	0.7172		0.0187	0.0200	-6.7	20.0
1,2,3-Trichloropropane	Ave	0.2921	0.2989		0.0205	0.0200	2.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2737	0.2396		0.0175	0.0200	-12.4	20.0
n-Propylbenzene	Ave	0.7729	0.8123		0.0210	0.0200	5.1	20.0
2-Chlorotoluene	Ave	0.6541	0.6814		0.0208	0.0200	4.2	20.0
1,3,5-Trimethylbenzene	Ave	2.225	2.266		0.0204	0.0200	1.8	20.0
4-Chlorotoluene	Ave	0.7072	0.7196		0.0203	0.0200	1.7	20.0
tert-Butylbenzene	Ave	2.113	2.046		0.0194	0.0200	-3.2	20.0
1,2,4-Trimethylbenzene	Ave	2.256	2.234		0.0198	0.0200	-1.0	20.0
sec-Butylbenzene	Ave	2.845	2.675		0.0188	0.0200	-6.0	20.0
1,3-Dichlorobenzene	Ave	1.412	1.295	0.6000	0.0183	0.0200	-8.3	20.0
p-Isopropyltoluene	Ave	2.492	2.336		0.0188	0.0200	-6.2	20.0
1,4-Dichlorobenzene	Ave	1.459	1.277	0.5000	0.0175	0.0200	-12.5	20.0
n-Butylbenzene	Ave	2.050	1.741		0.0170	0.0200	-15.0	20.0
1,2-Dichlorobenzene	Ave	1.282	1.195	0.4000	0.0186	0.0200	-6.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Lab Sample ID: CCVIS 240-425546/4 Calibration Date: 03/05/2020 18:53

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: U1913207.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	0.2045	0.0500	0.0167	0.0200	-16.5	50.0
1,2,4-Trichlorobenzene	Ave	0.8550	0.4891	0.2000	0.0114	0.0200	-42.8	50.0
Hexachlorobutadiene	Ave	0.4392	0.2001		0.00911	0.0200	-54.4*	50.0
Naphthalene	Ave	2.363	1.800		0.0152	0.0200	-23.8	50.0
1,2,3-Trichlorobenzene	Ave	0.7677	0.4946		0.0129	0.0200	-35.6*	20.0
Dibromofluoromethane (Surr)	Ave	0.2692	0.2585		0.0192	0.0200	-4.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3092	0.2719		0.0176	0.0200	-12.1	20.0
Toluene-d8 (Surr)	Ave	1.199	1.187		0.0198	0.0200	-1.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4513	0.4101		0.0182	0.0200	-9.1	20.0

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913207.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Mar-2020 18:53:55 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-004
Operator ID: 001904 Instrument ID: A3UX19
Sublist: chrom-8260_19*sub1

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Mar-2020 19:15:50 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: laveyt Date: 05-Mar-2020 19:15:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.666	5.666	0.000	99	1203904	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	83	959607	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	91	483337	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	93	311152	20.0	19.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	99	327324	20.0	17.6	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	92	1139435	20.0	19.8	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	95	393508	20.0	18.2	
9 Dichlorodifluoromethane	85	1.622	1.622	0.000	100	400599	20.0	17.3	
10 Chloromethane	50	1.823	1.823	0.000	98	293853	20.0	16.9	
11 Butadiene	54	1.918	1.918	0.000	87	263822	20.0	15.2	
12 Vinyl chloride	62	1.930	1.930	0.000	98	320003	20.0	17.8	
13 Bromomethane	94	2.227	2.227	0.000	92	281746	20.0	20.0	
15 Chloroethane	64	2.321	2.321	0.000	99	224657	20.0	20.2	
16 Dichlorofluoromethane	67	2.511	2.511	0.000	97	531636	20.0	19.3	
17 Trichlorofluoromethane	101	2.570	2.570	0.000	99	539469	20.0	18.0	
18 Ethyl ether	59	2.820	2.820	0.000	85	223503	20.0	20.6	
19 Acrolein	56	2.938	2.938	0.000	100	251818	100.0	94.1	
20 1,1-Dichloroethene	61	3.045	3.045	0.000	96	413041	20.0	19.1	
21 1,1,2-Trichloro-1,2,2-trif	101	3.069	3.069	0.000	95	328819	20.0	21.3	
22 Acetone	43	3.080	3.080	0.000	100	188999	40.0	40.0	
24 Iodomethane	142	3.187	3.187	0.000	98	568306	20.0	20.3	
25 Carbon disulfide	76	3.258	3.258	0.000	99	890745	20.0	19.7	
27 3-Chloro-1-propene	41	3.377	3.377	0.000	85	319246	20.0	15.0	
28 Methyl acetate	43	3.389	3.389	0.000	95	475718	40.0	34.0	
29 Methylene Chloride	49	3.484	3.484	0.000	83	301908	20.0	17.6	
30 2-Methyl-2-propanol	59	3.578	3.578	0.000	97	295686	200.0	181.4	
31 Acrylonitrile	53	3.697	3.697	0.000	98	1273165	200.0	210.3	
32 trans-1,2-Dichloroethene	61	3.744	3.744	0.000	80	386043	20.0	18.9	
33 Methyl tert-butyl ether	73	3.744	3.744	0.000	93	715916	20.0	17.1	
34 Hexane	57	3.994	3.994	0.000	88	364445	20.0	17.2	
35 1,1-Dichloroethane	63	4.112	4.112	0.000	97	477200	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
36 Vinyl acetate	43	4.160	4.160	0.000	97	470665	20.0	16.9	
40 2-Butanone (MEK)	72	4.634	4.634	0.000	79	107033	40.0	37.7	
41 cis-1,2-Dichloroethene	96	4.634	4.634	0.000	80	345144	20.0	19.8	
42 2,2-Dichloropropane	77	4.634	4.634	0.000	88	261810	20.0	17.8	
46 Chlorobromomethane	49	4.847	4.847	0.000	81	201927	20.0	17.2	
47 Tetrahydrofuran	42	4.895	4.895	0.000	81	204261	40.0	32.3	
48 Chloroform	83	4.907	4.907	0.000	94	537100	20.0	20.1	
49 1,1,1-Trichloroethane	97	5.096	5.096	0.000	98	457067	20.0	18.2	
50 Cyclohexane	84	5.144	5.144	0.000	83	459545	20.0	20.0	
51 1,1-Dichloropropene	75	5.239	5.239	0.000	98	426799	20.0	20.1	
52 Carbon tetrachloride	117	5.239	5.239	0.000	98	443972	20.0	18.3	
53 Isobutyl alcohol	41	5.298	5.298	0.000	91	303008	500.0	458.4	
54 Benzene	78	5.417	5.417	0.000	94	1154385	20.0	20.1	
55 1,2-Dichloroethane	62	5.428	5.428	0.000	99	400001	20.0	18.5	
57 n-Heptane	57	5.642	5.642	0.000	89	179712	20.0	12.6	
59 Trichloroethene	130	5.998	5.998	0.000	95	365561	20.0	19.2	
61 Methylcyclohexane	83	6.176	6.176	0.000	88	497706	20.0	18.0	
62 1,2-Dichloropropane	63	6.199	6.199	0.000	95	241756	20.0	18.2	
65 1,4-Dioxane	88	6.306	6.306	0.000	38	88625	400.0	616.2	
64 Dibromomethane	174	6.306	6.306	0.000	93	225728	20.0	16.5	
66 Dichlorobromomethane	83	6.436	6.436	0.000	99	390450	20.0	18.6	
68 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	94	378025	40.0	35.5	
69 cis-1,3-Dichloropropene	75	6.851	6.851	0.000	97	426291	20.0	18.3	
70 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	94	599580	40.0	31.1	
71 Toluene	91	7.172	7.172	0.000	98	1315895	20.0	20.3	
72 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	90	404233	20.0	17.5	
73 Ethyl methacrylate	69	7.444	7.444	0.000	85	376076	20.0	18.0	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	91	273943	20.0	20.1	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	86	457372	20.0	19.9	
75 Tetrachloroethene	166	7.705	7.705	0.000	97	363973	20.0	17.6	
77 2-Hexanone	43	7.776	7.776	0.000	92	471469	40.0	31.2	
79 Chlorodibromomethane	129	7.931	7.931	0.000	89	326659	20.0	19.0	
81 Ethylene Dibromide	107	8.049	8.049	0.000	99	302833	20.0	18.9	
83 Chlorobenzene	112	8.535	8.535	0.000	97	872790	20.0	19.7	
84 1,1,1,2-Tetrachloroethane	131	8.607	8.607	0.000	96	307806	20.0	19.2	
85 Ethylbenzene	106	8.630	8.630	0.000	98	449184	20.0	19.4	
86 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	569001	20.0	20.1	
87 o-Xylene	106	9.152	9.152	0.000	95	530523	20.0	19.8	
88 Styrene	104	9.164	9.164	0.000	92	909674	20.0	19.8	
89 Bromoform	173	9.354	9.354	0.000	96	223237	20.0	15.9	
90 Isopropylbenzene	105	9.520	9.520	0.000	96	1369544	20.0	19.0	
93 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	96	402537	20.0	21.6	
95 Bromobenzene	156	9.840	9.840	0.000	87	346637	20.0	18.7	
97 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	74	115828	20.0	17.5	
96 1,2,3-Trichloropropane	110	9.875	9.875	0.000	83	144473	20.0	20.5	
98 N-Propylbenzene	120	9.947	9.947	0.000	98	392631	20.0	21.0	
100 2-Chlorotoluene	126	10.041	10.041	0.000	97	329327	20.0	20.8	
101 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	94	1095108	20.0	20.4	
102 4-Chlorotoluene	126	10.160	10.160	0.000	96	347808	20.0	20.3	
103 tert-Butylbenzene	119	10.468	10.468	0.000	89	988869	20.0	19.4	
105 1,2,4-Trimethylbenzene	105	10.528	10.528	0.000	96	1079573	20.0	19.8	
106 sec-Butylbenzene	105	10.706	10.706	0.000	94	1292943	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
107 1,3-Dichlorobenzene	146	10.824	10.824	0.000	97	625979	20.0	18.3	
108 4-Isopropyltoluene	119	10.848	10.848	0.000	97	1129277	20.0	18.8	
109 1,4-Dichlorobenzene	146	10.919	10.919	0.000	95	617260	20.0	17.5	
112 n-Butylbenzene	91	11.287	11.287	0.000	97	841563	20.0	17.0	
113 1,2-Dichlorobenzene	146	11.310	11.310	0.000	99	577811	20.0	18.6	
114 1,2-Dibromo-3-Chloropropan	157	12.129	12.129	0.000	90	98848	20.0	16.7	
116 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	93	236386	20.0	11.4	
117 Hexachlorobutadiene	225	13.208	13.208	0.000	98	96715	20.0	9.11	
118 Naphthalene	128	13.279	13.279	0.000	97	870086	20.0	15.2	
119 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	96	239056	20.0	12.9	
S 124 Total BTEX	1				0		100.0	99.7	
S 125 Trihalomethanes, Total	1				0		80.0	73.6	
S 128 Xylenes, Total	106				0		40.0	39.9	

Reagents:

vmarolistdw_00335	Amount Added:	16.00	Units: uL	
vmrprimw_00376	Amount Added:	16.00	Units: uL	
vmrgas_00329	Amount Added:	16.00	Units: uL	
vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

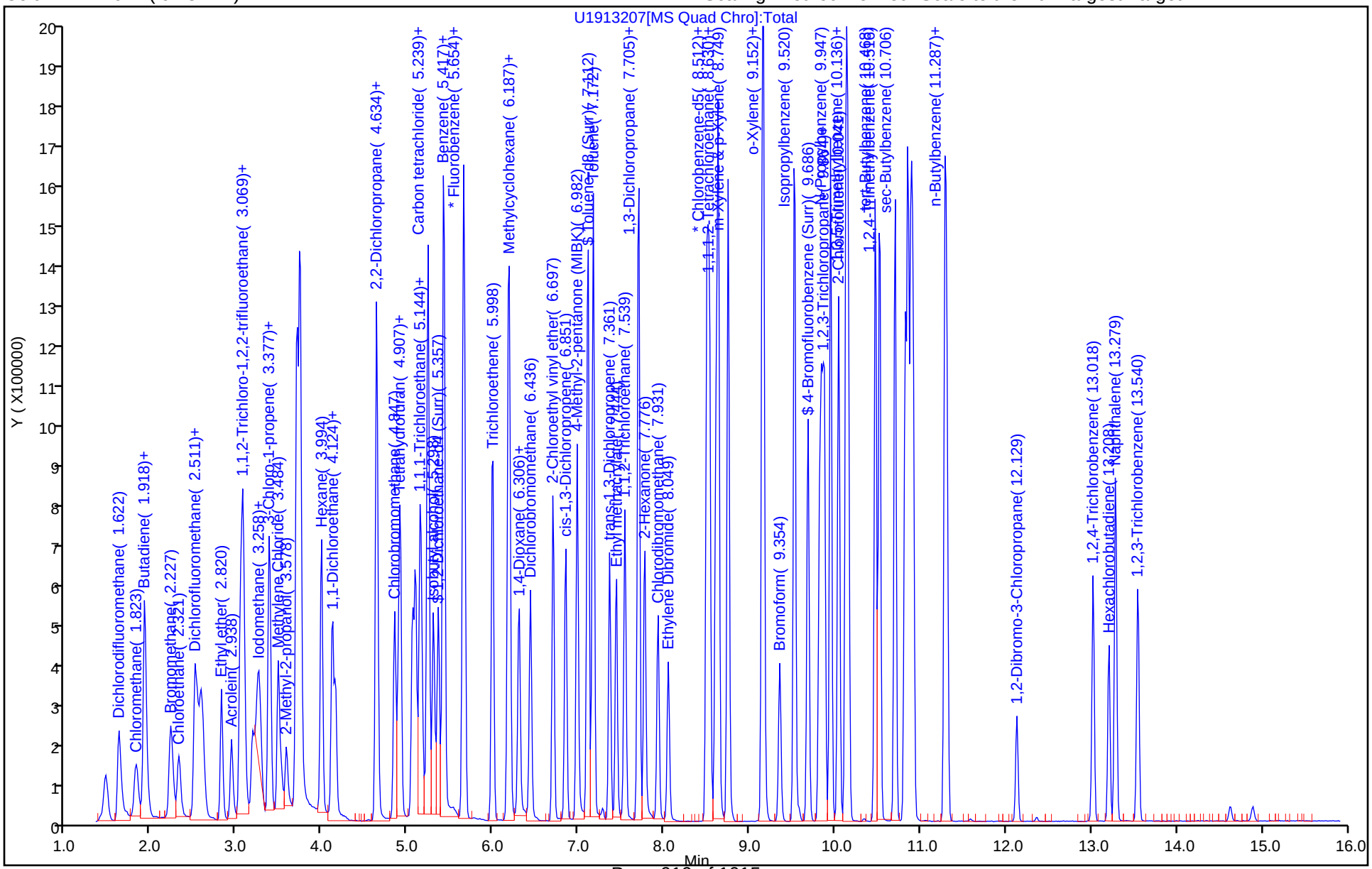
Report Date: 05-Mar-2020 19:15:53 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913207.d

Injection Date:	05-Mar-2020 18:53:55	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



Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\BFB6359.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 07-Feb-2020 15:54:30 ALS Bottle#: 4 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0095576-001
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 07-Feb-2020 16:04:50 Calib Date: 24-Jan-2020 19:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200124-95158.b\UXM26742.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0313

First Level Reviewer: bosworthh Date: 07-Feb-2020 16:04:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.983	3.983	0.000	0	236891	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

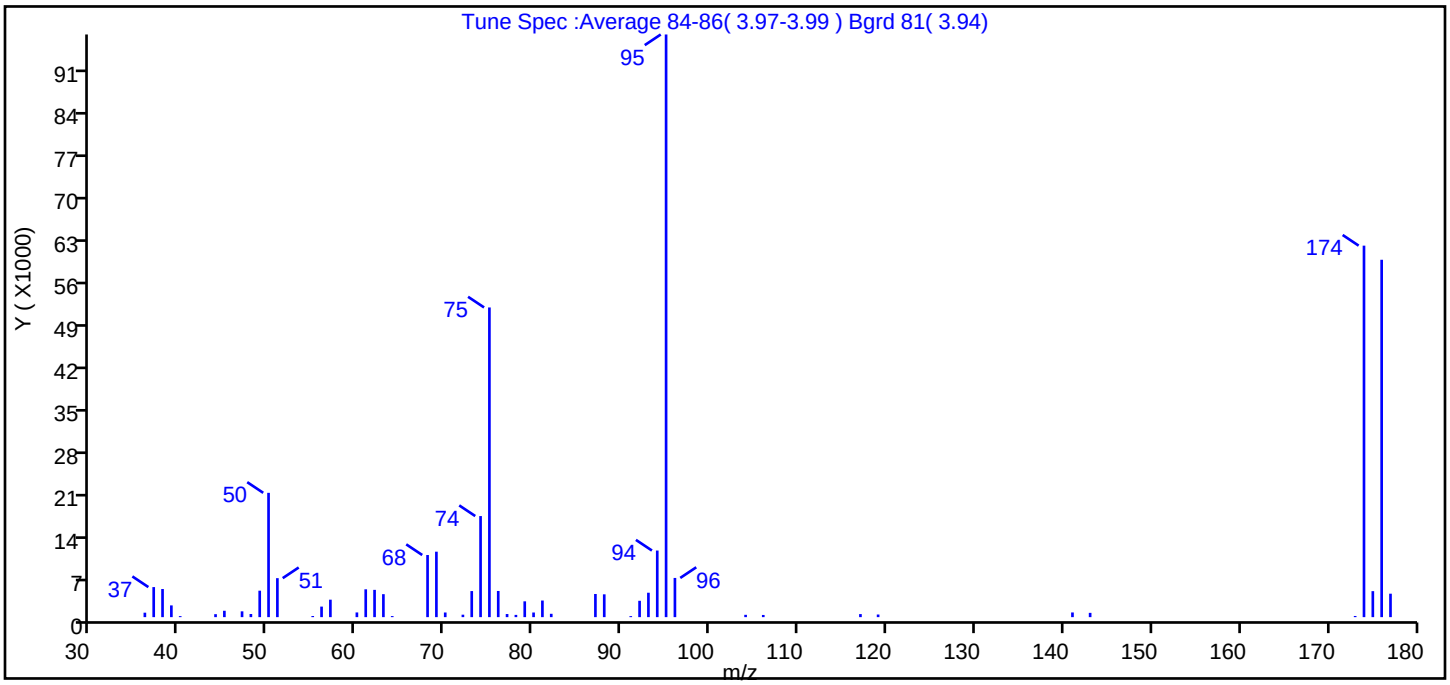
vmbfb_00024 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\BFB6359.D
Injection Date: 07-Feb-2020 15:54:30 Instrument ID: A3UX16
Lims ID: BFB
Client ID:
Operator ID: 001765 ALS Bottle#: 4 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	21.3
75	30 to 60% of m/z 95	53.2
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	63.8
175	5 to 9% of m/z 174	4.5 (7.0)
176	Greater than 95% but less than 101% of m/z 174	61.3 (96.2)
177	5 to 9% of m/z 176	4.0 (6.6)

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\BFB6359.D\8260_16.rslt\spectra.d
Injection Date: 07-Feb-2020 15:54:30
Spectrum: Tune Spec :Average 84-86(3.97-3.99) Bgrd 81(3.94)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	740	57.00	2898	77.00	516	104.00	386
37.00	4988	60.00	780	78.00	374	106.00	363
38.00	4669	61.00	4620	79.00	2624	117.00	507
39.00	1950	62.00	4528	80.00	770	119.00	436
40.00	167	63.00	3813	81.00	2758	141.00	778
44.00	494	64.00	176	82.00	556	143.00	712
45.00	1059	68.00	10311	87.00	3842	173.00	193
47.00	965	69.00	10864	88.00	3787	174.00	61656
48.00	522	70.00	771	91.00	167	175.00	4314
49.00	4391	72.00	409	92.00	2714	176.00	59312
50.00	20632	73.00	4328	93.00	4052	177.00	3892
51.00	6471	74.00	16776	94.00	11054		
55.00	185	75.00	51400	95.00	96704		
56.00	1750	76.00	4344	96.00	6506		

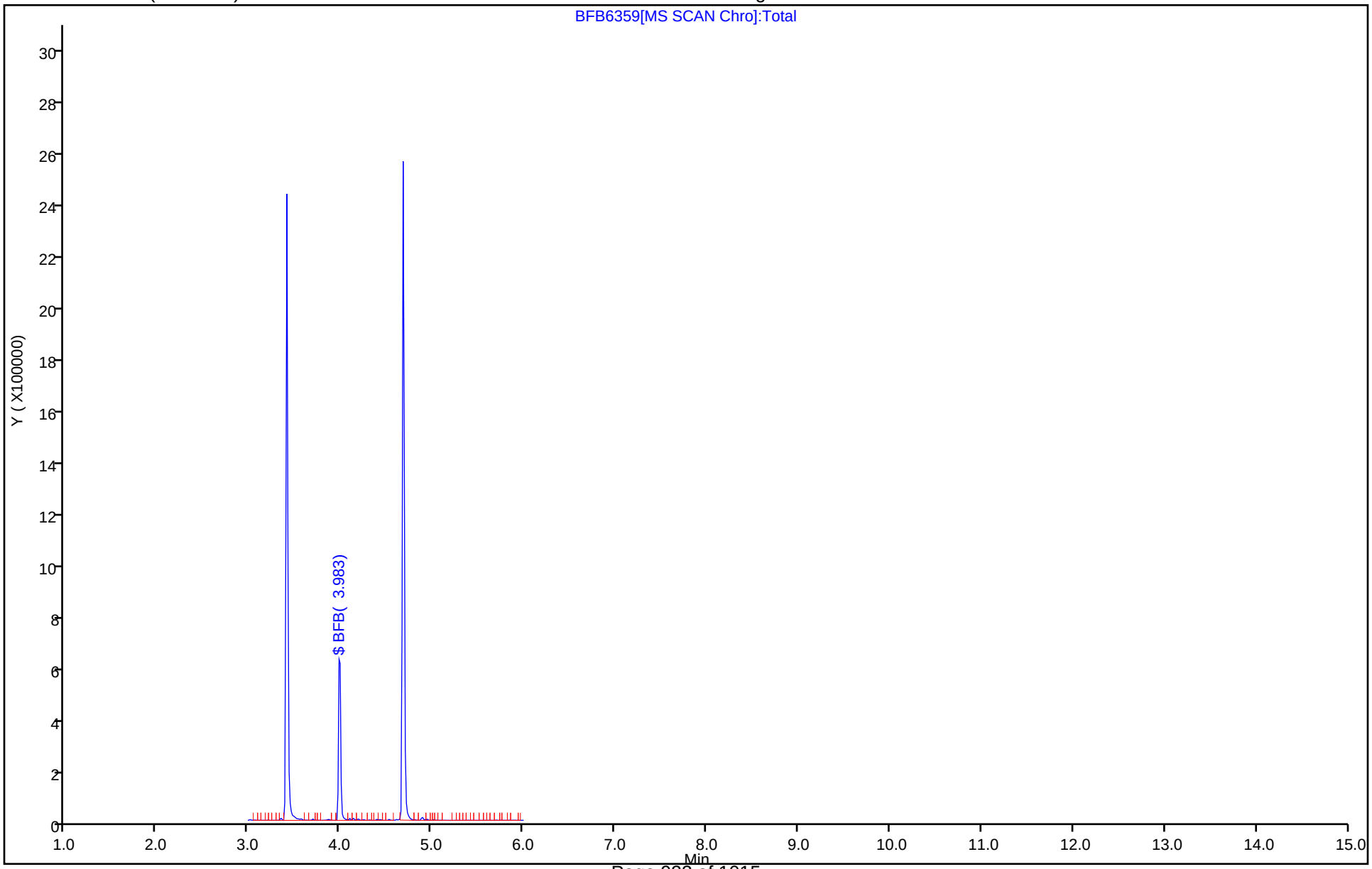
Report Date: 07-Feb-2020 16:04:51 Chrom Revision: 2.3 15-Dec-2019 06:20:02

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\BFB6359.D

Injection Date:	07-Feb-2020 15:54:30	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#:	4
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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\BFB6368.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 06-Mar-2020 10:27:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-001
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 11:36:48 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 11:36:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.983	3.983	0.000	0	258344	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

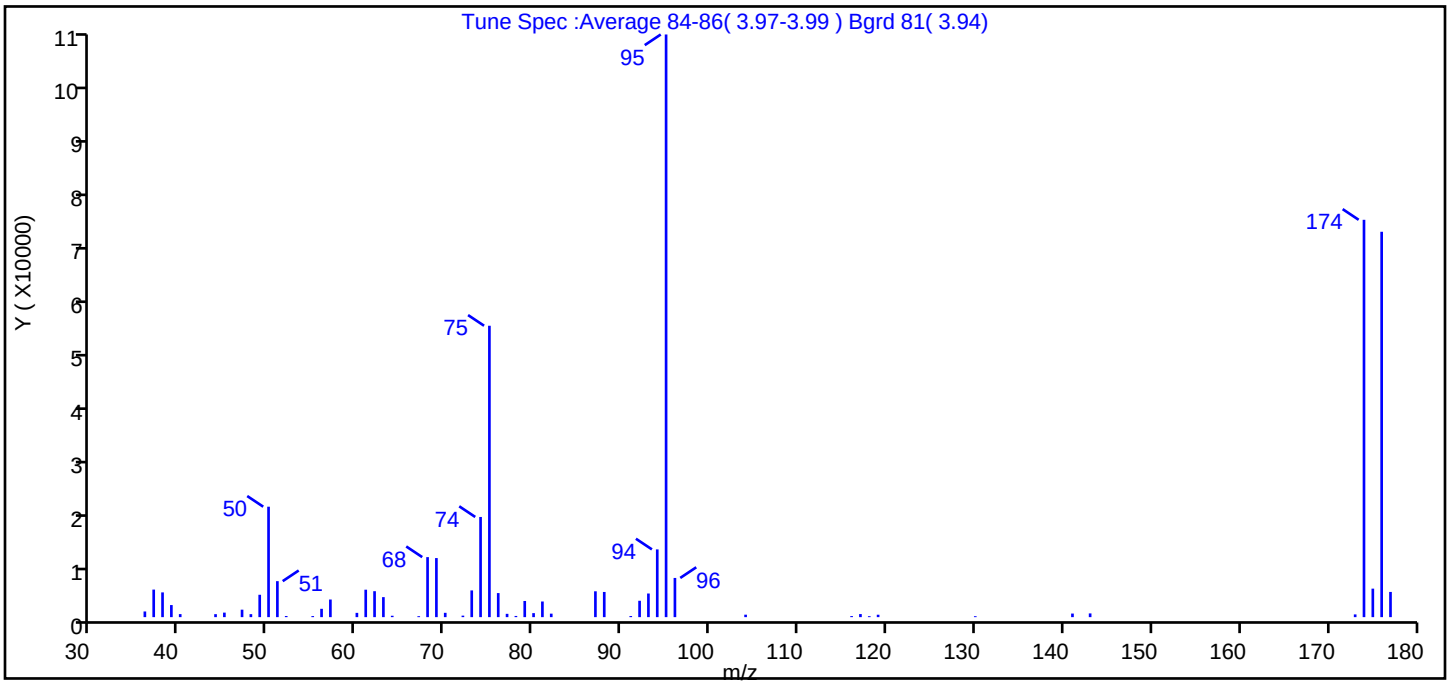
vmbfb_00024 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\BFB6368.D
Injection Date: 06-Mar-2020 10:27:30 Instrument ID: A3UX16
Lims ID: BFB
Client ID:
Operator ID: 001765 ALS Bottle#: 1 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	19.0
75	30 to 60% of m/z 95	50.0
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.5 (0.7)
174	50 to 120% of m/z 95	68.2
175	5 to 9% of m/z 174	4.9 (7.2)
176	Greater than 95% but less than 101% of m/z 174	66.1 (97.0)
177	5 to 9% of m/z 176	4.3 (6.5)

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\BFB6368.D\8260_16.rslt\spectra.d
Injection Date: 06-Mar-2020 10:27:30
Spectrum: Tune Spec :Average 84-86(3.97-3.99) Bgrd 81(3.94)
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	1039	57.00	3229	77.00	607	116.00	193
37.00	5046	60.00	783	78.00	219	117.00	562
38.00	4532	61.00	5025	79.00	2960	118.00	172
39.00	2213	62.00	4751	80.00	735	119.00	443
40.00	556	63.00	3666	81.00	2865	130.00	170
44.00	547	64.00	255	82.00	641	141.00	658
45.00	830	67.00	173	87.00	4733	143.00	684
47.00	1368	68.00	10992	88.00	4611	173.00	502
48.00	549	69.00	10818	91.00	200	174.00	72760
49.00	4097	70.00	791	92.00	2998	175.00	5218
50.00	20224	72.00	274	93.00	4329	176.00	70568
51.00	6591	73.00	4895	94.00	12405	177.00	4616
52.00	207	74.00	18344	95.00	106696		
55.00	194	75.00	53360	96.00	7178		
56.00	1526	76.00	4406	104.00	451		

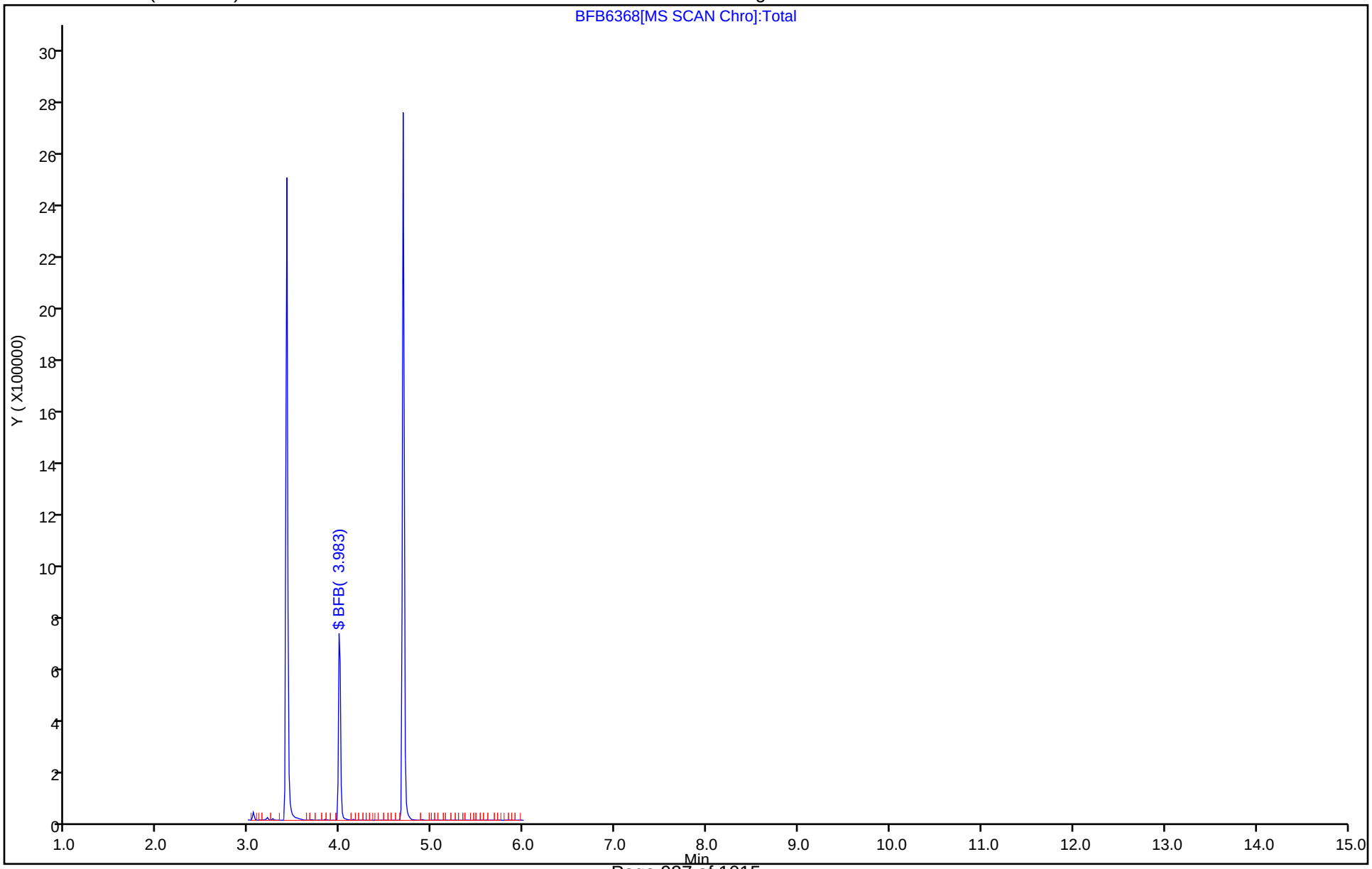
Report Date: 06-Mar-2020 11:36:49 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\BFB6368.D

Injection Date:	06-Mar-2020 10:27:30	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#:	1
Method:	8260_16	Limit Group:	MSV 8260C ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 24-Jul-2018 18:26:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Target Compound Quantitation Report

Data File:	\\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\bfb036.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	24-Jul-2018 17:22:19	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	240-0078277-001				
Operator ID:	001904	Instrument ID:	A3UX19		
Method:	\\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\8260_19.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	24-Jul-2018 18:26:01	Calib Date:	01-Jan-0001 00:00:00		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK002				
First Level Reviewer: laveyt		Date:	24-Jul-2018 18:26:01		

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	1090680	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

vmbfb_00020 Amount Added: 1.00 Units: uL

Report Date: 24-Jul-2018 18:26:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

MS Tune Report

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\bfb036.d

Injection Date: 24-Jul-2018 17:22:19 Instrument ID: A3UX19

Lims ID: BFB

Client ID:

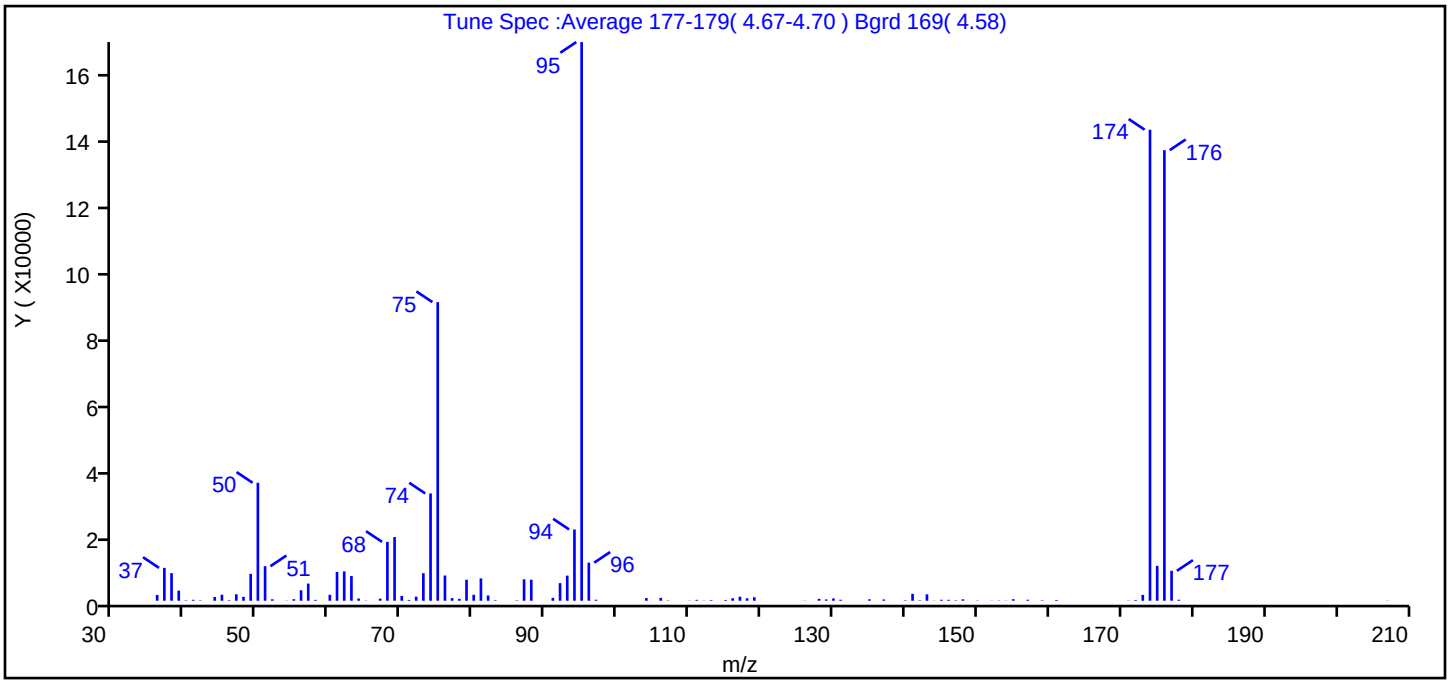
Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 1

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	21.1
75	30 to 60% of m/z 95	53.5
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	1.1 (1.2)
174	50 to 120% of m/z 95	84.3
175	5 to 9% of m/z 174	6.2 (7.4)
176	Greater than 95% but less than 101% of m/z 174	80.7 (95.7)
177	5 to 9% of m/z 176	5.4 (6.6)

Report Date: 24-Jul-2018 18:26:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\bfb036.d\8260_19.rslt\spectra.d

Injection Date: 24-Jul-2018 17:22:19

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: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1706	64.00	645	94.00	20976	142.00	135
37.00	9667	65.00	75	95.00	164416	143.00	1887
38.00	8121	67.00	620	96.00	11195	144.00	54
39.00	2976	68.00	17320	97.00	297	145.00	282
40.00	128	69.00	18752	104.00	777	146.00	275
41.00	280	70.00	1405	106.00	846	147.00	123
42.00	120	71.00	220	107.00	102	148.00	420
44.00	1112	72.00	1196	110.00	66	150.00	76
45.00	1770	73.00	8112	111.00	269	152.00	57
46.00	157	74.00	31576	112.00	68	153.00	83
47.00	1883	75.00	87888	113.00	186	154.00	50
48.00	1146	76.00	7419	115.00	214	155.00	454
49.00	7909	77.00	768	116.00	734	157.00	295
50.00	34728	78.00	542	117.00	1191	159.00	132
51.00	10164	79.00	6178	118.00	715	161.00	228
52.00	428	80.00	1749	119.00	1035	171.00	76
54.00	52	81.00	6569	126.00	50	172.00	196
55.00	455	82.00	1544	128.00	562	173.00	1730
56.00	3065	83.00	158	129.00	380	174.00	138624
57.00	5049	86.00	123	130.00	675	175.00	10263
58.00	260	87.00	6315	131.00	295	176.00	132608
60.00	1747	88.00	6174	135.00	411	177.00	8811
61.00	8473	91.00	844	137.00	377	178.00	300
62.00	8634	92.00	5187	140.00	129	207.00	54
63.00	7267	93.00	7390	141.00	2044		

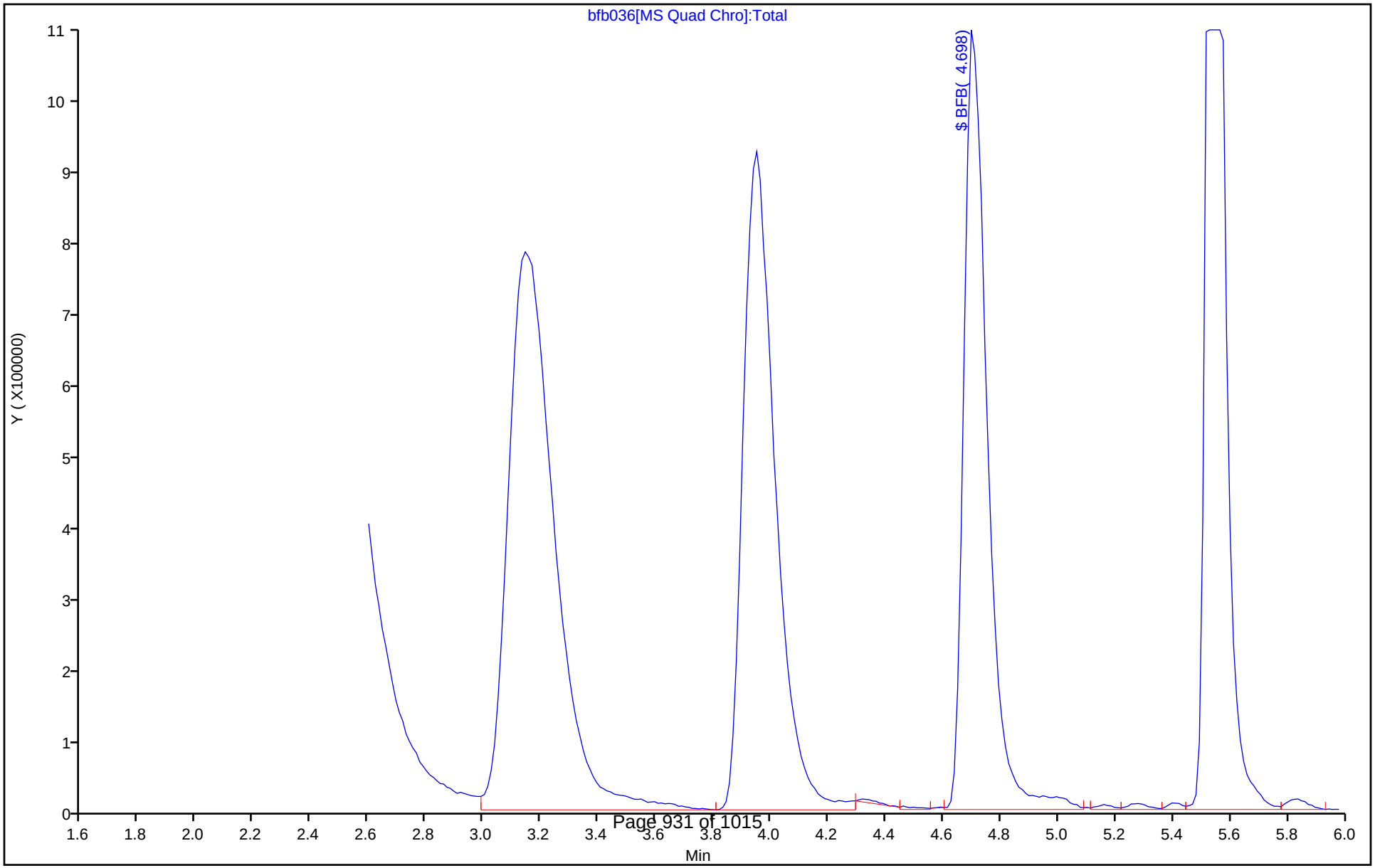
Report Date: 24-Jul-2018 18:26:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Canton

Data File: \\ChromNA\Canton\ChromData\A3UX19\20180724-78277.b\bfb036.d

Injection Date:	24-Jul-2018 17:22:19	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\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

Report Date: 25-Jul-2018 16:32:07 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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:

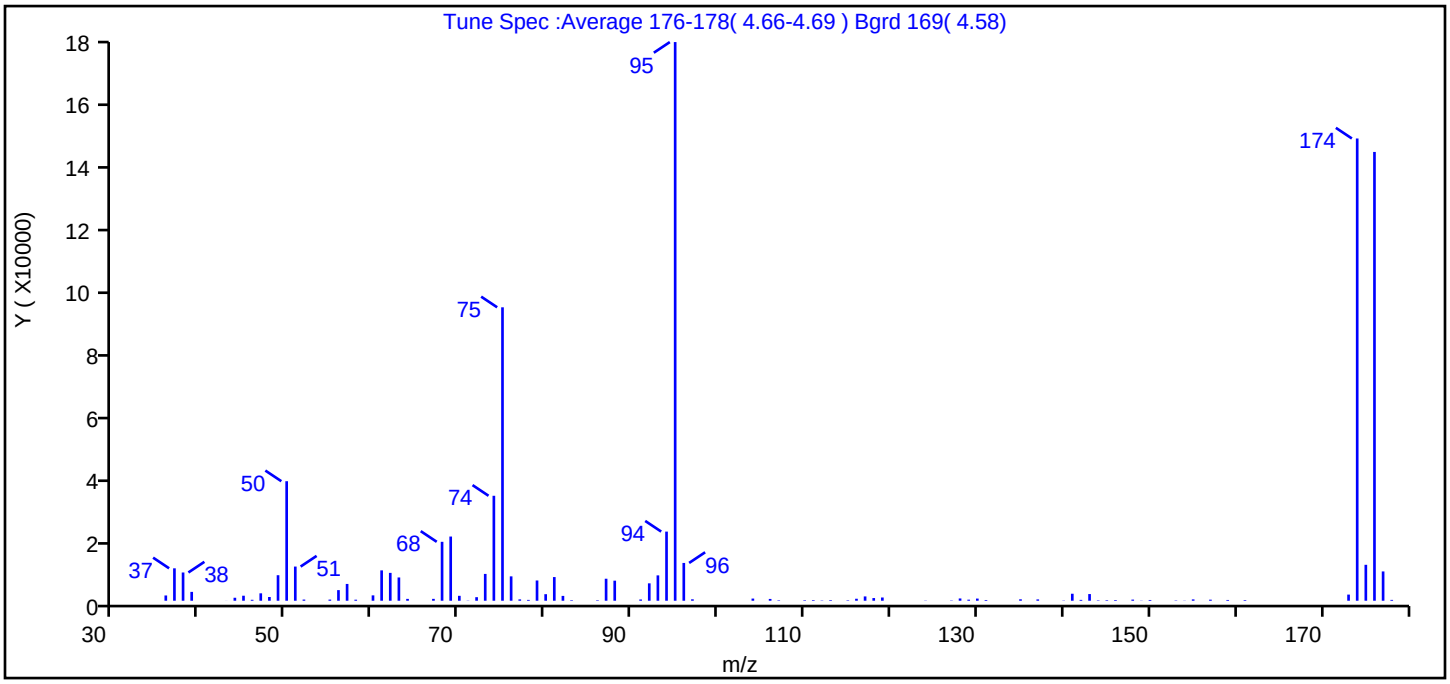
Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 1

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)

Report Date: 25-Jul-2018 16:32:07 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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

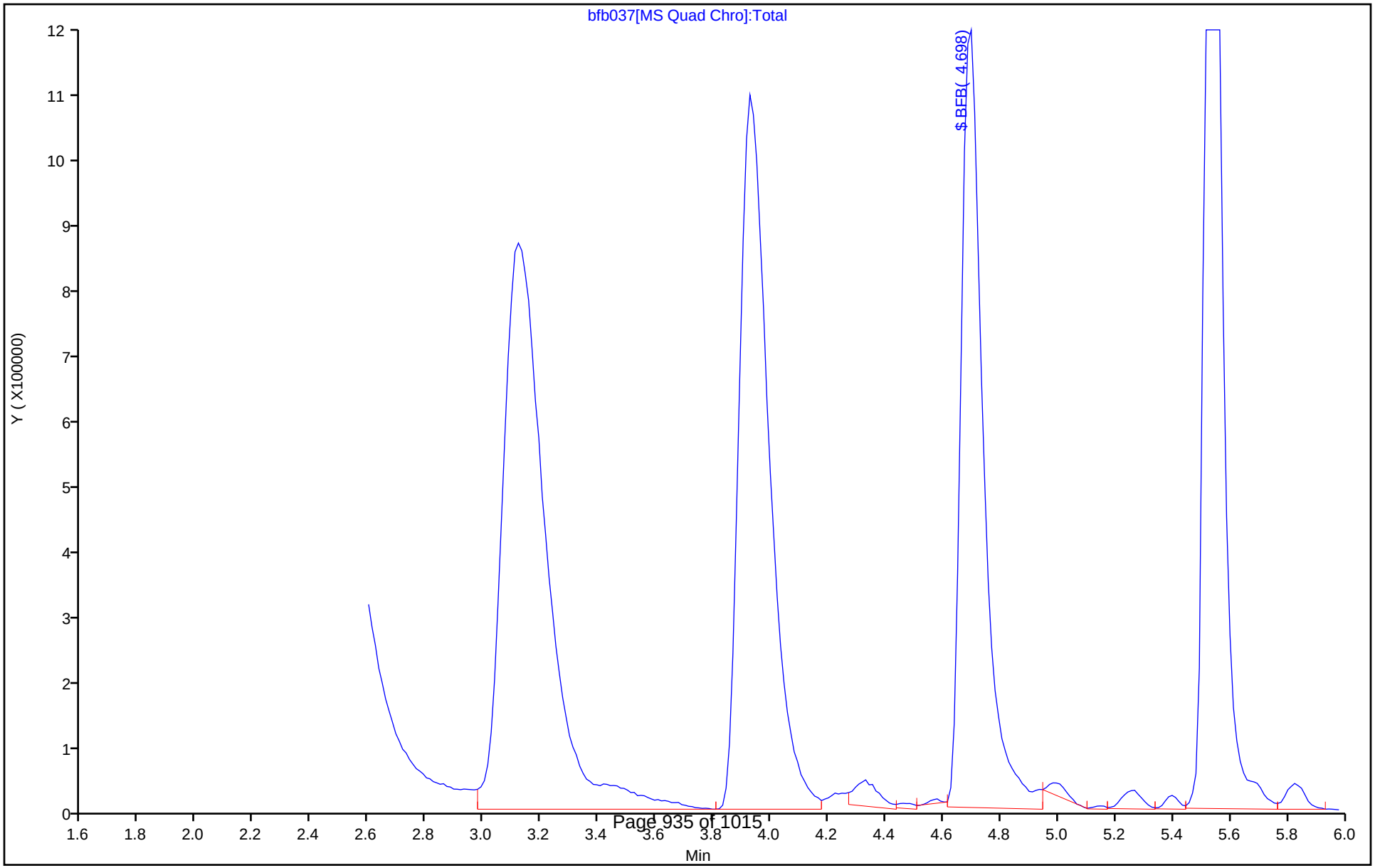
Report Date: 25-Jul-2018 16:32:07 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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:

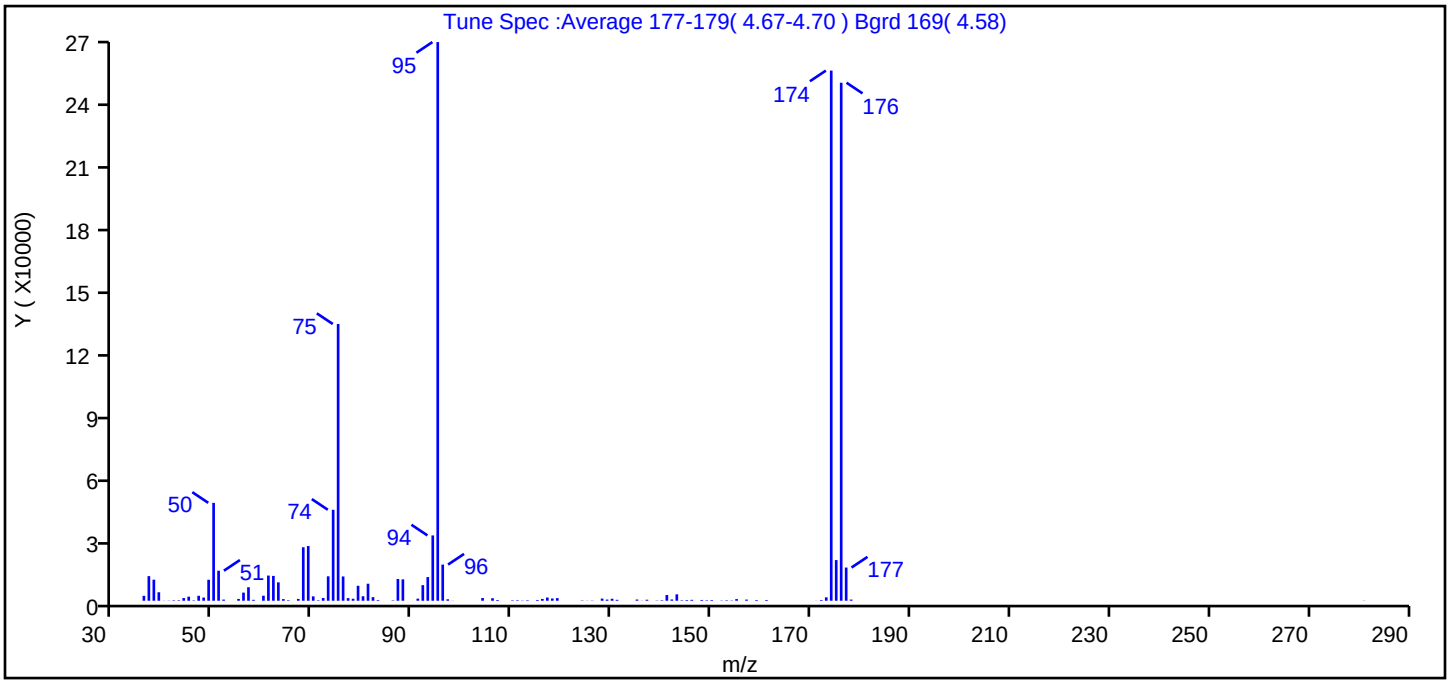
Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 1

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

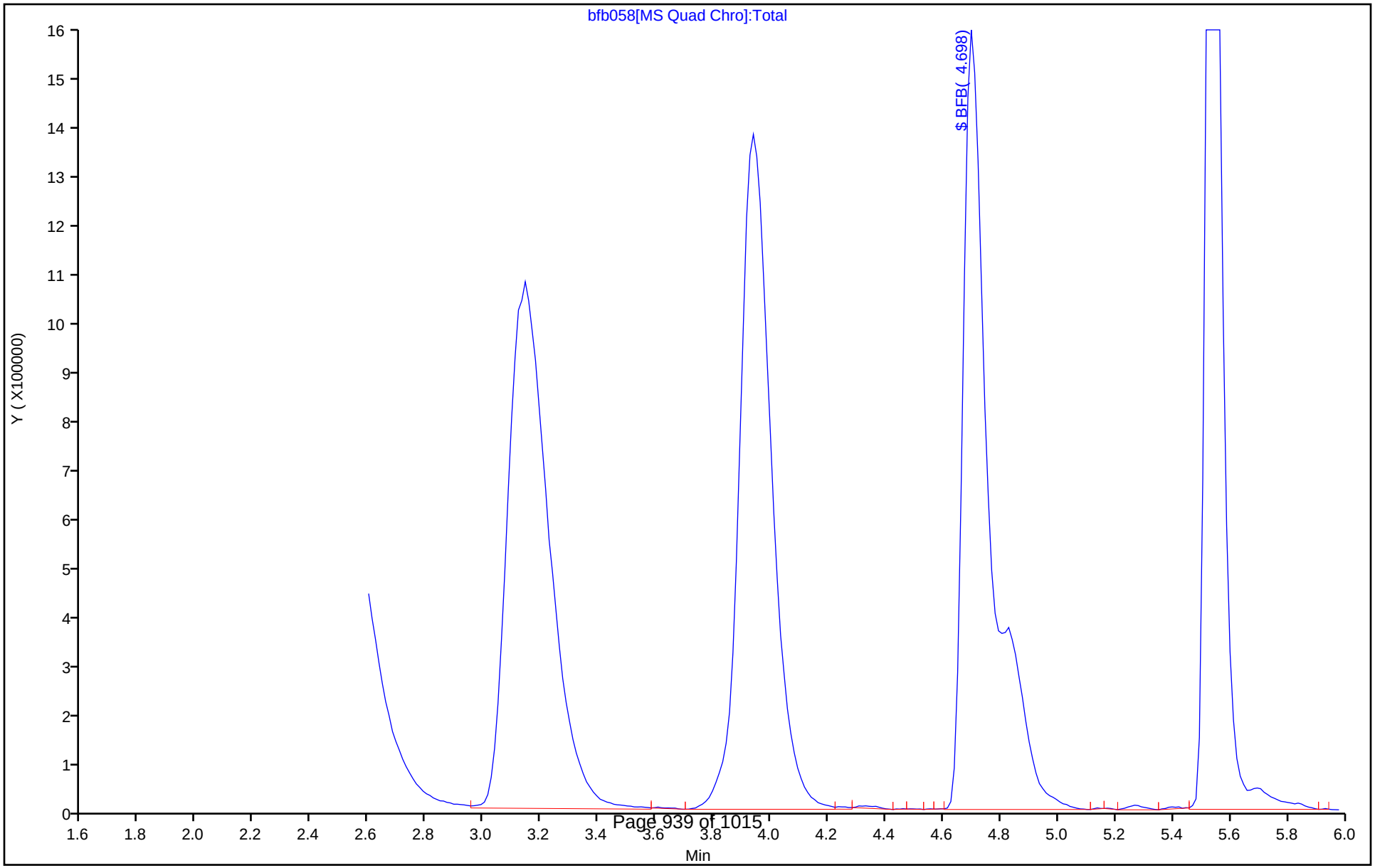
Report Date: 27-Aug-2018 20:00:44 Chrom Revision: 2.3 19-Jul-2018 15:14:50

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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\bfb469.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 05-Mar-2020 18:08:24 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-002
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Mar-2020 18:39:03 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: laveyt Date: 05-Mar-2020 18:39:03

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	2976907	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

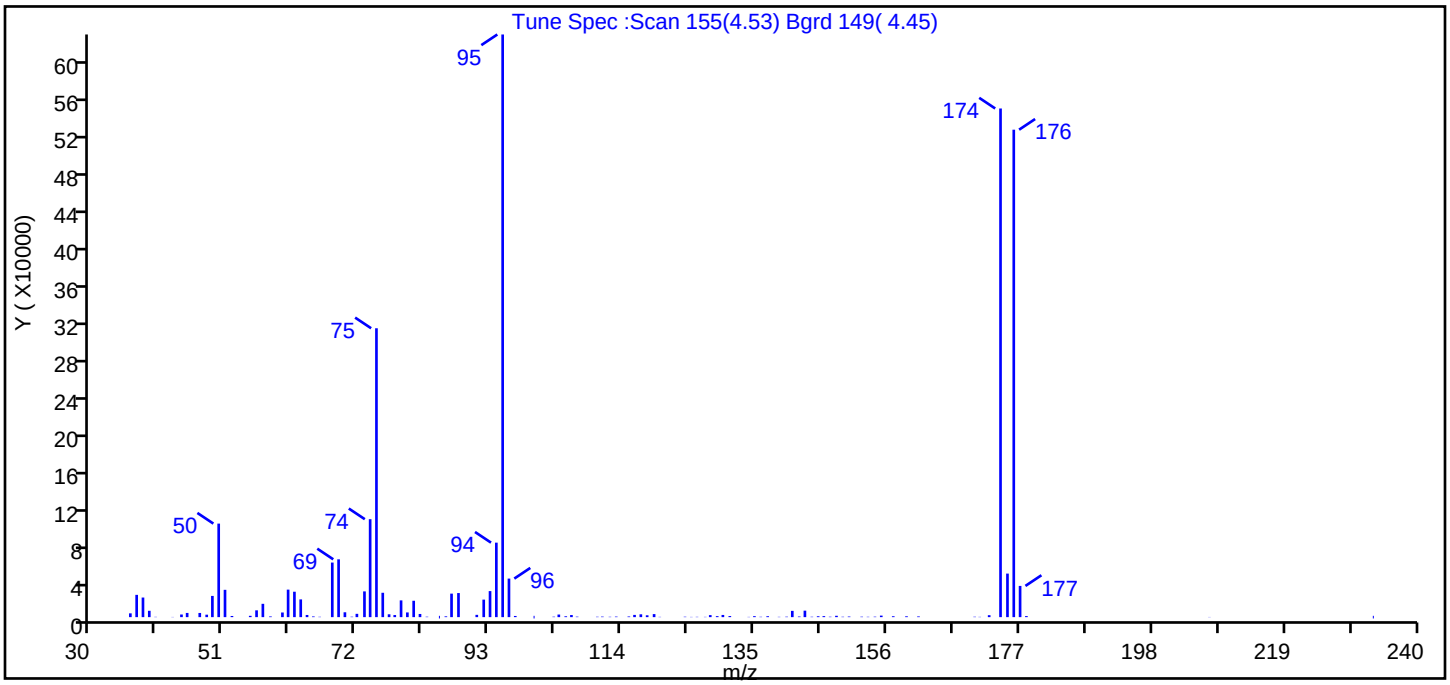
vmbfb_00024 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\bfb469.d
Injection Date: 05-Mar-2020 18:08:24 Instrument ID: A3UX19
Lims ID: BFB
Client ID:
Operator ID: 001904 ALS Bottle#: 0 Worklist Smp#: 2
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	16.1
75	30 to 60% of m/z 95	49.6
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	87.3
175	5 to 9% of m/z 174	7.5 (8.6)
176	Greater than 95% but less than 101% of m/z 174	83.7 (95.8)
177	5 to 9% of m/z 176	5.4 (6.4)

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\bfb469.d\8260_19.rslt\spectra.d
Injection Date: 05-Mar-2020 18:08:24
Spectrum: Tune Spec :Scan 155(4.53) Bgrd 149(4.45)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	4069	71.20	463	106.00	2243	143.00	6943
37.10	23872	72.00	3551	106.90	519	144.10	422
38.10	21008	73.20	27584	110.10	419	145.10	945
39.10	6808	74.10	104936	110.90	571	146.00	1084
40.10	309	75.10	309504	112.10	388	147.00	451
42.80	207	76.10	26112	113.10	599	148.00	1457
44.20	2831	77.10	3058	115.10	709	149.00	419
45.10	4505	78.00	2244	116.00	2390	150.00	647
47.10	4487	79.00	17960	117.00	3042	152.00	482
48.20	2634	80.00	5045	118.00	1989	153.00	374
49.10	22736	81.00	17552	119.10	3268	154.10	504
50.10	100216	82.00	3397	120.00	286	155.10	1644
51.10	29264	83.10	454	124.00	449	157.00	961
52.20	1246	85.00	0	125.00	245	159.10	906
55.10	1413	86.10	845	125.90	336	161.00	754
56.10	7289	87.00	25200	127.20	286	169.90	427
57.10	14277	88.10	25808	128.00	2172	170.70	287
58.30	744	91.00	2463	129.10	1069	172.20	2080
60.20	4980	92.10	18784	130.00	2345	174.00	544960
61.10	29480	93.10	27904	131.10	1156	175.10	46664
62.10	27240	94.10	79816	134.10	257	176.10	522240
63.10	19016	95.10	624256	135.00	1037	177.10	33456
64.10	2326	96.10	41304	136.00	383	178.10	1129
65.10	741	97.10	1260	137.10	983	207.10	191
66.10	370	100.00	0	138.90	320	233.00	0
68.10	58488	103.20	479	140.10	492		
69.10	61944	104.00	2785	141.00	6726		
70.10	5217	105.10	929	142.10	655		

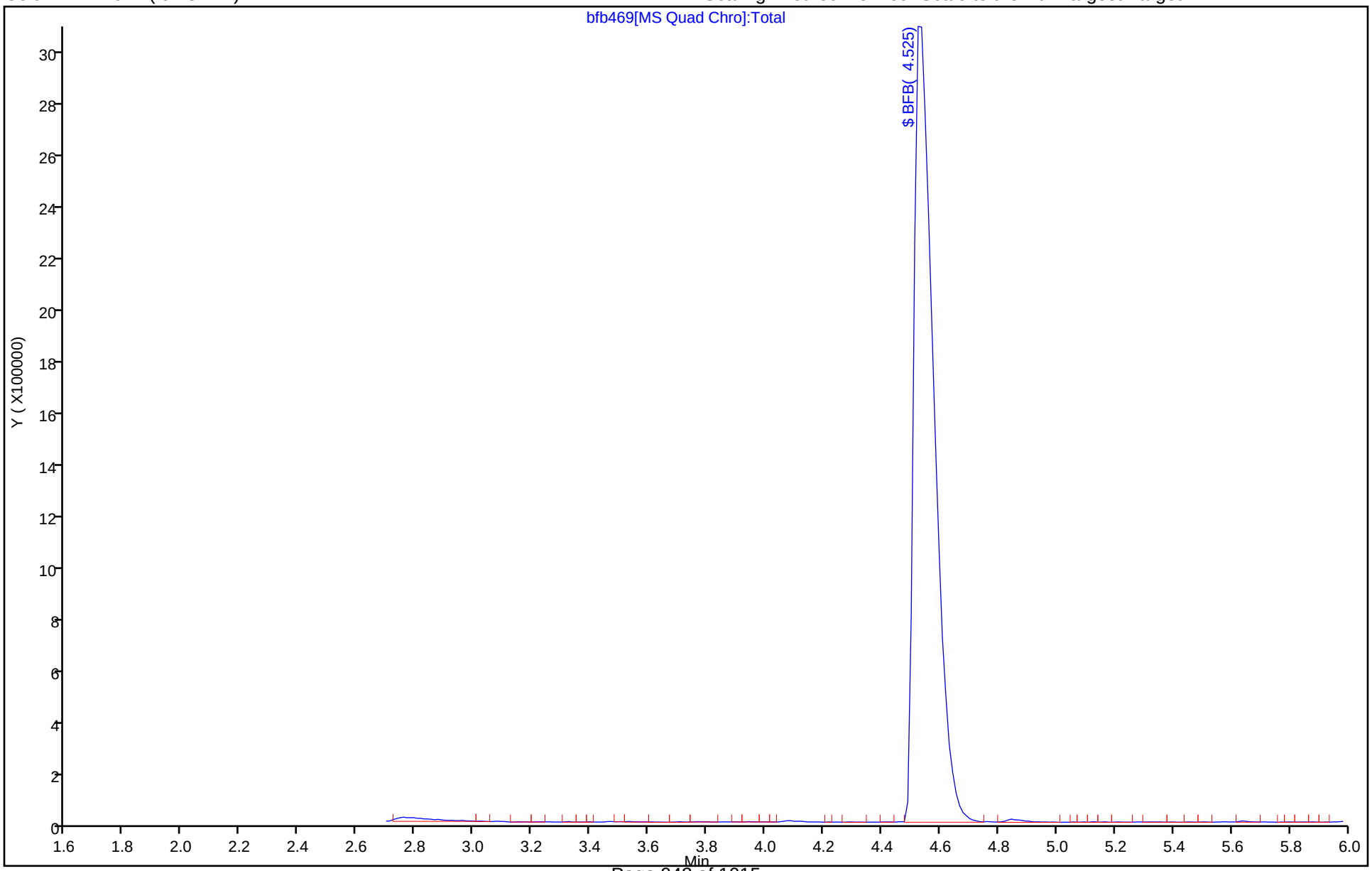
Report Date: 05-Mar-2020 18:39:03 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\bfb469.d

Injection Date:	05-Mar-2020 18:08:24	Instrument ID:	A3UX19	Operator ID:	001904
Lims ID:	BFB			Worklist Smp#:	2
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 I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425546/8

Matrix: Water Lab File ID: U1913211.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 20:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425546/8

Matrix: Water Lab File ID: U1913211.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 20:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425546/8

Matrix: Water Lab File ID: U1913211.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 20:24

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		75-130
460-00-4	4-Bromofluorobenzene (Surr)	88		47-134
2037-26-5	Toluene-d8 (Surr)	98		69-122
1868-53-7	Dibromofluoromethane (Surr)	100		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425546/8

Matrix: Water Lab File ID: U1913211.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 20:24

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.: 425546 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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913211.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Mar-2020 20:24:31 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-008
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Mar-2020 18:42:01 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: laveyt Date: 05-Mar-2020 20:51:25

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	1160074	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	939019	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.884	10.883	0.001	95	458174	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.049	5.049	0.000	93	313228	20.0	20.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	96	342749	20.0	19.1	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	92	1099930	20.0	19.5	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	94	374720	20.0	17.7	
9 Dichlorodifluoromethane	85		1.622					ND	
10 Chloromethane	50		1.823					ND	
11 Butadiene	54		1.918					ND	
12 Vinyl chloride	62		1.930					ND	
14 1-Chloro-1-fluoroethane TI	47		2.215					ND	
13 Bromomethane	94		2.227					ND	
15 Chloroethane	64		2.321					ND	
16 Dichlorofluoromethane	67		2.511					ND	
17 Trichlorofluoromethane	101		2.570					ND	
18 Ethyl ether	59		2.820					ND	
19 Acrolein	56		2.938					ND	
20 1,1-Dichloroethene	61		3.045					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.069					ND	
22 Acetone	43	3.081	3.080	0.000	96	9039		1.99	
23 Methylal	45		3.092					ND	
24 Iodomethane	142		3.187					ND	
25 Carbon disulfide	76		3.258					ND	
26 Acetonitrile	41		3.341					ND	
27 3-Chloro-1-propene	41		3.377					ND	
28 Methyl acetate	43		3.389					ND	
29 Methylene Chloride	49		3.484					ND	
30 2-Methyl-2-propanol	59		3.578					ND	
31 Acrylonitrile	53	3.709	3.697	0.012	44	996		0.1708	
32 trans-1,2-Dichloroethene	61		3.744					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		3.994					ND	
35 1,1-Dichloroethane	63		4.112					ND	
36 Vinyl acetate	43		4.160					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	
40 2-Butanone (MEK)	72		4.634					ND	
42 2,2-Dichloropropane	77		4.634					ND	
43 Propionitrile	54		4.681					ND	
44 Ethyl acetate	43		4.693					ND	
45 Methacrylonitrile	41		4.824					ND	
46 Chlorobromomethane	49		4.847					ND	
47 Tetrahydrofuran	42		4.895					ND	
48 Chloroform	83		4.907					ND	
49 1,1,1-Trichloroethane	97		5.096					ND	
50 Cyclohexane	84		5.144					ND	
52 Carbon tetrachloride	117		5.239					ND	
51 1,1-Dichloropropene	75		5.239					ND	
53 Isobutyl alcohol	41		5.298					ND	
54 Benzene	78		5.417					ND	
55 1,2-Dichloroethane	62		5.428					ND	
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		6.176					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	
72 trans-1,3-Dichloropropene	75		7.361					ND	
73 Ethyl methacrylate	69		7.444					ND	
74 1,1,2-Trichloroethane	97		7.539					ND	
76 1,3-Dichloropropane	76		7.705					ND	
75 Tetrachloroethene	166		7.705					ND	
77 2-Hexanone	43		7.776					ND	
78 n-Butyl acetate	43		7.895					ND	
79 Chlorodibromomethane	129		7.931					ND	
80 Tetrahydrothiophene	60		7.931					ND	
81 Ethylene Dibromide	107		8.049					ND	
82 1-Chlorohexane	91		8.488					ND	
83 Chlorobenzene	112		8.535					ND	
84 1,1,1,2-Tetrachloroethane	131		8.607					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		9.520					ND	
92 1,4-Dichlorobutane	55		9.614					ND	
91 Cyclohexanone	55		9.626					ND	
93 1,1,2,2-Tetrachloroethane	83		9.816					ND	
95 Bromobenzene	156		9.840					ND	
96 1,2,3-Trichloropropane	110		9.875					ND	
97 trans-1,4-Dichloro-2-buten	53		9.875					ND	
98 N-Propylbenzene	120		9.947					ND	
100 2-Chlorotoluene	126		10.041					ND	
94 3-Ethyltoluene	105		10.041					ND	
101 1,3,5-Trimethylbenzene	105		10.124					ND	
102 4-Chlorotoluene	126		10.160					ND	
99 2-Ethyltoluene	105		10.338					ND	
103 tert-Butylbenzene	119		10.468					ND	
104 Pentachloroethane	167		10.492					ND	
105 1,2,4-Trimethylbenzene	105		10.528					ND	
106 sec-Butylbenzene	105		10.706					ND	
107 1,3-Dichlorobenzene	146		10.824					ND	
108 4-Isopropyltoluene	119		10.848					ND	
109 1,4-Dichlorobenzene	146		10.919					ND	
110 1,2,3-Trimethylbenzene	105		10.966					ND	
111 Benzyl chloride	91		11.049					ND	
112 n-Butylbenzene	91		11.287					ND	
113 1,2-Dichlorobenzene	146		11.310					ND	
114 1,2-Dibromo-3-Chloropropan	157		12.129					ND	
115 1,3,5-Trichlorobenzene	180		12.366					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	
120 2-Methylnaphthalene	142		14.631					ND	
121 Epichlorohydrin	1		-0.010					ND	
122 Ethylene oxide	1		-0.010					ND	
123 Propene oxide	1		-0.010					ND	
S 124 Total BTEX	1		-0.010					ND	
S 125 Trihalomethanes, Total	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	

Reagents:

vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

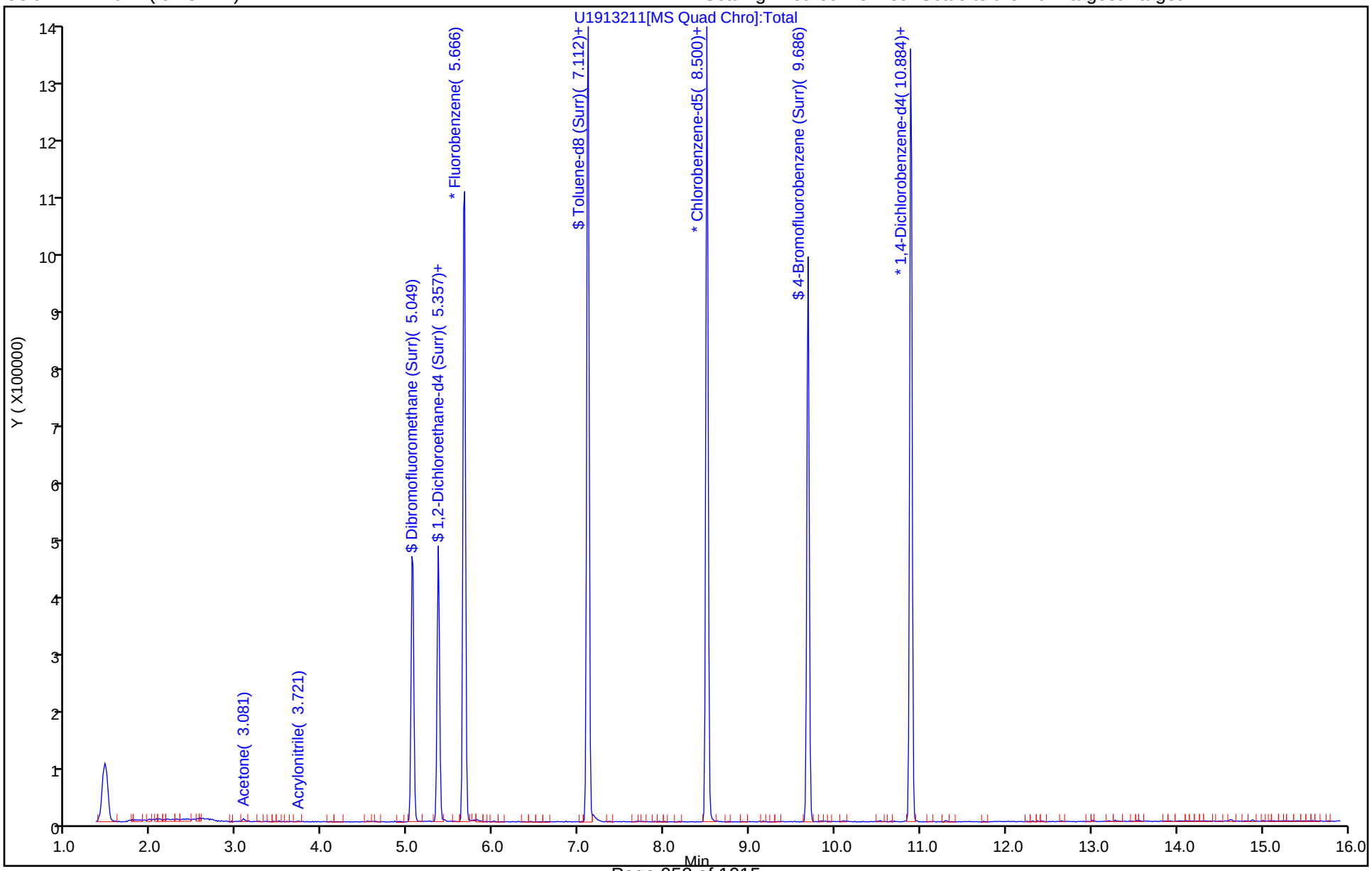
Report Date: 05-Mar-2020 20:51:26 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913211.d

Injection Date:	05-Mar-2020 20:24:31	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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913211.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Mar-2020 20:24:31 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-008
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Mar-2020 18:42:01 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: laveyt Date: 05-Mar-2020 20:51:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.1	100.30
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	19.1	95.56
$ 6 Toluene-d8 (Surr)	20.0	19.5	97.67
$ 7 4-Bromofluorobenzene (Surr)	20.0	17.7	88.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425629/8

Matrix: Water Lab File ID: UXM27181.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 12:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.14
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	1.0	U	1.0	0.41
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.17
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.54
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.24
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.14
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.91
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.15
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.21
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.26
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.15
591-78-6	2-Hexanone	5.0	U	5.0	0.54
108-86-1	Bromobenzene	1.0	U	1.0	0.12
74-97-5	Bromochloromethane	1.0	U	1.0	0.14
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.090
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.13
67-64-1	Acetone	5.0	U	5.0	5.4
71-43-2	Benzene	1.0	U	1.0	0.13
75-25-2	Bromoform	1.0	U	1.0	0.76
74-83-9	Bromomethane	1.0	U	1.0	0.42
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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425629/8

Matrix: Water Lab File ID: UXM27181.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 12:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	1.0	U	1.0	0.13
74-87-3	Chloromethane	1.0	U	1.0	0.20
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
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.83
74-95-3	Dibromomethane	1.0	U	1.0	0.090
75-27-4	Bromodichloromethane	1.0	U	1.0	0.17
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.35
100-41-4	Ethylbenzene	1.0	U	1.0	0.11
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12
108-20-3	Diisopropyl ether	5.0	U	5.0	0.17
91-20-3	Naphthalene	1.0	U	1.0	0.32
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.080
104-51-8	n-Butylbenzene	1.0	U	1.0	0.14
98-82-8	Isopropylbenzene	1.0	U	1.0	0.090
103-65-1	n-Propylbenzene	1.0	U	1.0	0.15
78-93-3	2-Butanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.42
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.070
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.11
75-09-2	Methylene Chloride	5.0	U	5.0	2.6
95-47-6	o-Xylene	1.0	U	1.0	0.090
100-42-5	Styrene	1.0	U	1.0	0.10
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.15
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.14
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
79-01-6	Trichloroethene	1.0	U	1.0	0.10
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.45
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.50	U	0.50	0.20
75-65-0	tert-Butyl alcohol	20	U	20	1.7
1330-20-7	Xylenes, Total	2.0	U	2.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425629/8

Matrix: Water Lab File ID: UXM27181.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 12:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Dibromochloromethane	1.0	U	1.0	0.39

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		75-130
460-00-4	4-Bromofluorobenzene (Surr)	107		47-134
2037-26-5	Toluene-d8 (Surr)	93		69-122
1868-53-7	Dibromofluoromethane (Surr)	112		78-129

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

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-425629/8

Matrix: Water Lab File ID: UXM27181.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 12:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

Number TICs Found: 1 TIC Result Total: 3.84

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.58	3.84	T J	

FORM I-TIC 8260C

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27181.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 06-Mar-2020 12:56:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-008
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 13:55:23 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 13:55:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.940	5.928	0.012	99	1083381	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	824336	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	396607	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	253309	20.0	22.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	295697	20.0	20.1	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	1007877	20.0	18.6	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	88	399547	20.0	21.4	
9 Dichlorodifluoromethane	85		1.754					ND	
10 Chloromethane	50		1.956					ND	
11 Vinyl chloride	62		2.074					ND	
12 Butadiene	54		2.122					ND	
13 Bromomethane	94	2.430	2.418	0.012	80	1003		0.0656	
14 Chloroethane	64		2.537					ND	
123 Ethylene oxide	44	2.620	2.608	0.012	59	2409		NC	
15 Dichlorofluoromethane	67		2.774					ND	
16 Trichlorofluoromethane	101		2.810					ND	
17 Ethyl ether	59		3.082					ND	
120 Propene oxide	58		3.203					ND	
18 Acrolein	56		3.225					ND	
19 1,1-Dichloroethene	96		3.320					ND	
20 1,1,2-Trichloro-1,2,2-trif	151		3.331					ND	
21 Acetone	58		3.355					ND	
23 Iodomethane	142		3.474					ND	
24 Carbon disulfide	76		3.533					ND	
25 Acetonitrile	41		3.628					ND	
22 Methylal	45		3.629					ND	
27 Methyl acetate	43		3.652					ND	
26 3-Chloro-1-propene	41		3.675					ND	
28 Methylene Chloride	84		3.794					ND	
29 2-Methyl-2-propanol	59		3.877					ND	
30 Acrylonitrile	53		4.007					ND	
31 Methyl tert-butyl ether	73		4.031					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		4.043					ND	
33 Hexane	57		4.280					ND	
35 Vinyl acetate	43		4.422					ND	
34 1,1-Dichloroethane	63		4.434					ND	
36 Isopropyl ether	87		4.458					ND	
37 2-Chloro-1,3-butadiene	53		4.505					ND	
38 Tert-butyl ethyl ether	59		4.766					ND	
40 2-Butanone (MEK)	72		4.921					ND	
39 cis-1,2-Dichloroethene	96		4.932					ND	
43 Ethyl acetate	43		4.944					ND	
41 2,2-Dichloropropane	77		4.944					ND	
42 Propionitrile	54		4.980					ND	
44 Methacrylonitrile	41		5.110					ND	
45 Chlorobromomethane	128		5.146					ND	
46 Tetrahydrofuran	42		5.146					ND	
47 Chloroform	83		5.229					ND	
48 1,1,1-Trichloroethane	97		5.371					ND	
49 Cyclohexane	56		5.430					ND	
51 Carbon tetrachloride	117		5.513					ND	
50 1,1-Dichloropropene	75		5.513					ND	
52 Isobutyl alcohol	41		5.561					ND	
54 Benzene	78		5.679					ND	
53 1,2-Dichloroethane	62		5.727					ND	
163 Isooctane	57		5.774					ND	
55 Tert-amyl methyl ether	73		5.774					ND	
56 n-Heptane	57		5.905					ND	U
57 n-Butanol	56		6.130					ND	
58 Trichloroethene	130		6.249					ND	
59 Ethyl acrylate	55		6.296					ND	
60 Methylcyclohexane	83		6.450					ND	
61 1,2-Dichloropropane	63		6.474					ND	
62 Methyl methacrylate	41		6.498					ND	
64 1,4-Dioxane	88		6.521					ND	
63 Dibromomethane	93		6.545					ND	
65 Dichlorobromomethane	83		6.699					ND	
66 2-Nitropropane	41		6.889					ND	
67 2-Chloroethyl vinyl ether	63		6.925					ND	
121 Epichlorohydrin	57		6.948					ND	
68 cis-1,3-Dichloropropene	75		7.079					ND	
69 4-Methyl-2-pentanone (MIBK	43		7.197					ND	
70 Toluene	91		7.375					ND	
71 trans-1,3-Dichloropropene	75		7.577					ND	
72 Ethyl methacrylate	69		7.612					ND	
73 1,1,2-Trichloroethane	97		7.767					ND	
75 Tetrachloroethene	164		7.850					ND	
74 1,3-Dichloropropane	76		7.909					ND	
76 2-Hexanone	43		7.944					ND	
79 Tetrahydrothiophene	60		8.021					ND	
77 n-Butyl acetate	43		8.039					ND	
78 Chlorodibromomethane	129		8.110					ND	
80 Ethylene Dibromide	107		8.241					ND	
81 1-Chlorohexane	91		8.656					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		8.692					ND	
83 1,1,1,2-Tetrachloroethane	131		8.763					ND	
84 Ethylbenzene	106		8.775					ND	
85 m-Xylene & p-Xylene	106		8.893					ND	
86 o-Xylene	106		9.261					ND	
87 Styrene	104		9.284					ND	
88 Bromoform	173		9.462					ND	
89 Isopropylbenzene	105		9.616					ND	
90 1,4-Dichlorobutane	55		9.628					ND	
91 Cyclohexanone	55		9.723					ND	U
92 1,1,2,2-Tetrachloroethane	83		9.913					ND	
93 Bromobenzene	156		9.937					ND	
94 trans-1,4-Dichloro-2-buten	53		9.949					ND	
95 1,2,3-Trichloropropane	110		9.972					ND	
96 N-Propylbenzene	120		10.020					ND	
97 2-Chlorotoluene	126		10.115					ND	
99 1,3,5-Trimethylbenzene	105		10.198					ND	
100 4-Chlorotoluene	126		10.233					ND	
98 3-Ethyltoluene	105		10.411					ND	
101 2-Ethyltoluene	105		10.411					ND	
102 tert-Butylbenzene	119		10.506					ND	
103 Pentachloroethane	167		10.553					ND	
104 1,2,4-Trimethylbenzene	105		10.565					ND	
105 sec-Butylbenzene	105		10.731					ND	
106 1,3-Dichlorobenzene	146		10.862					ND	
107 4-Isopropyltoluene	119		10.885					ND	
108 1,4-Dichlorobenzene	146		10.956					ND	
109 1,2,3-Trimethylbenzene	105		10.980					ND	
110 Benzyl chloride	126		11.075					ND	
111 n-Butylbenzene	91		11.289					ND	
112 1,2-Dichlorobenzene	146		11.324					ND	
113 1,2-Dibromo-3-Chloropropan	157		12.107					ND	
114 1,3,5-Trichlorobenzene	180		12.296					ND	
115 1,2,4-Trichlorobenzene	180		12.937					ND	
116 Hexachlorobutadiene	225		13.091					ND	
117 Naphthalene	128		13.233					ND	
118 1,2,3-Trichlorobenzene	180		13.482					ND	
119 2-Methylnaphthalene	142		14.692					ND	
162 1-Methylnaphthalene	142		14.965					ND	
126 Butyl Methacrylate TIC	1		0.520					ND	
S 158 Total BTEX	1		0.520					ND	
S 134 Trihalomethanes, Total	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_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

Eurofins TestAmerica, Canton
Tentatively Identified Quantitation Report

Data File:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27181.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	06-Mar-2020 12:56:30	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0096389-008				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	06-Mar-2020 13:55:23	Calib Date:	07-Feb-2020 23:28:30		
Tic RT Window:	1.400 -0.000	Response:	area		
Quant By:	Nearest ISTD	Quant LOD:	10.00000		
MS Library:	\\chromna\Canton\Database\NIST98.L				
Min. Match:	50				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX0320				
First Level Reviewer: bosworthh		Date:	06-Mar-2020 13:55:23		

Tentative Identified Compound Results

RT	Area	Amount ug/l	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
		Unknown						
1.576	418773	3.84	1					

Quantitation Compounds

Compound	RT	Area	Amount ug/l
* 1 Fluorobenzene	5.929	2183838	20.0

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

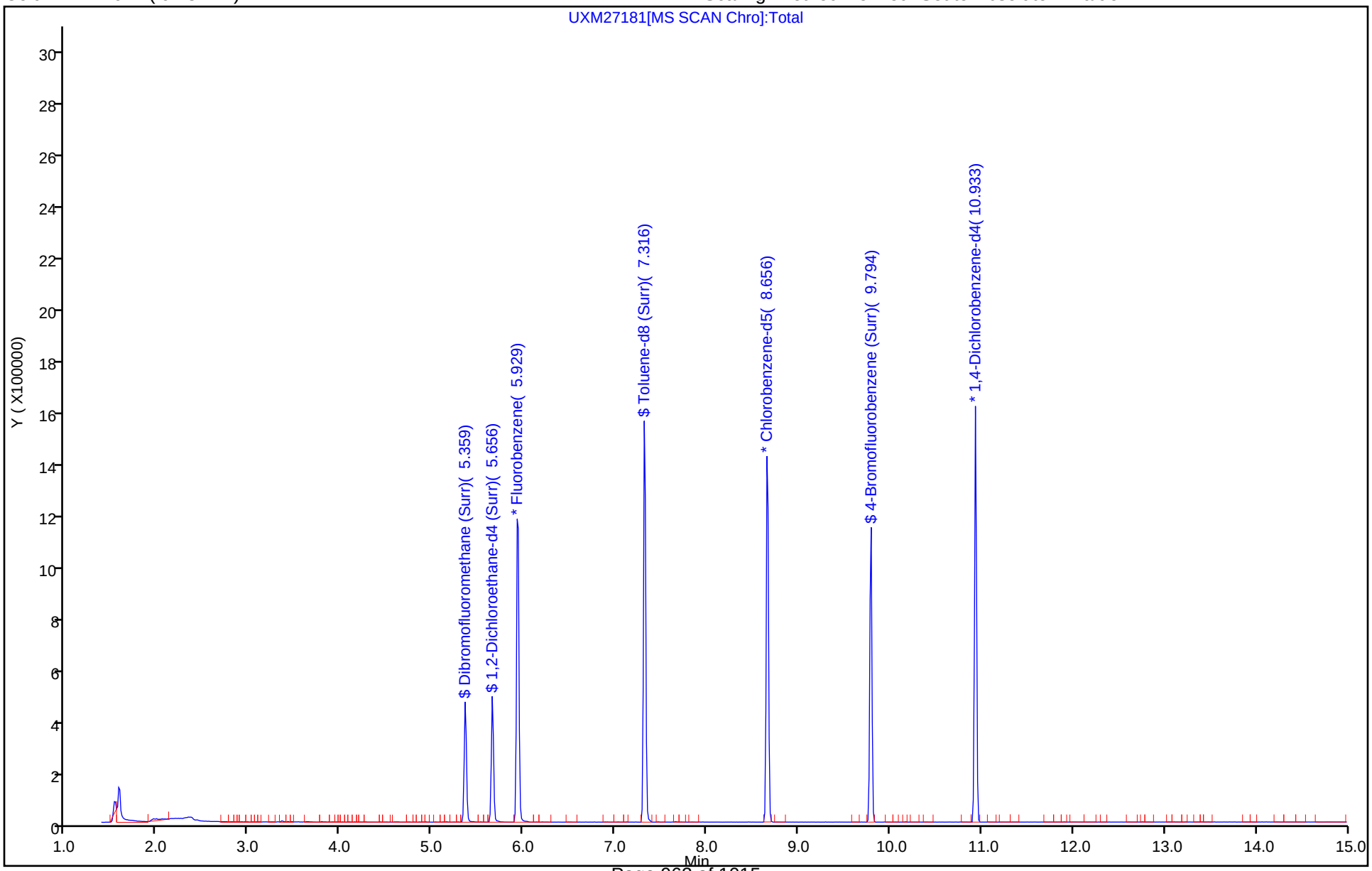
Report Date: 06-Mar-2020 13:55:24 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27181.D

Injection Date:	06-Mar-2020 12:56:30	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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27181.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 06-Mar-2020 12:56:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-008
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 13:55:23 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 13:55:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	22.4	112.11
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	20.1	100.60
$ 6 Toluene-d8 (Surr)	20.0	18.6	93.21
$ 7 4-Bromofluorobenzene (Surr)	20.0	21.4	107.08

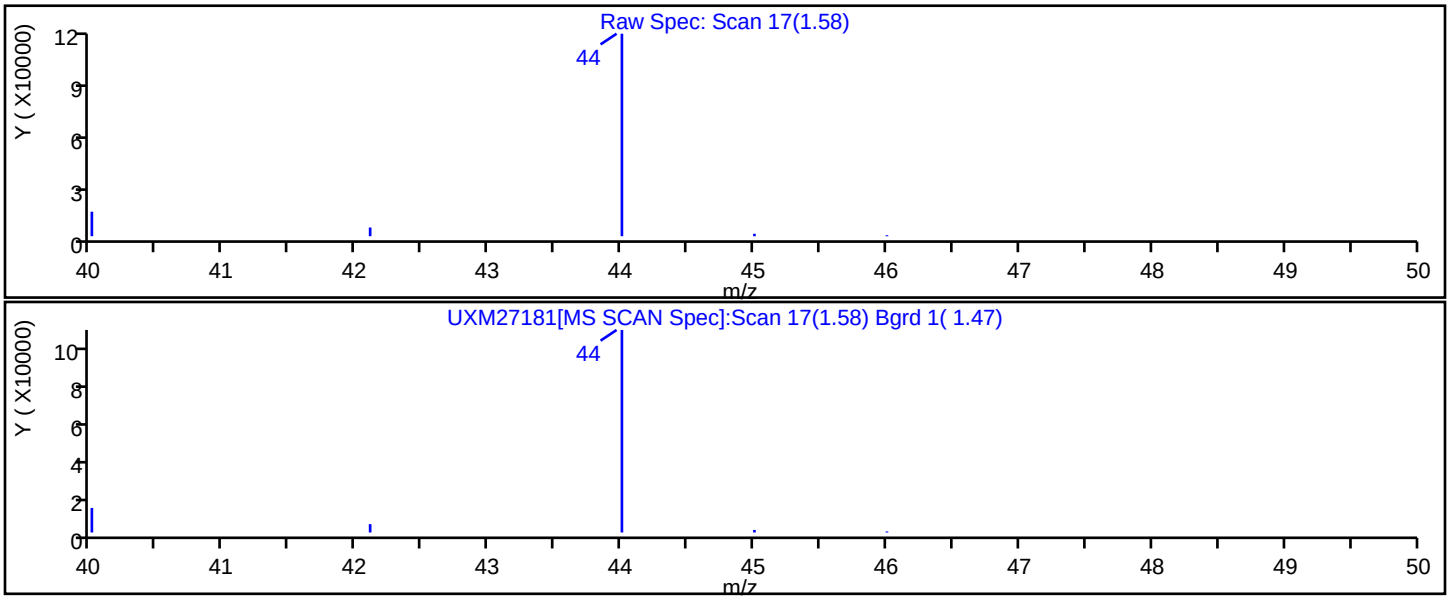
Report Date: 06-Mar-2020 13:55:24 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27181.D

Injection Date:	06-Mar-2020 12:56:30	Instrument ID:	A3UX16		
Lims ID:	MB				
Client ID:					
Operator ID:	001765	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_16	Limit Group:	MSV 8260C ICAL		
Column:		Detector	MS SCAN		

No Library Matches Found above the Threshold: 50



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-425546/5

Matrix: Water Lab File ID: U1913208.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 19:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	19.9		1.0	0.14
71-55-6	1,1,1-Trichloroethane	18.4		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	22.2		1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	20.4		1.0	0.41
75-34-3	1,1-Dichloroethane	19.7		1.0	0.17
75-35-4	1,1-Dichloroethene	19.9		1.0	0.19
563-58-6	1,1-Dichloropropene	20.0		1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	14.8		1.0	0.54
96-18-4	1,2,3-Trichloropropane	21.7		1.0	0.24
120-82-1	1,2,4-Trichlorobenzene	12.5		1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	21.1		1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		5.0	0.91
95-50-1	1,2-Dichlorobenzene	19.2		1.0	0.15
107-06-2	1,2-Dichloroethane	18.6		1.0	0.21
78-87-5	1,2-Dichloropropane	19.2		1.0	0.15
541-73-1	1,3-Dichlorobenzene	19.1		1.0	0.15
142-28-9	1,3-Dichloropropane	19.7		1.0	0.21
106-46-7	1,4-Dichlorobenzene	18.7		1.0	0.16
594-20-7	2,2-Dichloropropane	17.4		1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	17.8		10	0.26
95-49-8	2-Chlorotoluene	22.2		1.0	0.15
591-78-6	2-Hexanone	31.4		5.0	0.54
108-86-1	Bromobenzene	19.7		1.0	0.12
74-97-5	Bromochloromethane	17.3		1.0	0.14
106-43-4	4-Chlorotoluene	21.4		1.0	0.090
99-87-6	p-Isopropyltoluene	20.2		1.0	0.13
67-64-1	Acetone	38.1		5.0	5.4
71-43-2	Benzene	20.5		1.0	0.13
75-25-2	Bromoform	16.9		1.0	0.76
74-83-9	Bromomethane	20.6		1.0	0.42
75-15-0	Carbon disulfide	19.4		1.0	0.28
56-23-5	Carbon tetrachloride	18.7		1.0	0.26
108-90-7	Chlorobenzene	20.2		1.0	0.14
75-00-3	Chloroethane	20.0		1.0	0.83
67-66-3	Chloroform	19.9		1.0	0.13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-425546/5

Matrix: Water Lab File ID: U1913208.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 19:16

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.: 425546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	16.2		1.0	0.20
156-59-2	cis-1,2-Dichloroethene	20.2		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	19.3		1.0	0.61
87-68-3	Hexachlorobutadiene	10.2		1.0	0.83
74-95-3	Dibromomethane	16.9		1.0	0.090
75-27-4	Bromodichloromethane	19.5		1.0	0.17
75-71-8	Dichlorodifluoromethane	14.1		1.0	0.35
100-41-4	Ethylbenzene	20.2		1.0	0.11
106-93-4	1,2-Dibromoethane	18.6		1.0	0.12
91-20-3	Naphthalene	16.5		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	20.9		2.0	0.080
104-51-8	n-Butylbenzene	18.3		1.0	0.14
98-82-8	Isopropylbenzene	19.8		1.0	0.090
103-65-1	n-Propylbenzene	21.6		1.0	0.15
78-93-3	2-Butanone	36.0		5.0	1.2
108-10-1	4-Methyl-2-pentanone	31.8		5.0	0.42
135-98-8	sec-Butylbenzene	20.3		1.0	0.13
1634-04-4	Methyl tert-butyl ether	17.4		1.0	0.070
75-09-2	Methylene Chloride	17.6		5.0	2.6
95-47-6	o-Xylene	20.6		1.0	0.090
100-42-5	Styrene	20.5		1.0	0.10
98-06-6	tert-Butylbenzene	20.4		1.0	0.14
127-18-4	Tetrachloroethene	18.1		1.0	0.15
108-88-3	Toluene	20.8		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	19.4		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	16.7		1.0	0.67
79-01-6	Trichloroethene	19.9		1.0	0.10
75-69-4	Trichlorofluoromethane	17.4		1.0	0.45
108-05-4	Vinyl acetate	17.5		2.0	0.19
75-01-4	Vinyl chloride	16.6		0.50	0.20
75-65-0	tert-Butyl alcohol	186		20	1.7
1330-20-7	Xylenes, Total	41.5		2.0	0.15
124-48-1	Dibromochloromethane	19.8		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-425546/5

Matrix: Water Lab File ID: U1913208.d

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/05/2020 19:16

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.: 425546 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		75-130
460-00-4	4-Bromofluorobenzene (Surr)	93		47-134
2037-26-5	Toluene-d8 (Surr)	101		69-122
1868-53-7	Dibromofluoromethane (Surr)	97		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913208.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 05-Mar-2020 19:16:44 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-005
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Mar-2020 17:34:56 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: laveyt Date: 05-Mar-2020 19:36:26

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	1207880	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.500	8.500	0.000	84	956803	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.883	10.883	0.000	91	470957	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	111	5.061	5.049	0.012	93	316089	20.0	19.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.357	5.357	0.000	99	336671	20.0	18.0	
$ 6 Toluene-d8 (Surr)	98	7.112	7.112	0.000	92	1157043	20.0	20.2	
$ 7 4-Bromofluorobenzene (Surr	95	9.686	9.686	0.000	94	402485	20.0	18.6	
9 Dichlorodifluoromethane	85	1.622	1.622	0.000	100	328495	20.0	14.1	
10 Chloromethane	50	1.835	1.823	0.012	100	282704	20.0	16.2	
11 Butadiene	54	1.918	1.918	0.000	86	263086	20.0	15.1	
12 Vinyl chloride	62	1.930	1.930	0.000	98	299189	20.0	16.6	
13 Bromomethane	94	2.238	2.227	0.011	91	291006	20.0	20.6	
15 Chloroethane	64	2.321	2.321	0.000	99	223361	20.0	20.0	
16 Dichlorofluoromethane	67	2.511	2.511	0.000	98	553493	20.0	20.0	
17 Trichlorofluoromethane	101	2.570	2.570	0.000	99	525157	20.0	17.4	
18 Ethyl ether	59	2.819	2.820	-0.001	85	224722	20.0	20.7	
19 Acrolein	56	2.938	2.938	0.000	99	300868	100.0	112.0	
20 1,1-Dichloroethene	61	3.057	3.045	0.012	98	430563	20.0	19.9	
21 1,1,2-Trichloro-1,2,2-trif	101	3.068	3.069	-0.001	93	316288	20.0	20.4	
22 Acetone	43	3.080	3.080	0.000	99	180407	40.0	38.1	
24 Iodomethane	142	3.223	3.187	0.036	99	558452	20.0	19.9	
25 Carbon disulfide	76	3.270	3.258	0.012	99	879841	20.0	19.4	
27 3-Chloro-1-propene	41	3.377	3.377	0.000	85	315470	20.0	14.8	
28 Methyl acetate	43	3.389	3.389	0.000	95	456232	40.0	32.5	
29 Methylene Chloride	49	3.483	3.484	-0.001	83	303271	20.0	17.6	
30 2-Methyl-2-propanol	59	3.578	3.578	0.000	97	303846	200.0	185.8	
31 Acrylonitrile	53	3.709	3.697	0.012	98	1174913	200.0	193.5	
32 trans-1,2-Dichloroethene	61	3.744	3.744	0.000	80	397272	20.0	19.4	
33 Methyl tert-butyl ether	73	3.744	3.744	0.000	93	729662	20.0	17.4	
34 Hexane	57	3.993	3.994	-0.001	87	377276	20.0	17.7	
35 1,1-Dichloroethane	63	4.112	4.112	0.000	97	482159	20.0	19.7	
36 Vinyl acetate	43	4.159	4.160	-0.001	97	490396	20.0	17.5	

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	81	352875	20.0	20.2	
40 2-Butanone (MEK)	72	4.634	4.634	0.000	84	102787	40.0	36.0	
42 2,2-Dichloropropane	77	4.634	4.634	0.000	88	255738	20.0	17.4	
46 Chlorobromomethane	49	4.847	4.847	0.000	82	203762	20.0	17.3	
47 Tetrahydrofuran	42	4.895	4.895	0.000	80	192371	40.0	30.1	
48 Chloroform	83	4.918	4.907	0.011	93	531546	20.0	19.9	
49 1,1,1-Trichloroethane	97	5.096	5.096	0.000	97	463895	20.0	18.4	
50 Cyclohexane	84	5.144	5.144	0.000	82	472662	20.0	20.5	
52 Carbon tetrachloride	117	5.239	5.239	0.000	98	453994	20.0	18.7	
51 1,1-Dichloropropene	75	5.239	5.239	0.000	99	424254	20.0	20.0	
53 Isobutyl alcohol	41	5.298	5.298	0.000	93	307802	500.0	464.1	
54 Benzene	78	5.416	5.417	-0.001	95	1176868	20.0	20.5	
55 1,2-Dichloroethane	62	5.428	5.428	0.000	99	404846	20.0	18.6	
57 n-Heptane	57	5.642	5.642	0.000	74	185983	20.0	13.1	
59 Trichloroethene	130	5.998	5.998	0.000	94	380378	20.0	19.9	
61 Methylcyclohexane	83	6.175	6.176	-0.001	87	496161	20.0	17.9	
62 1,2-Dichloropropane	63	6.199	6.199	0.000	95	256176	20.0	19.2	
64 Dibromomethane	174	6.306	6.306	0.000	93	231233	20.0	16.9	
65 1,4-Dioxane	88	6.306	6.306	0.000	36	88323	400.0	612.0	
66 Dichlorobromomethane	83	6.436	6.436	0.000	99	408885	20.0	19.5	
68 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	92	189972	20.0	17.8	
69 cis-1,3-Dichloropropene	75	6.851	6.851	0.000	96	449677	20.0	19.3	
70 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	93	614891	40.0	31.8	
71 Toluene	91	7.172	7.172	0.000	98	1347283	20.0	20.8	
72 trans-1,3-Dichloropropene	75	7.361	7.361	0.000	91	386013	20.0	16.7	
73 Ethyl methacrylate	69	7.444	7.444	0.000	85	391351	20.0	18.8	
74 1,1,2-Trichloroethane	97	7.539	7.539	0.000	90	278421	20.0	20.5	
76 1,3-Dichloropropane	76	7.705	7.705	0.000	86	452996	20.0	19.7	
75 Tetrachloroethene	166	7.705	7.705	0.000	98	372783	20.0	18.1	
77 2-Hexanone	43	7.776	7.776	0.000	92	473343	40.0	31.4	
79 Chlorodibromomethane	129	7.930	7.931	-0.001	89	340227	20.0	19.8	
81 Ethylene Dibromide	107	8.049	8.049	0.000	99	297141	20.0	18.6	
83 Chlorobenzene	112	8.535	8.535	0.000	98	894723	20.0	20.2	
84 1,1,1,2-Tetrachloroethane	131	8.606	8.607	-0.001	95	318253	20.0	19.9	
85 Ethylbenzene	106	8.630	8.630	0.000	98	466311	20.0	20.2	
86 m-Xylene & p-Xylene	106	8.749	8.749	0.000	99	589311	20.0	20.9	
87 o-Xylene	106	9.152	9.152	0.000	95	551644	20.0	20.6	
88 Styrene	104	9.164	9.164	0.000	94	940713	20.0	20.5	
89 Bromoform	173	9.354	9.354	0.000	96	236496	20.0	16.9	
90 Isopropylbenzene	105	9.520	9.520	0.000	95	1424478	20.0	19.8	
93 1,1,2,2-Tetrachloroethane	83	9.816	9.816	0.000	96	403679	20.0	22.2	
95 Bromobenzene	156	9.840	9.840	0.000	89	357047	20.0	19.7	
96 1,2,3-Trichloropropane	110	9.875	9.875	0.000	83	149345	20.0	21.7	
97 trans-1,4-Dichloro-2-buten	53	9.875	9.875	0.000	73	120848	20.0	18.7	
98 N-Propylbenzene	120	9.946	9.947	-0.001	98	393141	20.0	21.6	
100 2-Chlorotoluene	126	10.041	10.041	0.000	97	341474	20.0	22.2	
101 1,3,5-Trimethylbenzene	105	10.124	10.124	0.000	94	1127711	20.0	21.5	
102 4-Chlorotoluene	126	10.160	10.160	0.000	97	356056	20.0	21.4	
103 tert-Butylbenzene	119	10.468	10.468	0.000	90	1013036	20.0	20.4	
105 1,2,4-Trimethylbenzene	105	10.516	10.528	-0.012	95	1120635	20.0	21.1	
106 sec-Butylbenzene	105	10.705	10.706	-0.001	93	1362603	20.0	20.3	
107 1,3-Dichlorobenzene	146	10.824	10.824	0.000	98	633634	20.0	19.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 4-Isopropyltoluene	119	10.848	10.848	0.000	97	1185343	20.0	20.2	
109 1,4-Dichlorobenzene	146	10.919	10.919	0.000	95	644195	20.0	18.7	
112 n-Butylbenzene	91	11.286	11.287	-0.001	97	885182	20.0	18.3	
113 1,2-Dichlorobenzene	146	11.310	11.310	0.000	99	578462	20.0	19.2	
114 1,2-Dibromo-3-Chloropropan	157	12.128	12.129	-0.001	91	104916	20.0	18.2	
116 1,2,4-Trichlorobenzene	180	13.018	13.018	0.000	94	252353	20.0	12.5	
117 Hexachlorobutadiene	225	13.208	13.208	0.000	97	105697	20.0	10.2	
118 Naphthalene	128	13.279	13.279	0.000	97	915760	20.0	16.5	
119 1,2,3-Trichlorobenzene	180	13.540	13.540	0.000	96	267493	20.0	14.8	
S 124 Total BTEX	1				0		100.0	103.0	
S 125 Trihalomethanes, Total	1				0		80.0	76.0	
S 128 Xylenes, Total	106				0		40.0	41.5	

Reagents:

vmfasgw_00349	Amount Added:	16.00	Units: uL	
vmfasaw_00319	Amount Added:	16.00	Units: uL	
vmfaspw_00341	Amount Added:	16.00	Units: uL	
vm50ss_stk_00082	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00164	Amount Added:	0.00	Units:	Run Reagent
vm50is_stk_A_00006	Amount Added:	2.00	Units: uL	Run Reagent
vm40ml_vials_00014	Amount Added:	0.00	Units:	Run Reagent

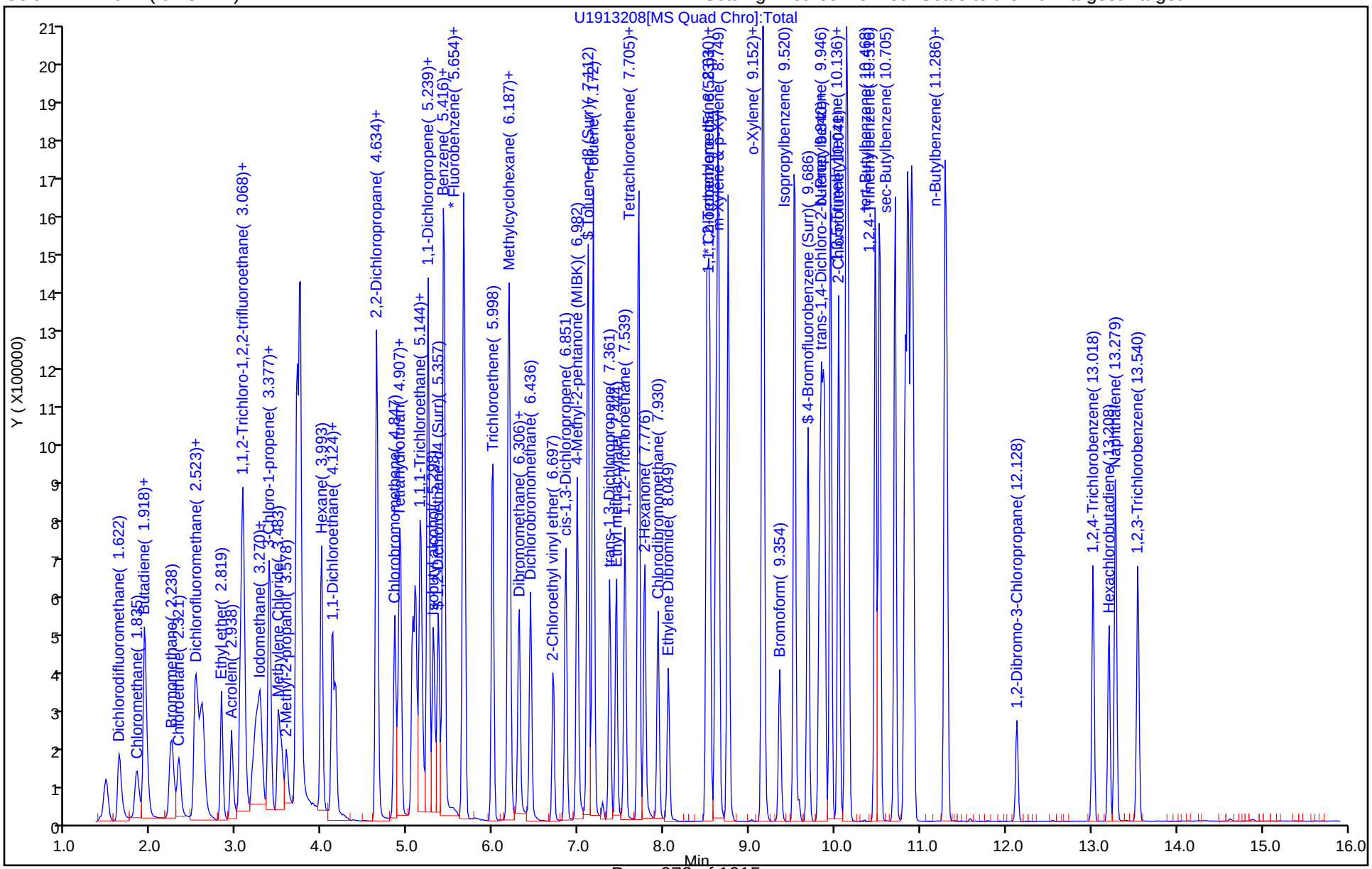
Report Date: 05-Mar-2020 19:36:28 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913208.d

Injection Date:	05-Mar-2020 19:16:44	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: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\U1913208.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 05-Mar-2020 19:16:44 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096368-005
Operator ID: 001904 Instrument ID: A3UX19

Method: \\chromna\Canton\ChromData\A3UX19\20200305-96368.b\8260_19.m
Limit Group: MSV 8260C ICAL
Last Update: 05-Mar-2020 17:34:56 Calib Date: 22-Jun-2019 06:01:27
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX19\20190621-88407.b\U1908059.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0328

First Level Reviewer: laveyt Date: 05-Mar-2020 19:36:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	19.4	97.21
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.0	90.15
$ 6 Toluene-d8 (Surr)	20.0	20.2	100.83
$ 7 4-Bromofluorobenzene (Surr)	20.0	18.6	93.21

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-425629/5

Matrix: Water Lab File ID: UXM27178.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 11:42

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	17.9		1.0	0.14
71-55-6	1,1,1-Trichloroethane	21.6		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	21.3		1.0	0.13
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroeth ane	24.4		1.0	0.41
75-34-3	1,1-Dichloroethane	22.0		1.0	0.17
75-35-4	1,1-Dichloroethene	23.1		1.0	0.19
563-58-6	1,1-Dichloropropene	21.0		1.0	0.14
87-61-6	1,2,3-Trichlorobenzene	21.5		1.0	0.54
96-18-4	1,2,3-Trichloropropane	21.1		1.0	0.24
120-82-1	1,2,4-Trichlorobenzene	20.9		1.0	0.26
95-63-6	1,2,4-Trimethylbenzene	21.0		1.0	0.070
96-12-8	1,2-Dibromo-3-Chloropropane	20.4		5.0	0.91
95-50-1	1,2-Dichlorobenzene	21.2		1.0	0.15
107-06-2	1,2-Dichloroethane	21.2		1.0	0.21
78-87-5	1,2-Dichloropropane	22.7		1.0	0.15
541-73-1	1,3-Dichlorobenzene	21.2		1.0	0.15
142-28-9	1,3-Dichloropropane	21.1		1.0	0.21
106-46-7	1,4-Dichlorobenzene	21.3		1.0	0.16
594-20-7	2,2-Dichloropropane	20.4		1.0	0.31
110-75-8	2-Chloroethyl vinyl ether	18.7		10	0.26
95-49-8	2-Chlorotoluene	21.2		1.0	0.15
591-78-6	2-Hexanone	38.5		5.0	0.54
108-86-1	Bromobenzene	21.6		1.0	0.12
74-97-5	Bromochloromethane	23.1		1.0	0.14
106-43-4	4-Chlorotoluene	21.4		1.0	0.090
99-87-6	p-Isopropyltoluene	20.7		1.0	0.13
67-64-1	Acetone	45.3		5.0	5.4
71-43-2	Benzene	22.2		1.0	0.13
75-25-2	Bromoform	18.6		1.0	0.76
74-83-9	Bromomethane	17.2		1.0	0.42
75-15-0	Carbon disulfide	21.6		1.0	0.28
56-23-5	Carbon tetrachloride	21.3		1.0	0.26
108-90-7	Chlorobenzene	21.4		1.0	0.14
75-00-3	Chloroethane	24.4		1.0	0.83
67-66-3	Chloroform	22.1		1.0	0.13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-425629/5

Matrix: Water Lab File ID: UXM27178.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 11:42

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.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	21.1		1.0	0.20
156-59-2	cis-1,2-Dichloroethene	23.0		1.0	0.16
10061-01-5	cis-1,3-Dichloropropene	21.3		1.0	0.61
87-68-3	Hexachlorobutadiene	21.0		1.0	0.83
74-95-3	Dibromomethane	22.5		1.0	0.090
75-27-4	Bromodichloromethane	21.8		1.0	0.17
75-71-8	Dichlorodifluoromethane	19.5		1.0	0.35
100-41-4	Ethylbenzene	20.9		1.0	0.11
106-93-4	1,2-Dibromoethane	21.4		1.0	0.12
91-20-3	Naphthalene	20.5		1.0	0.32
179601-23-1	m-Xylene & p-Xylene	21.2		2.0	0.080
104-51-8	n-Butylbenzene	20.4		1.0	0.14
98-82-8	Isopropylbenzene	21.2		1.0	0.090
103-65-1	n-Propylbenzene	20.8		1.0	0.15
78-93-3	2-Butanone	43.1		5.0	1.2
108-10-1	4-Methyl-2-pentanone	42.0		5.0	0.42
135-98-8	sec-Butylbenzene	20.7		1.0	0.13
1634-04-4	Methyl tert-butyl ether	19.8		1.0	0.070
75-09-2	Methylene Chloride	21.8		5.0	2.6
95-47-6	o-Xylene	20.7		1.0	0.090
100-42-5	Styrene	18.6		1.0	0.10
98-06-6	tert-Butylbenzene	20.5		1.0	0.14
127-18-4	Tetrachloroethene	22.1		1.0	0.15
108-88-3	Toluene	21.1		1.0	0.14
156-60-5	trans-1,2-Dichloroethene	23.0		1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	18.5		1.0	0.67
79-01-6	Trichloroethene	22.6		1.0	0.10
75-69-4	Trichlorofluoromethane	23.5		1.0	0.45
108-05-4	Vinyl acetate	22.4		2.0	0.19
75-01-4	Vinyl chloride	22.8		0.50	0.20
75-65-0	tert-Butyl alcohol	175		20	1.7
1330-20-7	Xylenes, Total	41.9		2.0	0.15
124-48-1	Dibromochloromethane	21.2		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-425629/5

Matrix: Water Lab File ID: UXM27178.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 11:42

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.: 425629 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		75-130
460-00-4	4-Bromofluorobenzene (Surr)	112		47-134
2037-26-5	Toluene-d8 (Surr)	97		69-122
1868-53-7	Dibromofluoromethane (Surr)	104		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27178.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Mar-2020 11:42:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-005
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 09:59:54 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 12:07:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.928	0.001	99	1330626	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	964430	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	468550	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	287743	20.0	20.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	333737	20.0	18.5	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	1223712	20.0	19.3	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	90	487743	20.0	22.3	
9 Dichlorodifluoromethane	85	1.754	1.754	0.000	100	371609	20.0	19.5	
10 Chloromethane	50	1.956	1.956	0.000	99	604487	20.0	21.1	
11 Vinyl chloride	62	2.075	2.074	0.000	98	661348	20.0	22.8	
12 Butadiene	54	2.122	2.122	0.000	92	578195	20.0	24.9	
13 Bromomethane	94	2.418	2.418	0.000	89	322388	20.0	17.2	
14 Chloroethane	64	2.537	2.537	0.000	99	371532	20.0	24.4	
15 Dichlorofluoromethane	67	2.774	2.774	0.000	97	741902	20.0	24.4	
16 Trichlorofluoromethane	101	2.810	2.810	0.000	97	564562	20.0	23.5	
17 Ethyl ether	59	3.082	3.082	0.000	91	294666	20.0	22.0	
18 Acrolein	56	3.225	3.225	0.000	99	304786	100.0	115.8	
19 1,1-Dichloroethene	96	3.320	3.320	0.000	98	338347	20.0	23.1	
20 1,1,2-Trichloro-1,2,2-trif	151	3.332	3.331	0.001	94	235736	20.0	24.4	
21 Acetone	58	3.367	3.355	0.012	100	61843	40.0	45.3	
23 Iodomethane	142	3.474	3.474	0.000	97	265135	20.0	15.9	
24 Carbon disulfide	76	3.533	3.533	0.000	99	1105208	20.0	21.6	
27 Methyl acetate	43	3.652	3.652	0.000	97	472671	40.0	40.6	
26 3-Chloro-1-propene	41	3.675	3.675	0.000	91	553911	20.0	21.3	
28 Methylene Chloride	84	3.794	3.794	0.000	91	387560	20.0	21.8	
29 2-Methyl-2-propanol	59	3.877	3.877	0.000	97	251626	200.0	175.0	
30 Acrylonitrile	53	4.007	4.007	0.000	100	1474776	200.0	223.8	
31 Methyl tert-butyl ether	73	4.031	4.031	0.000	96	948600	20.0	19.8	
32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	99	410170	20.0	23.0	
33 Hexane	57	4.292	4.280	0.012	90	571492	20.0	23.4	
35 Vinyl acetate	43	4.422	4.422	0.000	97	613808	20.0	22.4	
34 1,1-Dichloroethane	63	4.434	4.434	0.000	96	685140	20.0	22.0	

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	4.921	4.921	0.001	99	78625	40.0	43.1	
39 cis-1,2-Dichloroethene	96	4.944	4.932	0.012	82	435105	20.0	23.0	
41 2,2-Dichloropropane	77	4.944	4.944	0.000	89	544083	20.0	20.4	
45 Chlorobromomethane	128	5.146	5.146	0.000	98	170486	20.0	23.1	
46 Tetrahydrofuran	42	5.146	5.146	0.000	87	193723	40.0	41.8	
47 Chloroform	83	5.229	5.229	0.000	94	634069	20.0	22.1	
48 1,1,1-Trichloroethane	97	5.371	5.371	0.000	98	533751	20.0	21.6	
49 Cyclohexane	56	5.430	5.430	0.000	88	644929	20.0	22.7	
51 Carbon tetrachloride	117	5.513	5.513	0.000	83	429954	20.0	21.3	
50 1,1-Dichloropropene	75	5.513	5.513	0.000	95	525320	20.0	21.0	
52 Isobutyl alcohol	41	5.561	5.561	0.000	94	226194	500.0	516.7	
54 Benzene	78	5.679	5.679	0.000	96	1636330	20.0	22.2	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	97	479555	20.0	21.2	
56 n-Heptane	57	5.905	5.905	0.000	94	337635	20.0	22.5	
58 Trichloroethene	130	6.249	6.249	0.000	98	374179	20.0	22.6	
60 Methylcyclohexane	83	6.450	6.450	0.000	90	666154	20.0	22.0	
61 1,2-Dichloropropane	63	6.474	6.474	0.000	96	388854	20.0	22.7	
64 1,4-Dioxane	88	6.521	6.521	0.000	93	85612	400.0	433.2	
63 Dibromomethane	93	6.545	6.545	0.000	96	202385	20.0	22.5	
65 Dichlorobromomethane	83	6.699	6.699	0.000	99	438974	20.0	21.8	
67 2-Chloroethyl vinyl ether	63	6.925	6.925	0.000	92	206755	20.0	18.7	
68 cis-1,3-Dichloropropene	75	7.079	7.079	0.000	96	566143	20.0	21.3	
69 4-Methyl-2-pentanone (MIBK	43	7.197	7.197	0.000	96	528076	40.0	42.0	
70 Toluene	91	7.375	7.375	0.000	98	1671338	20.0	21.1	
71 trans-1,3-Dichloropropene	75	7.577	7.577	0.000	94	465971	20.0	18.5	
72 Ethyl methacrylate	69	7.612	7.612	0.000	88	383668	20.0	19.4	
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	91	298671	20.0	21.8	
75 Tetrachloroethene	164	7.850	7.850	0.000	96	280005	20.0	22.1	
74 1,3-Dichloropropane	76	7.909	7.909	0.000	89	564750	20.0	21.1	
76 2-Hexanone	43	7.944	7.944	0.000	94	354472	40.0	38.5	
78 Chlorodibromomethane	129	8.122	8.110	0.012	90	277760	20.0	21.2	
80 Ethylene Dibromide	107	8.241	8.241	0.000	98	287985	20.0	21.4	
82 Chlorobenzene	112	8.692	8.692	0.000	95	1021396	20.0	21.4	
83 1,1,1,2-Tetrachloroethane	131	8.763	8.763	0.000	92	312731	20.0	17.9	
84 Ethylbenzene	106	8.775	8.775	0.000	98	581916	20.0	20.9	
85 m-Xylene & p-Xylene	106	8.893	8.893	0.000	97	698339	20.0	21.2	
86 o-Xylene	106	9.261	9.261	0.000	97	668474	20.0	20.7	
87 Styrene	104	9.284	9.284	0.000	95	1138654	20.0	18.6	
88 Bromoform	173	9.462	9.462	0.000	94	155451	20.0	18.6	
89 Isopropylbenzene	105	9.617	9.616	0.000	95	1747419	20.0	21.2	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	94	378434	20.0	21.3	
93 Bromobenzene	156	9.937	9.937	0.000	97	375185	20.0	21.6	
94 trans-1,4-Dichloro-2-buten	53	9.949	9.949	0.000	82	115867	20.0	19.4	
95 1,2,3-Trichloropropane	110	9.972	9.972	0.000	83	119947	20.0	21.1	
96 N-Propylbenzene	120	10.020	10.020	0.000	99	489377	20.0	20.8	
97 2-Chlorotoluene	126	10.115	10.115	0.000	96	402038	20.0	21.2	
99 1,3,5-Trimethylbenzene	105	10.198	10.198	0.000	94	1454585	20.0	20.8	
100 4-Chlorotoluene	126	10.233	10.233	0.000	98	423867	20.0	21.4	
102 tert-Butylbenzene	119	10.506	10.506	0.000	93	1198170	20.0	20.5	
104 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	97	1456776	20.0	21.0	
105 sec-Butylbenzene	105	10.731	10.731	0.000	94	1866019	20.0	20.7	
106 1,3-Dichlorobenzene	146	10.862	10.862	0.000	98	743099	20.0	21.2	

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	10.885	10.885	0.000	97	1565726	20.0	20.7	
108 1,4-Dichlorobenzene	146	10.957	10.956	0.001	95	749726	20.0	21.3	
111 n-Butylbenzene	91	11.289	11.289	0.000	98	1434196	20.0	20.4	
112 1,2-Dichlorobenzene	146	11.324	11.324	0.000	97	677353	20.0	21.2	
113 1,2-Dibromo-3-Chloropropan	157	12.107	12.107	0.000	81	58257	20.0	20.4	
115 1,2,4-Trichlorobenzene	180	12.937	12.937	0.000	94	354239	20.0	20.9	
116 Hexachlorobutadiene	225	13.091	13.091	0.000	97	156381	20.0	21.0	
117 Naphthalene	128	13.233	13.233	0.000	97	1038737	20.0	20.5	
118 1,2,3-Trichlorobenzene	180	13.482	13.482	0.000	95	326836	20.0	21.5	
S 158 Total BTEX	1				0		100.0	106.0	
S 134 Trihalomethanes, Total	1				0		80.0	83.7	
S 133 Xylenes, Total	106				0		40.0	41.9	

Reagents:

vmfaspw_00341	Amount Added:	16.00	Units: uL	
vmfasgw_00349	Amount Added:	16.00	Units: uL	
vmfasaw_00319	Amount Added:	16.00	Units: uL	
vm50is_stk_a_00006	Amount Added:	2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added:	0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added:	2.00	Units: uL	Run Reagent

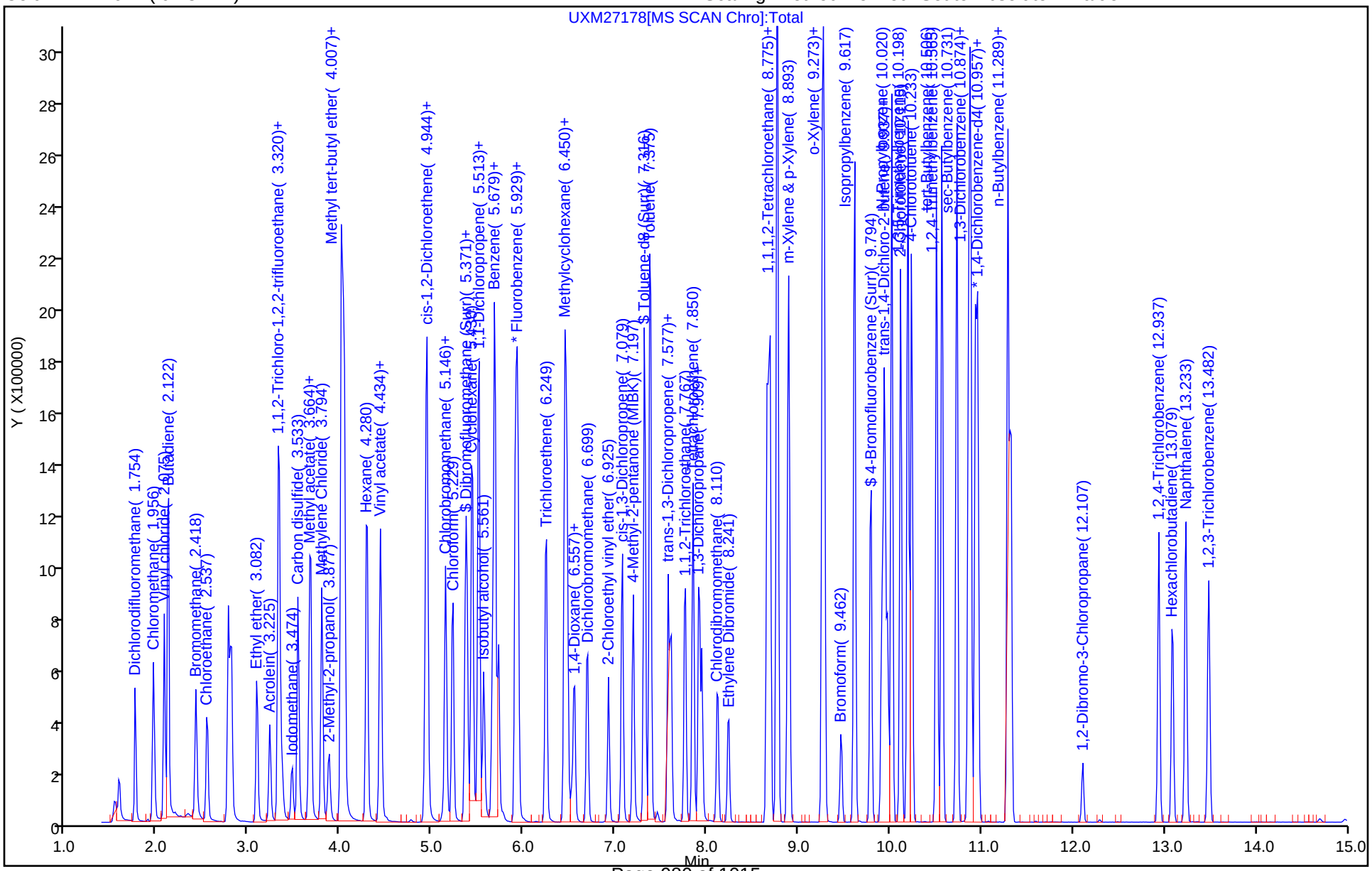
Report Date: 06-Mar-2020 12:07:08 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27178.D

Injection Date:	06-Mar-2020 11:42:30	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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27178.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Mar-2020 11:42:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0096389-005
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 09:59:54 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 12:07:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	20.7	103.68
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.5	92.45
$ 6 Toluene-d8 (Surr)	20.0	19.3	96.73
$ 7 4-Bromofluorobenzene (Surr)	20.0	22.3	111.73

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: 240-127080-E-3 MS

Matrix: Water Lab File ID: UXM27184.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 14:11

Soil Aliquot Vol: Dilution Factor: 20

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-34-5	1,1,2,2-Tetrachloroethane	1410		20	2.6
75-35-4	1,1-Dichloroethene	474		20	3.8
107-06-2	1,2-Dichloroethane	437		20	4.2
56-23-5	Carbon tetrachloride	435		20	5.2
67-66-3	Chloroform	652		20	2.6
156-59-2	cis-1,2-Dichloroethene	603		20	3.2
75-09-2	Methylene Chloride	534		100	52
127-18-4	Tetrachloroethene	468		20	3.0
156-60-5	trans-1,2-Dichloroethene	459		20	3.8
79-01-6	Trichloroethene	499		20	2.0
75-01-4	Vinyl chloride	464		10	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		75-130
460-00-4	4-Bromofluorobenzene (Surr)	113		47-134
2037-26-5	Toluene-d8 (Surr)	97		69-122
1868-53-7	Dibromofluoromethane (Surr)	106		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27184.D
Lims ID: 240-127080-E-3 MS
Client ID: EF1Q20-COMB-EFFLUENT
Sample Type: MS
Inject. Date: 06-Mar-2020 14:11:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 240-0096389-011
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:29:39 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 14:30:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.929	5.928	0.001	99	1174848	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	853084	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	97	427751	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	92	260643	20.0	21.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	297324	20.0	18.7	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	1084175	20.0	19.4	
$ 7 4-Bromofluorobenzene (Surr	95	9.795	9.794	0.001	90	435574	20.0	22.6	
11 Vinyl chloride	62	2.075	2.074	0.001	98	595094	20.0	23.2	
19 1,1-Dichloroethene	96	3.320	3.320	0.000	98	306555	20.0	23.7	
28 Methylene Chloride	84	3.794	3.794	0.000	93	419824	20.0	26.7	
32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	99	361547	20.0	23.0	
39 cis-1,2-Dichloroethene	96	4.933	4.932	0.001	81	503109	20.0	30.2	
47 Chloroform	83	5.229	5.229	0.000	94	824713	20.0	32.6	
51 Carbon tetrachloride	117	5.514	5.513	0.001	85	388383	20.0	21.8	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	97	436780	20.0	21.9	
58 Trichloroethene	130	6.249	6.249	0.000	98	365183	20.0	25.0	
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	91	545135	20.0	45.1	
75 Tetrachloroethene	164	7.850	7.850	0.000	95	261654	20.0	23.4	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	94	1141945	20.0	70.5	

Reagents:

vmfasgw_00349	Amount Added: 16.00	Units: uL	
vmfasaw_00319	Amount Added: 16.00	Units: uL	
vmfaspw_00341	Amount Added: 16.00	Units: uL	
vm50is_stk_a_00006	Amount Added: 2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added: 0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added: 2.00	Units: uL	Run Reagent

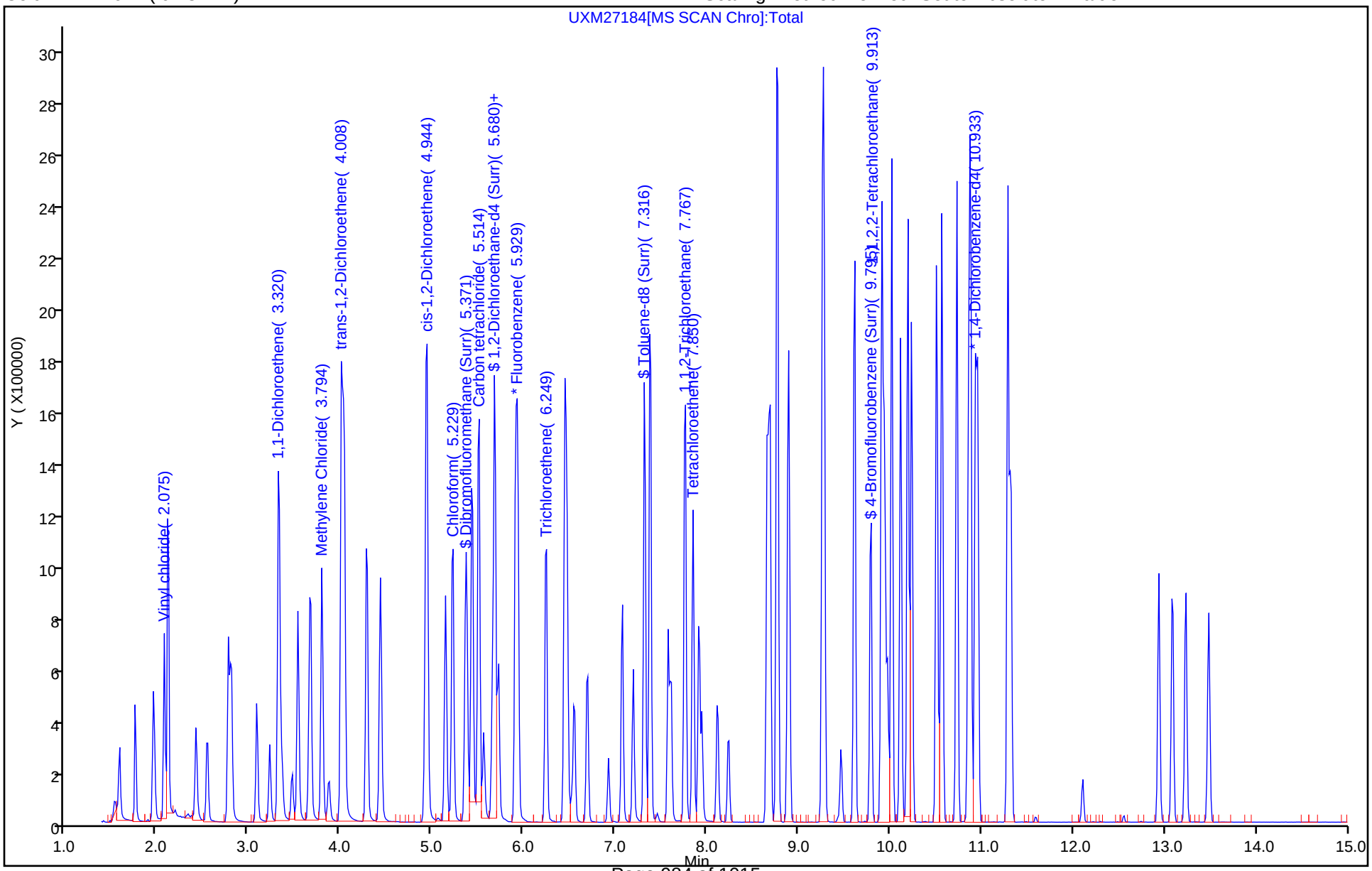
Report Date: 06-Mar-2020 14:30:15 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27184.D

Injection Date:	06-Mar-2020 14:11:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127080-E-3 MS			Worklist Smp#:	11
Client ID:	EF1Q20-COMB-EFFLUENT				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	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: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27184.D
Lims ID: 240-127080-E-3 MS
Client ID: EF1Q20-COMB-EFFLUENT
Sample Type: MS
Inject. Date: 06-Mar-2020 14:11:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 240-0096389-011
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 12:29:39 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 14:30:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.3	106.37
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.7	93.28
$ 6 Toluene-d8 (Surr)	20.0	19.4	96.88
$ 7 4-Bromofluorobenzene (Surr)	20.0	22.6	112.80

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Client Sample ID: Lab Sample ID: 240-127080-E-3 MSD

Matrix: Water Lab File ID: UXM27185.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/06/2020 14:36

Soil Aliquot Vol: Dilution Factor: 20

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 425629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-34-5	1,1,2,2-Tetrachloroethane	1420		20	2.6
75-35-4	1,1-Dichloroethene	516		20	3.8
107-06-2	1,2-Dichloroethane	468		20	4.2
56-23-5	Carbon tetrachloride	481		20	5.2
67-66-3	Chloroform	694		20	2.6
156-59-2	cis-1,2-Dichloroethene	646		20	3.2
75-09-2	Methylene Chloride	580		100	52
127-18-4	Tetrachloroethene	502		20	3.0
156-60-5	trans-1,2-Dichloroethene	493		20	3.8
79-01-6	Trichloroethene	544		20	2.0
75-01-4	Vinyl chloride	477		10	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		75-130
460-00-4	4-Bromofluorobenzene (Surr)	112		47-134
2037-26-5	Toluene-d8 (Surr)	95		69-122
1868-53-7	Dibromofluoromethane (Surr)	105		78-129

Eurofins TestAmerica, Canton
Target Compound Quantitation Report

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27185.D
Lims ID: 240-127080-E-3 MSD
Client ID: EF1Q20-COMB-EFFLUENT
Sample Type: MSD
Inject. Date: 06-Mar-2020 14:36:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 240-0096389-012
Operator ID: 001765 Instrument ID: A3UX16

Method: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m
Limit Group: MSV 8260C ICAL
Last Update: 06-Mar-2020 14:35:16 Calib Date: 07-Feb-2020 23:28:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: bosworthh Date: 06-Mar-2020 16:42:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.928	5.928	0.000	99	1206581	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.656	8.656	0.000	86	876736	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.933	10.933	0.000	96	440295	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	5.359	5.359	0.000	93	264204	20.0	21.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.656	5.656	0.000	98	298427	20.0	18.2	
$ 6 Toluene-d8 (Surr)	98	7.316	7.316	0.000	93	1095878	20.0	19.1	
$ 7 4-Bromofluorobenzene (Surr	95	9.794	9.794	0.000	89	444126	20.0	22.4	
11 Vinyl chloride	62	2.074	2.074	0.000	98	627344	20.0	23.8	
19 1,1-Dichloroethene	96	3.320	3.320	0.000	98	343367	20.0	25.8	
28 Methylene Chloride	84	3.794	3.794	0.000	91	468132	20.0	29.0	
32 trans-1,2-Dichloroethene	96	4.043	4.043	0.000	99	398678	20.0	24.6	
39 cis-1,2-Dichloroethene	96	4.932	4.932	0.000	81	553612	20.0	32.3	
47 Chloroform	83	5.229	5.229	0.000	94	901855	20.0	34.7	
51 Carbon tetrachloride	117	5.513	5.513	0.000	86	441225	20.0	24.1	
53 1,2-Dichloroethane	62	5.727	5.727	0.000	97	480078	20.0	23.4	
58 Trichloroethene	130	6.249	6.249	0.000	98	408575	20.0	27.2	
73 1,1,2-Trichloroethane	97	7.767	7.767	0.000	91	582319	20.0	46.8	
75 Tetrachloroethene	164	7.850	7.850	0.000	96	288602	20.0	25.1	
92 1,1,2,2-Tetrachloroethane	83	9.913	9.913	0.000	95	1185056	20.0	71.1	

Reagents:

vmfaspw_00341	Amount Added: 16.00	Units: uL	
vmfasgw_00349	Amount Added: 16.00	Units: uL	
vmfasaw_00319	Amount Added: 16.00	Units: uL	
vm50is_stk_a_00006	Amount Added: 2.00	Units: uL	Run Reagent
vmDist_H2o_00165	Amount Added: 0.00	Units:	Run Reagent
vm50ss_stk_00083	Amount Added: 2.00	Units: uL	Run Reagent

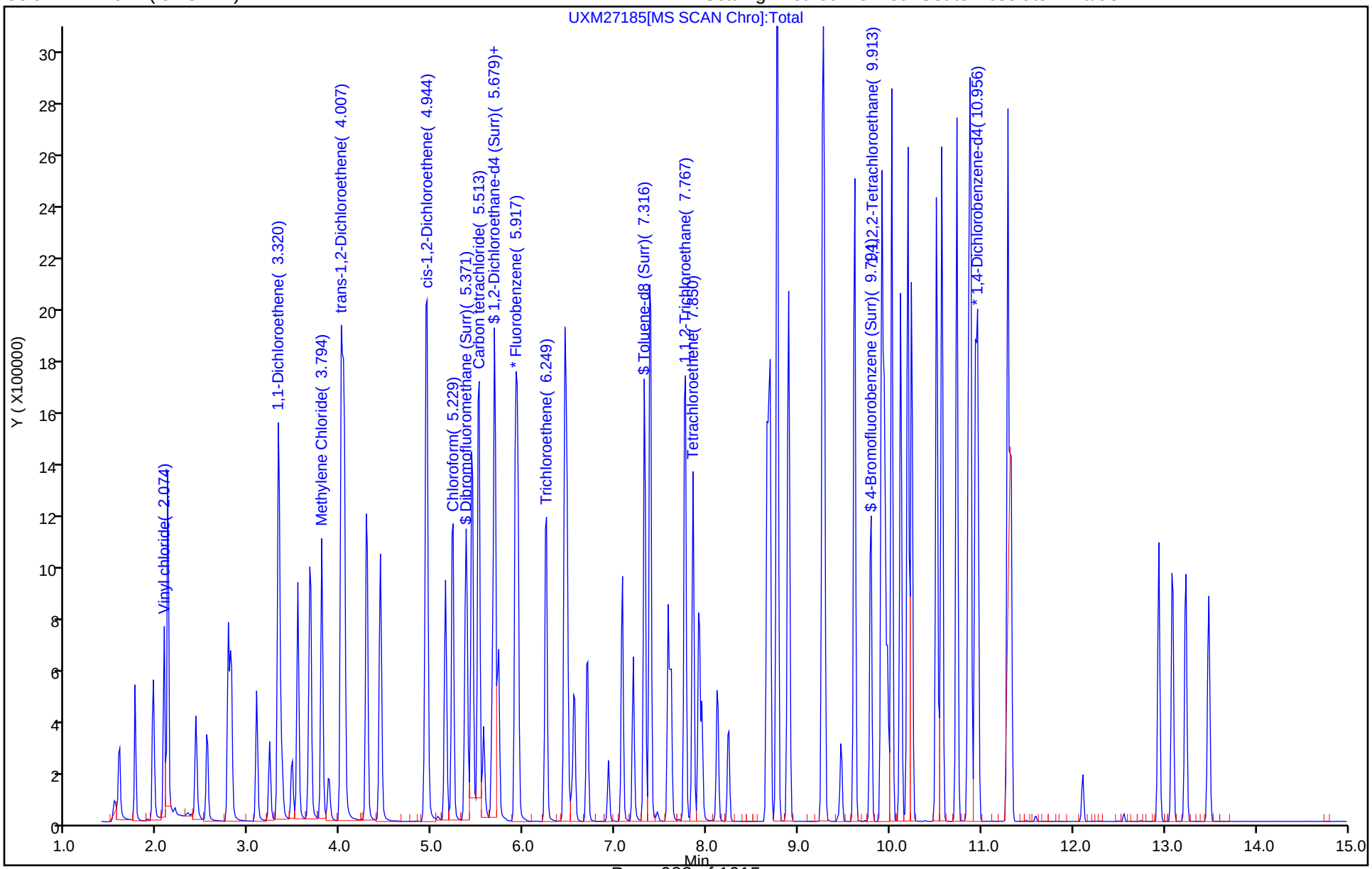
Report Date: 06-Mar-2020 16:42:10 Chrom Revision: 2.3 19-Feb-2020 16:45:46

Eurofins TestAmerica, Canton

Data File: \\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27185.D

Injection Date:	06-Mar-2020 14:36:30	Instrument ID:	A3UX16	Operator ID:	001765
Lims ID:	240-127080-E-3 MSD			Worklist Smp#:	12
Client ID:	EF1Q20-COMB-EFFLUENT				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	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:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\UXM27185.D				
Lims ID:	240-127080-E-3 MSD				
Client ID:	EF1Q20-COMB-EFFLUENT				
Sample Type:	MSD				
Inject. Date:	06-Mar-2020 14:36:30	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Sample Info:	240-0096389-012				
Operator ID:	001765	Instrument ID:	A3UX16		
Method:	\\chromna\Canton\ChromData\A3UX16\20200306-96389.b\8260_16.m				
Limit Group:	MSV 8260C ICAL				
Last Update:	06-Mar-2020 14:35:16	Calib Date:	07-Feb-2020 23:28:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Canton\ChromData\A3UX16\20200207-95576.b\UXM26869.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX0320				

First Level Reviewer: bosworthh Date: 06-Mar-2020 16:42:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Dibromofluoromethane (Surr)	20.0	21.0	104.99
$ 5 1,2-Dichloroethane-d4 (Surr)	20.0	18.2	91.16
$ 6 Toluene-d8 (Surr)	20.0	19.1	95.29
$ 7 4-Bromofluorobenzene (Surr)	20.0	22.4	111.91

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Instrument ID: A3UX19 Start Date: 07/24/2018 17:22

Analysis Batch Number: 337766 End Date: 07/24/2018 21:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-337766/1		07/24/2018 17:22	1	bfb036.d	DB-624 0.18(mm)
STD8260 240-337766/2 IC		07/24/2018 17:50	1	U1900783.d	DB-624 0.18(mm)
STD8260 240-337766/3 IC		07/24/2018 18:13	1	U1900784.d	DB-624 0.18(mm)
STD8260 240-337766/9 IC		07/24/2018 18:35	1	U1900790.d	DB-624 0.18(mm)
ICIS 240-337766/10		07/24/2018 18:57	1	U1900791.d	DB-624 0.18(mm)
STD8260 240-337766/11 IC		07/24/2018 19:20	1	U1900792.d	DB-624 0.18(mm)
STD8260 240-337766/12 IC		07/24/2018 19:42	1	U1900793.d	DB-624 0.18(mm)
STD8260 240-337766/13 IC		07/24/2018 20:04	1	U1900794.d	DB-624 0.18(mm)
ICV 240-337766/14		07/24/2018 20:26	1		DB-624 0.18(mm)
MRL 240-337766/15 MDLV		07/24/2018 20:48	1		DB-624 0.18(mm)
MDLV 240-337766/16		07/24/2018 21:10	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

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	U1900808.d	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.: 240-127107-1

SDG No.:

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.: 240-127107-1

SDG No.:

Instrument ID: A3UX16 Start Date: 02/07/2020 15:54

Analysis Batch Number: 421991 End Date: 02/07/2020 23:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-421991/1		02/07/2020 15:54	1	BFB6359.D	DB-624 0.18(mm)
STD8260 240-421991/9 IC		02/07/2020 16:51	1	UXM26853.D	DB-624 0.18(mm)
STD8260 240-421991/10 IC		02/07/2020 17:16	1	UXM26854.D	DB-624 0.18(mm)
STD8260 240-421991/11 IC		02/07/2020 17:41	1	UXM26855.D	DB-624 0.18(mm)
STD8260 240-421991/12 IC		02/07/2020 18:06	1	UXM26856.D	DB-624 0.18(mm)
ICIS 240-421991/13		02/07/2020 18:31	1	UXM26857.D	DB-624 0.18(mm)
STD8260 240-421991/14 IC		02/07/2020 18:55	1	UXM26858.D	DB-624 0.18(mm)
STD8260 240-421991/15 IC		02/07/2020 19:20	1	UXM26859.D	DB-624 0.18(mm)
STD8260 240-421991/16 IC		02/07/2020 19:45	1	UXM26860.D	DB-624 0.18(mm)
ICV 240-421991/17		02/07/2020 20:10	1	UXM26861.D	DB-624 0.18(mm)
STDA9 240-421991/20 IC		02/07/2020 21:24	1	UXM26864.D	DB-624 0.18(mm)
STDA9 240-421991/21 IC		02/07/2020 21:49	1	UXM26865.D	DB-624 0.18(mm)
STDA9 240-421991/22 IC		02/07/2020 22:14	1	UXM26866.D	DB-624 0.18(mm)
STDA9 240-421991/23 IC		02/07/2020 22:39	1	UXM26867.D	DB-624 0.18(mm)
STDA9 240-421991/24 IC		02/07/2020 23:03	1	UXM26868.D	DB-624 0.18(mm)
STDA9 240-421991/25 IC		02/07/2020 23:28	1	UXM26869.D	DB-624 0.18(mm)
ICV 240-421991/26		02/07/2020 23:53	1	UXM26870.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Instrument ID: A3UX19 Start Date: 03/05/2020 18:08

Analysis Batch Number: 425546 End Date: 03/06/2020 02:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-425546/2		03/05/2020 18:08	1	bfb469.d	DB-624 0.18(mm)
CCV 240-425546/3		03/05/2020 18:31	1	U1913206.d	DB-624 0.18(mm)
CCVIS 240-425546/4		03/05/2020 18:53	1	U1913207.d	DB-624 0.18(mm)
LCS 240-425546/5		03/05/2020 19:16	1	U1913208.d	DB-624 0.18(mm)
MRL 240-425546/6 MDLV		03/05/2020 19:39	1		DB-624 0.18(mm)
MRL 240-425546/7 MDLV		03/05/2020 20:02	1		DB-624 0.18(mm)
MB 240-425546/8		03/05/2020 20:24	1	U1913211.d	DB-624 0.18(mm)
MRL 240-425546/9 MDLV		03/05/2020 20:46	1		DB-624 0.18(mm)
240-127107-1		03/05/2020 21:31	1	U1913214.d	DB-624 0.18(mm)
240-127107-2		03/05/2020 21:54	1	U1913215.d	DB-624 0.18(mm)
240-127107-3		03/05/2020 22:16	1	U1913216.d	DB-624 0.18(mm)
240-127107-4		03/05/2020 22:39	1	U1913217.d	DB-624 0.18(mm)
240-127107-5		03/05/2020 23:02	1	U1913218.d	DB-624 0.18(mm)
240-127107-6		03/05/2020 23:24	1	U1913219.d	DB-624 0.18(mm)
240-127107-7		03/05/2020 23:47	1	U1913220.d	DB-624 0.18(mm)
240-127107-8		03/06/2020 00:09	1	U1913221.d	DB-624 0.18(mm)
240-127107-9		03/06/2020 00:31	1	U1913222.d	DB-624 0.18(mm)
240-127107-10		03/06/2020 00:54	1	U1913223.d	DB-624 0.18(mm)
240-127107-11		03/06/2020 01:16	1	U1913224.d	DB-624 0.18(mm)
240-127107-12		03/06/2020 01:39	1	U1913225.d	DB-624 0.18(mm)
240-127107-13		03/06/2020 02:01	1	U1913226.d	DB-624 0.18(mm)
240-127107-14		03/06/2020 02:24	1	U1913227.d	DB-624 0.18(mm)
240-127107-15		03/06/2020 02:46	1	U1913228.d	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Instrument ID: A3UX16 Start Date: 03/06/2020 10:27

Analysis Batch Number: 425629 End Date: 03/06/2020 22:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-425629/1		03/06/2020 10:27	1	BFB6368.D	DB-624 0.18(mm)
CCVIS 240-425629/3		03/06/2020 10:52	1	UXM27176.D	DB-624 0.18(mm)
CCV 240-425629/4		03/06/2020 11:17	1	UXM27177.D	DB-624 0.18(mm)
LCS 240-425629/5		03/06/2020 11:42	1	UXM27178.D	DB-624 0.18(mm)
MRL 240-425629/6 MDLV		03/06/2020 12:07	1		DB-624 0.18(mm)
MRL 240-425629/7 MDLV		03/06/2020 12:32	1		DB-624 0.18(mm)
MB 240-425629/8		03/06/2020 12:56	1	UXM27181.D	DB-624 0.18(mm)
ZZZZZ		03/06/2020 13:21	4		DB-624 0.18(mm)
ZZZZZ		03/06/2020 13:46	20		DB-624 0.18(mm)
240-127080-E-3 MS		03/06/2020 14:11	20	UXM27184.D	DB-624 0.18(mm)
240-127080-E-3 MSD		03/06/2020 14:36	20	UXM27185.D	DB-624 0.18(mm)
240-127107-16		03/06/2020 15:01	1	UXM27186.D	DB-624 0.18(mm)
240-127107-17		03/06/2020 15:25	1	UXM27187.D	DB-624 0.18(mm)
240-127107-18		03/06/2020 15:50	1	UXM27188.D	DB-624 0.18(mm)
240-127107-19		03/06/2020 16:15	1	UXM27189.D	DB-624 0.18(mm)
240-127107-20		03/06/2020 16:40	1	UXM27190.D	DB-624 0.18(mm)
240-127107-21		03/06/2020 17:05	1	UXM27191.D	DB-624 0.18(mm)
240-127107-22		03/06/2020 17:30	1	UXM27192.D	DB-624 0.18(mm)
240-127107-23		03/06/2020 17:55	1	UXM27193.D	DB-624 0.18(mm)
240-127107-24		03/06/2020 18:20	1	UXM27194.D	DB-624 0.18(mm)
240-127107-25		03/06/2020 18:45	1	UXM27195.D	DB-624 0.18(mm)
240-127107-26		03/06/2020 19:10	1	UXM27196.D	DB-624 0.18(mm)
240-127107-27		03/06/2020 19:34	1	UXM27197.D	DB-624 0.18(mm)
240-127107-28		03/06/2020 19:59	1	UXM27198.D	DB-624 0.18(mm)
240-127107-29		03/06/2020 20:24	1	UXM27199.D	DB-624 0.18(mm)
240-127107-30		03/06/2020 20:49	1	UXM27200.D	DB-624 0.18(mm)
240-127107-31		03/06/2020 21:14	1	UXM27201.D	DB-624 0.18(mm)
240-127107-32		03/06/2020 21:39	1	UXM27202.D	DB-624 0.18(mm)
240-127107-33		03/06/2020 22:04	1	UXM27203.D	DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Canton Job No.: 240-127107-1

SDG No.:

Batch Number: 337917 Batch Start Date: 07/25/18 11:28 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_stk 00077	vmbfb 00020	VMFASA9W 00194
BFB 240-337917/1		8260C		5 mL	5 mL			1 uL	
STDA9 240-337917/8 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-337917/9 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-337917/10 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-337917/11 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-337917/12 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-337917/13 IC		8260C		5 mL	5 mL	2 uL			
ICV 240-337917/14		8260C		5 mL	5 mL	2 uL	2 uL		16 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmra9w 00259					
BFB 240-337917/1		8260C							
STDA9 240-337917/8 IC		8260C		64 uL					
STDA9 240-337917/9 IC		8260C		32 uL					
STDA9 240-337917/10 IC		8260C		16 uL					
STDA9 240-337917/11 IC		8260C		8 uL					
STDA9 240-337917/12 IC		8260C		0.8 uL					
STDA9 240-337917/13 IC		8260C		0.4 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.: 240-127107-1

SDG No.:

Batch Number: 337917 Batch Start Date: 07/25/18 11:28 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmra9w 00259					
ICV 240-337917/14		8260C							

Batch Notes	
pH Indicator ID	HC746949

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.: 240-127107-1

SDG No.:

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.: 240-127107-1

SDG No.:

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.: 240-127107-1

SDG No.:

Batch Number: 421991 Batch Start Date: 02/07/20 15:54 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 00006	VM50SS 00390	vm50ss_stk 00083	vmarolistdw 00332
BFB 240-421991/1		8260C		5 mL	5 mL				
STD8260 240-421991/9 IC		8260C		5 mL	5 mL	2 uL	96 uL		96 uL
STD8260 240-421991/10 IC		8260C		5 mL	5 mL	2 uL	64 uL		64 uL
STD8260 240-421991/11 IC		8260C		5 mL	5 mL	2 uL	48 uL		48 uL
STD8260 240-421991/12 IC		8260C		5 mL	5 mL	2 uL	32 uL		32 uL
ICIS 240-421991/13		8260C		5 mL	5 mL	2 uL	16 uL		16 uL
STD8260 240-421991/14 IC		8260C		5 mL	5 mL	2 uL	8 uL		8 uL
STD8260 240-421991/15 IC		8260C		5 mL	5 mL	2 uL	0.8 uL		0.8 uL
STD8260 240-421991/16 IC		8260C		5 mL	5 mL	2 uL	0.4 uL		0.4 uL
ICV 240-421991/17		8260C		5 mL	5 mL	2 uL		2 uL	
STDA9 240-421991/20 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-421991/21 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-421991/22 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-421991/23 IC		8260C		5 mL	5 mL	2 uL			
STDA9 240-421991/24 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.: 240-127107-1

SDG No.:

Batch Number: 421991 Batch Start Date: 02/07/20 15:54 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 00006	VM50SS 00390	vm50ss_stk 00083	vmarolistdw 00332
STDA9 240-421991/25 IC		8260C		5 mL	5 mL	2 uL			
ICV 240-421991/26		8260C		5 mL	5 mL	2 uL		2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00024	VMFASA9W 00264	vmfasaw 00315	vmfasgw 00345	vmfaspw 00337	VMRA9W 00332
BFB 240-421991/1		8260C		1 uL					
STD8260 240-421991/9 IC		8260C							
STD8260 240-421991/10 IC		8260C							
STD8260 240-421991/11 IC		8260C							
STD8260 240-421991/12 IC		8260C							
ICIS 240-421991/13		8260C							
STD8260 240-421991/14 IC		8260C							
STD8260 240-421991/15 IC		8260C							
STD8260 240-421991/16 IC		8260C							
ICV 240-421991/17		8260C				16 uL	16 uL	16 uL	
STDA9 240-421991/20 IC		8260C							64 uL
STDA9 240-421991/21 IC		8260C							32 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.: 240-127107-1

SDG No.:

Batch Number: 421991 Batch Start Date: 02/07/20 15:54 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00024	VMFASA9W 00264	vmfasaw 00315	vmfasgw 00345	vmfaspw 00337	VMRA9W 00332
STDA9 240-421991/22 IC		8260C							16 uL
STDA9 240-421991/23 IC		8260C							8 uL
STDA9 240-421991/24 IC		8260C							0.8 uL
STDA9 240-421991/25 IC		8260C							0.4 uL
ICV 240-421991/26		8260C			16 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00326	vmrprimw 00372				
BFB 240-421991/1		8260C							
STD8260 240-421991/9 IC		8260C		96 uL	96 uL				
STD8260 240-421991/10 IC		8260C		64 uL	64 uL				
STD8260 240-421991/11 IC		8260C		48 uL	48 uL				
STD8260 240-421991/12 IC		8260C		32 uL	32 uL				
ICIS 240-421991/13		8260C		16 uL	16 uL				
STD8260 240-421991/14 IC		8260C		8 uL	8 uL				
STD8260 240-421991/15 IC		8260C		0.8 uL	0.8 uL				
STD8260 240-421991/16 IC		8260C		0.4 uL	0.4 uL				
ICV 240-421991/17		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.: 240-127107-1

SDG No.:

Batch Number: 421991 Batch Start Date: 02/07/20 15:54 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00326	vmrprimw 00372				
STDA9 240-421991/20 IC		8260C							
STDA9 240-421991/21 IC		8260C							
STDA9 240-421991/22 IC		8260C							
STDA9 240-421991/23 IC		8260C							
STDA9 240-421991/24 IC		8260C							
STDA9 240-421991/25 IC		8260C							
ICV 240-421991/26		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.: 240-127107-1

SDG No.:

Batch Number: 425546 Batch Start Date: 03/05/20 18:08 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 00006	vm50ss_stk 00082	vmarolistdw 00335
BFB 240-425546/2		8260C		5 mL	5 mL				
CCV 240-425546/3		8260C		5 mL	5 mL		2 uL		
CCVIS 240-425546/4		8260C		5 mL	5 mL		2 uL	2 uL	16 uL
LCS 240-425546/5		8260C		5 mL	5 mL		2 uL	2 uL	
MB 240-425546/8		8260C		5 mL	5 mL		2 uL	2 uL	
240-127107-B-1	MSA-SW37A-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-2	MSA-SW37B-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-3	MSA-SW37C-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-4	MSA-SW37D-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-5	MSA-SW38A-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-6	MSA-SW38B-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-7	MSA-SW38C-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-8	MSA-SW38D-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-9	MSA-SW40A-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-10	MSA-SW40B-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-11	MSA-SW40C-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-12	MSA-SW40D-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-13	MSA-SW41A-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-14	MSA-SW41B-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	
240-127107-B-15	MSA-SW41C-030320	8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00024	vmfasaw 00319	vmfasgw 00349	vmfaspw 00341	vmra9w 00335	vmrgas 00329
BFB 240-425546/2		8260C		1 uL					
CCV 240-425546/3		8260C						16 uL	
CCVIS 240-425546/4		8260C							16 uL
LCS 240-425546/5		8260C			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.: 240-127107-1

SDG No.:

Batch Number: 425546 Batch Start Date: 03/05/20 18:08 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmbfb 00024	vmfasaw 00319	vmfasgw 00349	vmfaspw 00341	vmra9w 00335	vmrgas 00329
MB 240-425546/8		8260C							
240-127107-B-1	MSA-SW37A-030320	8260C	T						
240-127107-B-2	MSA-SW37B-030320	8260C	T						
240-127107-B-3	MSA-SW37C-030320	8260C	T						
240-127107-B-4	MSA-SW37D-030320	8260C	T						
240-127107-B-5	MSA-SW38A-030320	8260C	T						
240-127107-B-6	MSA-SW38B-030320	8260C	T						
240-127107-B-7	MSA-SW38C-030320	8260C	T						
240-127107-B-8	MSA-SW38D-030320	8260C	T						
240-127107-B-9	MSA-SW40A-030320	8260C	T						
240-127107-B-10	MSA-SW40B-030320	8260C	T						
240-127107-B-11	MSA-SW40C-030320	8260C	T						
240-127107-B-12	MSA-SW40D-030320	8260C	T						
240-127107-B-13	MSA-SW41A-030320	8260C	T						
240-127107-B-14	MSA-SW41B-030320	8260C	T						
240-127107-B-15	MSA-SW41C-030320	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00376					
BFB 240-425546/2		8260C							
CCV 240-425546/3		8260C							
CCVIS 240-425546/4		8260C		16 uL					
LCS 240-425546/5		8260C							
MB 240-425546/8		8260C							
240-127107-B-1	MSA-SW37A-030320	8260C	T						
240-127107-B-2	MSA-SW37B-030320	8260C	T						
240-127107-B-3	MSA-SW37C-030320	8260C	T						
240-127107-B-4	MSA-SW37D-030320	8260C	T						
240-127107-B-5	MSA-SW38A-030320	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.: 240-127107-1

SDG No.:

Batch Number: 425546 Batch Start Date: 03/05/20 18:08 Batch Analyst: Lavey, Tim

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrprimw 00376					
240-127107-B-6	MSA-SW38B-030320	8260C	T						
240-127107-B-7	MSA-SW38C-030320	8260C	T						
240-127107-B-8	MSA-SW38D-030320	8260C	T						
240-127107-B-9	MSA-SW40A-030320	8260C	T						
240-127107-B-10	MSA-SW40B-030320	8260C	T						
240-127107-B-11	MSA-SW40C-030320	8260C	T						
240-127107-B-12	MSA-SW40D-030320	8260C	T						
240-127107-B-13	MSA-SW41A-030320	8260C	T						
240-127107-B-14	MSA-SW41B-030320	8260C	T						
240-127107-B-15	MSA-SW41C-030320	8260C	T						

Batch Notes	
pH Indicator ID	HC861525

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.: 240-127107-1

SDG No.:

Batch Number: 425629 Batch Start Date: 03/06/20 10:27 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 00004	vm50is_stk_a 00006	vm50ss_stk 00083
BFB 240-425629/1		8260C		5 mL	5 mL				
CCVIS 240-425629/3		8260C		5 mL	5 mL			2 uL	2 uL
CCV 240-425629/4		8260C		5 mL	5 mL		1 uL		
LCS 240-425629/5		8260C		5 mL	5 mL			2 uL	2 uL
MB 240-425629/8		8260C		5 mL	5 mL			2 uL	2 uL
240-127080-E-3 MS	EF1Q20-COMB-EFFLUENT	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127080-E-3 MSD	EF1Q20-COMB-EFFLUENT	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-16	MSA-SW41D-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-17	MSA-SW42A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-18	MSA-SW42B-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-19	MSA-SW42C-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-20	MSA-SW42D-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-21	MSA-SW43A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-22	MSA-SW43B-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-23	MSA-SW43C-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-24	MSA-SW43D-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-25	MSA-SW44A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-26	MSA-SW44B-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-27	MSA-SW44C-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-28	MSA-SW44D-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-29	TB-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-30	MSA-SW46A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-31	MSA-SW47A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-32	MSA-SW48A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL
240-127107-B-33	MSA-SW49A-030320	8260C	T	5 mL	5 mL	<2 SU		2 uL	2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmarolistdw 00335	vmbfb 00024	vmfasaw 00319	vmfasgw 00349	vmfaspw 00341	vmra9w 00335

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.: 240-127107-1

SDG No.:

Batch Number: 425629 Batch Start Date: 03/06/20 10:27 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmarolistdw 00335	vmbfb 00024	vmfasaw 00319	vmfasgw 00349	vmfaspw 00341	vmra9w 00335
BFB 240-425629/1		8260C			1 uL				
CCVIS 240-425629/3		8260C		16 uL					
CCV 240-425629/4		8260C							16 uL
LCS 240-425629/5		8260C				16 uL	16 uL	16 uL	
MB 240-425629/8		8260C							
240-127080-E-3 MS	EF1Q20-COMB-EFFLUENT	8260C	T			16 uL	16 uL	16 uL	
240-127080-E-3 MSD	EF1Q20-COMB-EFFLUENT	8260C	T			16 uL	16 uL	16 uL	
240-127107-B-16	MSA-SW41D-030320	8260C	T						
240-127107-B-17	MSA-SW42A-030320	8260C	T						
240-127107-B-18	MSA-SW42B-030320	8260C	T						
240-127107-B-19	MSA-SW42C-030320	8260C	T						
240-127107-B-20	MSA-SW42D-030320	8260C	T						
240-127107-B-21	MSA-SW43A-030320	8260C	T						
240-127107-B-22	MSA-SW43B-030320	8260C	T						
240-127107-B-23	MSA-SW43C-030320	8260C	T						
240-127107-B-24	MSA-SW43D-030320	8260C	T						
240-127107-B-25	MSA-SW44A-030320	8260C	T						
240-127107-B-26	MSA-SW44B-030320	8260C	T						
240-127107-B-27	MSA-SW44C-030320	8260C	T						
240-127107-B-28	MSA-SW44D-030320	8260C	T						
240-127107-B-29	TB-030320	8260C	T						
240-127107-B-30	MSA-SW46A-030320	8260C	T						
240-127107-B-31	MSA-SW47A-030320	8260C	T						
240-127107-B-32	MSA-SW48A-030320	8260C	T						
240-127107-B-33	MSA-SW49A-030320	8260C	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00329	vmrprimw 00376				

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.: 240-127107-1

SDG No.:

Batch Number: 425629 Batch Start Date: 03/06/20 10:27 Batch Analyst: Bosworth, Heather M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	vmrgas 00329	vmrprimw 00376				
BFB 240-425629/1		8260C							
CCVIS 240-425629/3		8260C		16 uL	16 uL				
CCV 240-425629/4		8260C							
LCS 240-425629/5		8260C							
MB 240-425629/8		8260C							
240-127080-E-3 MS	EF1Q20-COMB-EFFLUENT	8260C	T						
240-127080-E-3 MSD	EF1Q20-COMB-EFFLUENT	8260C	T						
240-127107-B-16	MSA-SW41D-030320	8260C	T						
240-127107-B-17	MSA-SW42A-030320	8260C	T						
240-127107-B-18	MSA-SW42B-030320	8260C	T						
240-127107-B-19	MSA-SW42C-030320	8260C	T						
240-127107-B-20	MSA-SW42D-030320	8260C	T						
240-127107-B-21	MSA-SW43A-030320	8260C	T						
240-127107-B-22	MSA-SW43B-030320	8260C	T						
240-127107-B-23	MSA-SW43C-030320	8260C	T						
240-127107-B-24	MSA-SW43D-030320	8260C	T						
240-127107-B-25	MSA-SW44A-030320	8260C	T						
240-127107-B-26	MSA-SW44B-030320	8260C	T						
240-127107-B-27	MSA-SW44C-030320	8260C	T						
240-127107-B-28	MSA-SW44D-030320	8260C	T						
240-127107-B-29	TB-030320	8260C	T						
240-127107-B-30	MSA-SW46A-030320	8260C	T						
240-127107-B-31	MSA-SW47A-030320	8260C	T						
240-127107-B-32	MSA-SW48A-030320	8260C	T						
240-127107-B-33	MSA-SW49A-030320	8260C	T						

Batch Notes	
pH Indicator ID	HC861525

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.: 240-127107-1

SDG No.:

Batch Number: 425629 Batch Start Date: 03/06/20 10:27 Batch Analyst: Bosworth, Heather M

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.

Shipping and Receiving Documents

3.9/46 Baltimore #201

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

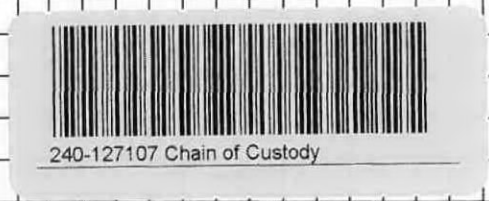
Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Josh Mullis	Site Contact: Josh Mullis	Date: 3/3/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: John McFadden	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			
Site: MSA Frog Mortar Creek	☐ 2 days			Sampler: J Mullis
Project # 112IC09023	☐ 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-030320	3/3/2020	0952	SW	Water	3		x	
MSA-SW37B-030320	3/3/2020	0955	SW	Water	3		x	
MSA-SW37C-030320	3/3/2020	0957	SW	Water	3		x	
MSA-SW37D-030320	3/3/2020	1000	SW	Water	3		x	
MSA-SW38A-030320	3/3/2020	0903	SW	Water	3		x	
MSA-SW38B-030320	3/3/2020	0905	SW	Water	3		x	
MSA-SW38C-030320	3/3/2020	0909	SW	Water	3		x	
MSA-SW38D-030320	3/3/2020	0912	SW	Water	3		x	
MSA-SW40A-030320	3/3/2020	0921	SW	Water	3		x	
MSA-SW40B-030320	3/3/2020	0924	SW	Water	3		x	
MSA-SW40C-030320	3/3/2020	0926	SW	Water	3		x	
MSA-SW40D-030320	3/3/2020	0929	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: Dissolved Metals and DOC filtered in field

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech Inc	3/3/2020		BTA	3/3/20 1500
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	BTA	3/3/20 1700		ETA	3-4-20 930
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: 3/3/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: John McFadden	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 # 112IC09023	☐ 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-030320	3/3/2020	0844	SW	Water	3		x	
MSA-SW41B-030320	3/3/2020	0849	SW	Water	3		x	
MSA-SW41C-030320	3/3/2020	0851	SW	Water	3		x	
MSA-SW41D-030320	3/3/2020	0855	SW	Water	3		x	
MSA-SW42A-030320	3/3/2020	0940	SW	Water	3		x	
MSA-SW42B-030320	3/3/2020	0943	SW	Water	3		x	
MSA-SW42C-030320	3/3/2020	0945	SW	Water	3		x	
MSA-SW42D-030320	3/3/2020	0948	SW	Water	3		x	
MSA-SW43A-030320	3/3/2020	0826	SW	Water	3		x	
MSA-SW43B-030320	3/3/2020	0830	SW	Water	3		x	
MSA-SW43C-030320	3/3/2020	0834	SW	Water	3		x	
MSA-SW43D-030320	3/3/2020	0837	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: Dissolved Metals and DOC filtered in field

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Tetra Tech Inc	3/3/2020	[signature]	ETA	3/3/20 1520
Relinquished by: [signature]	Company: ETA	Date/Time: 3/3/20 1700	Received by: [signature]	Company: ETA	Date/Time: 3-4-20 950
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: 3/3/2020	COC No:
Tetra Tech	Tel/Fax: 410-279-2700	Lab Contact: John McFadden	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			
Site: MSA Frog Mortar Creek	☐ 2 days			Sampler: J Mullis
Project # 112IC09023	☐ 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-030320	3/3/2020	0806	SW	Water	3		x	
MSA-SW44B-030320	3/3/2020	0813	SW	Water	3		x	
MSA-SW44C-030320	3/3/2020	0816	SW	Water	3		x	
MSA-SW44D-030320	3/3/2020	0819	SW	Water	3		x	
TB-030320	3/3/2020	0000	SW	Water	3		x	
MSA-SW46A-030320	3/3/2020	0937	SW	Water	3		x	
MSA-SW47A-030320	3/3/2020	0916	SW	Water	3		x	
MSA-SW48A-030320	3/3/2020	0859	SW	Water	3		x	
MSA-SW49A-030320	3/3/2020	0837	SW	Water	3		x	
			3/3/2020					
							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: Dissolved Metals and DOC filtered in field

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech Inc	3/3/2020		ETA	3/3/20 1500
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	ETA	3/3/20 1700		ETA	3-4-20 930
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 2, dated 03/06/2012

Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 127107

Client Tetra Tech Site Name

Cooler Received on 5-4-20 Opened on 5-4-20 930

Cooler unpacked by: Ryan C

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # TA 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-10 (CF +0.7 °C) Observed Cooler Temp. 3.9 °C Corrected Cooler Temp. 4.6 °C
   IR GUN #IR-11 (CF +0.9°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 be reconciled with the COC? — Yes No
9. Were correct bottle(s) used for the test(s) indicated? — Yes No
10. Sufficient quantity received to perform indicated analyses? — Yes No
11. Are these work share samples? — Yes No
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? — Yes No NA pH Strip Lot# **HC995364**
13. Were VOAs on the COC? — Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. — Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 59072 — Yes No
16. 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

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: JG

18. 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)

19. 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

Table C-1
Chemical Results for Surface Water Samples
Frig Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW37D	MSA-SW38A	MSA-SW38B
SAMPLE ID	MSA-SW37A-030320	MSA-SW37B-030320	MSA-SW37C-030320	MSA-SW37D-030320	MSA-SW38A-030320	MSA-SW38B-030320
SAMPLE DATE	20200303	20200303	20200303	20200303	20200303	20200303
Volatile organic compounds (µg/L)						
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	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	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U	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	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	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	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	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	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	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	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	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	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	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	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U	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	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ
4-CHLOROTOLUENE	0.09 U	0.09 U	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	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ
ACETONE	5.4 U	5.4 U	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	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	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	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 UJ	0.76 UJ	0.76 UJ	0.76 UJ	0.76 UJ	0.76 UJ
BROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	0.28 U	0.28 U	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	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	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	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	0.83 U	0.83 U	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	0.13 U	0.13 U

Table C-1
Chemical Results for Surface Water Samples
Frig Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW37D	MSA-SW38A	MSA-SW38B
SAMPLE ID	MSA-SW37A-030320	MSA-SW37B-030320	MSA-SW37C-030320	MSA-SW37D-030320	MSA-SW38A-030320	MSA-SW38B-030320
SAMPLE DATE	20200303	20200303	20200303	20200303	20200303	20200303
Volatile organic compounds-cont'd (µg/L)						
CHLOROMETHANE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U	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	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	0.15 UJ	0.15 UJ	0.15 UJ	0.15 UJ	0.15 UJ	0.15 UJ
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ
ISOPROPYLBENZENE	0.09 U	0.09 U	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	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 UJ	0.07 UJ	0.07 UJ	0.07 UJ	0.07 UJ	0.07 UJ
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 UJ	0.32 UJ	0.32 UJ	0.32 UJ	0.32 UJ	0.32 UJ
N-BUTYLBENZENE	0.14 U	0.14 U	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	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	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	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	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	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	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	1.7 U	1.7 U
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	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	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	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	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	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	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tentatively identified compounds-volatiles (µg/L)						
ISOPROPYL ALCOHOL	--	--	--	--	--	--

DL - detection limit
J - estimated
NJ - analyte tentatively identified; concentration is estimated
QL - quantitation limit
U - nondetect
UJ - analyte not detected; QL or DL inaccurate/imprecise
UR - analyte not detected; result is unreliable

Table C-1
Chemical Results for Surface Water Samples
Frig Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW38C	MSA-SW38D	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW40D
SAMPLE ID	MSA-SW38C-030320	MSA-SW38D-030320	MSA-SW40A-030320	MSA-SW40B-030320	MSA-SW40C-030320	MSA-SW40D-030320
SAMPLE DATE	20200303	20200303	20200303	20200303	20200303	20200303
Volatile organic compounds (µg/L)						
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	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	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
1,1-DICHLOROETHANE	0.17 U	0.17 U	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	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	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	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	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	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	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	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	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	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	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	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U	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	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ
4-CHLOROTOLUENE	0.09 U	0.09 U	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	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ
ACETONE	5.4 U	5.4 U	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	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	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	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 UJ	0.76 UJ	0.76 UJ	0.76 UJ	0.76 UJ	0.76 UJ
BROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
CARBON DISULFIDE	0.28 U	0.28 U	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	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	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	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	0.83 U	0.83 U	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	0.13 U	0.13 U

Table C-1
Chemical Results for Surface Water Samples
Frig Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW38C	MSA-SW38D	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW40D
SAMPLE ID	MSA-SW38C-030320	MSA-SW38D-030320	MSA-SW40A-030320	MSA-SW40B-030320	MSA-SW40C-030320	MSA-SW40D-030320
SAMPLE DATE	20200303	20200303	20200303	20200303	20200303	20200303
Volatile organic compounds-cont'd (µg/L)						
CHLOROMETHANE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U	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	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	0.15 UJ	0.15 UJ	0.15 UJ	0.15 UJ	0.15 UJ	0.15 UJ
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ	0.83 UJ
ISOPROPYLBENZENE	0.09 U	0.09 U	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	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 UJ	0.07 UJ	0.07 UJ	0.07 UJ	0.07 UJ	0.07 UJ
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 UJ	0.32 UJ	0.32 UJ	0.32 UJ	0.32 UJ	0.32 UJ
N-BUTYLBENZENE	0.14 U	0.14 U	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	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	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	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	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	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	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	1.7 U	1.7 U
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U	0.18 J	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	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	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	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	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	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	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.24 J	0.2 U	0.21 J	0.2 U
Tentatively identified compounds-volatiles (µg/L)						
ISOPROPYL ALCOHOL	--	--	--	--	--	--

DL - detection limit
J - estimated
NJ - analyte tentatively identified; concentration is estimated
QL - quantitation limit
U - nondetect
UJ - analyte not detected; QL or DL inaccurate/imprecise
UR - analyte not detected; result is unreliable

Table C-1
Chemical Results for Surface Water Samples
Frig Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW41A	MSA-SW41B	MSA-SW41C	MSA-SW41D	MSA-SW42A	MSA-SW42B
SAMPLE ID	MSA-SW41A-030320	MSA-SW41B-030320	MSA-SW41C-030320	MSA-SW41D-030320	MSA-SW42A-030320	MSA-SW42B-030320
SAMPLE DATE	20200303	20200303	20200303	20200303	20200303	20200303
Volatile organic compounds (µg/L)						
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	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	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 U	0.41 U	0.41 U	0.41 UJ	0.41 UJ	0.41 UJ
1,1-DICHLOROETHANE	0.17 U	0.17 U	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	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 UJ	0.54 UJ	0.54 UJ	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	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 UJ	0.26 UJ	0.26 UJ	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	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	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	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	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	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	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	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	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	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	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	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 UJ	0.54 UJ	0.54 UJ	0.54 U	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	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	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U	0.42 U	0.42 U
ACETONE	5.4 U	5.4 U	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	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	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	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 UJ	0.76 UJ	0.76 UJ	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 U	0.42 U	0.42 U	0.42 UJ	0.42 UJ	0.42 UJ
CARBON DISULFIDE	0.28 U	0.28 U	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	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	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	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	0.83 U	0.83 U	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	0.13 U	0.13 U

Table C-1
Chemical Results for Surface Water Samples
Frig Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW41A	MSA-SW41B	MSA-SW41C	MSA-SW41D	MSA-SW42A	MSA-SW42B
SAMPLE ID	MSA-SW41A-030320	MSA-SW41B-030320	MSA-SW41C-030320	MSA-SW41D-030320	MSA-SW42A-030320	MSA-SW42B-030320
SAMPLE DATE	20200303	20200303	20200303	20200303	20200303	20200303
Volatile organic compounds-cont'd (µg/L)						
CHLOROMETHANE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U	0.16 U	0.16 U	0.38 J	0.28 J
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U	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	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	0.15 UJ	0.15 UJ	0.15 UJ	0.15 U	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 UJ	0.83 UJ	0.83 UJ	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	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	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 UJ	0.07 UJ	0.07 UJ	0.07 U	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 UJ	0.32 UJ	0.32 UJ	0.32 U	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U	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	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	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	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	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	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	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 UJ	1.7 UJ	1.7 UJ
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	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	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	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	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	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	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U	0.2 U	1	0.64
Tentatively identified compounds-volatiles (µg/L)						
ISOPROPYL ALCOHOL	--	--	--	--	--	--

DL - detection limit
J - estimated
NJ - analyte tentatively identified; concentration is estimated
QL - quantitation limit
U - nondetect
UJ - analyte not detected; QL or DL inaccurate/imprecise
UR - analyte not detected; result is unreliable

Table C-1
Chemical Results for Surface Water Samples
Frig Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW42C	MSA-SW42D	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW43D
SAMPLE ID	MSA-SW42C-030320	MSA-SW42D-030320	MSA-SW43A-030320	MSA-SW43B-030320	MSA-SW43C-030320	MSA-SW43D-030320
SAMPLE DATE	20200303	20200303	20200303	20200303	20200303	20200303
Volatile organic compounds (µg/L)						
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	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	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
1,1-DICHLOROETHANE	0.17 U	0.17 U	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	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	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	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	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	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U	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	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	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	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	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	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	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	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	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	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	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	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	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	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	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	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	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	5.4 U	5.4 U
BENZENE	0.13 U	0.13 U	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	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	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	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ
CARBON DISULFIDE	0.28 U	0.28 U	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	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	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	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	0.83 U	0.83 U	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	0.13 U	0.13 U

Table C-1
Chemical Results for Surface Water Samples
Frig Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW42C	MSA-SW42D	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW43D
SAMPLE ID	MSA-SW42C-030320	MSA-SW42D-030320	MSA-SW43A-030320	MSA-SW43B-030320	MSA-SW43C-030320	MSA-SW43D-030320
SAMPLE DATE	20200303	20200303	20200303	20200303	20200303	20200303
Volatile organic compounds-cont'd (µg/L)						
CHLOROMETHANE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.22 J	0.16 U	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	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ
DIISOPROPYL ETHER	0.17 U	0.17 U	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	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	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	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	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	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	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	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U	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	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	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	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	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	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	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	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 J
TOTAL XYLENES	0.15 U	0.15 U	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	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	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	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	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	0.19 U	0.19 U
VINYL CHLORIDE	0.5	0.26 J	0.2 U	0.2 U	0.2 U	0.2 U
Tentatively identified compounds-volatiles (µg/L)						
ISOPROPYL ALCOHOL	--	--	--	--	--	--

DL - detection limit
J - estimated
NJ - analyte tentatively identified; concentration is estimated
QL - quantitation limit
U - nondetect
UJ - analyte not detected; QL or DL inaccurate/imprecise
UR - analyte not detected; result is unreliable

Table C-1
Chemical Results for Surface Water Samples
Frig Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW44A	MSA-SW44B	MSA-SW44C	MSA-SW44D	MSA-SW46A	MSA-SW47A
SAMPLE ID	MSA-SW44A-030320	MSA-SW44B-030320	MSA-SW44C-030320	MSA-SW44D-030320	MSA-SW46A-030320	MSA-SW47A-030320
SAMPLE DATE	20200303	20200303	20200303	20200303	20200303	20200303
Volatile organic compounds (µg/L)						
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	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	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ
1,1-DICHLOROETHANE	0.17 U	0.17 U	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	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	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	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	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	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U	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	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	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	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	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	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	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	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	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	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	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	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	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	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	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	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	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	5.4 U	5.4 U
BENZENE	0.13 U	0.13 U	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	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	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	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ
CARBON DISULFIDE	0.28 U	0.28 U	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	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	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	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	0.83 U	0.83 U	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	0.13 U	0.13 U

Table C-1
Chemical Results for Surface Water Samples
Frig Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW44A	MSA-SW44B	MSA-SW44C	MSA-SW44D	MSA-SW46A	MSA-SW47A
SAMPLE ID	MSA-SW44A-030320	MSA-SW44B-030320	MSA-SW44C-030320	MSA-SW44D-030320	MSA-SW46A-030320	MSA-SW47A-030320
SAMPLE DATE	20200303	20200303	20200303	20200303	20200303	20200303
Volatile organic compounds-cont'd (µg/L)						
CHLOROMETHANE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U	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	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ
DIISOPROPYL ETHER	0.17 U	0.17 U	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	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	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	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	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	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	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	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U	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	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	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	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	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	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	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	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	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	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	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	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	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	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.22 J
Tentatively identified compounds-volatiles (µg/L)						
ISOPROPYL ALCOHOL	--	7.8 NJ	--	--	--	--

DL - detection limit
J - estimated
NJ - analyte tentatively identified; concentration is estimated
QL - quantitation limit
U - nondetect
UJ - analyte not detected; QL or DL inaccurate/imprecise
UR - analyte not detected; result is unreliable

Table C-1
Chemical Results for Surface Water Samples
Frig Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW48A	MSA-SW49A	QC
SAMPLE ID	MSA-SW48A-030320	MSA-SW49A-030320	TB-030320-2
SAMPLE DATE	20200303	20200303	20200303
Volatile organic compounds (µg/L)			
1,1,1,2-TETRACHLOROETHANE	0.14 U	0.14 U	0.14 U
1,1,1-TRICHLOROETHANE	0.24 U	0.24 U	0.24 U
1,1,2,2-TETRACHLOROETHANE	0.13 U	0.13 U	0.13 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.41 UJ	0.41 UJ	0.41 UJ
1,1-DICHLOROETHANE	0.17 U	0.17 U	0.17 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U
1,2,3-TRICHLOROBENZENE	0.54 U	0.54 U	0.54 U
1,2,3-TRICHLOROPROPANE	0.24 U	0.24 U	0.24 U
1,2,3-TRIMETHYLBENZENE	0.14 U	0.14 U	0.14 U
1,2,4-TRICHLOROBENZENE	0.26 U	0.26 U	0.26 U
1,2,4-TRIMETHYLBENZENE	0.07 U	0.07 U	0.07 U
1,2-DIBROMO-3-CHLOROPROPANE	0.91 U	0.91 U	0.91 U
1,2-DIBROMOETHANE	0.12 U	0.12 U	0.12 U
1,2-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U
1,2-DICHLOROETHANE	0.21 U	0.21 U	0.21 U
1,2-DICHLOROPROPANE	0.15 U	0.15 U	0.15 U
1,3-DICHLOROBENZENE	0.15 U	0.15 U	0.15 U
1,3-DICHLOROPROPANE	0.21 U	0.21 U	0.21 U
1,4-DICHLOROBENZENE	0.16 U	0.16 U	0.16 U
2,2-DICHLOROPROPANE	0.31 U	0.31 U	0.31 U
2-BUTANONE	1.2 U	1.2 U	1.2 U
2-CHLOROETHYL VINYL ETHER	0.26 UR	0.26 UR	0.26 UR
2-CHLOROTOLUENE	0.15 U	0.15 U	0.15 U
2-HEXANONE	0.54 U	0.54 U	0.54 U
4-CHLOROTOLUENE	0.09 U	0.09 U	0.09 U
4-ISOPROPYLTOLUENE	0.13 U	0.13 U	0.13 U
4-METHYL-2-PENTANONE	0.42 U	0.42 U	0.42 U
ACETONE	5.4 U	5.4 U	5.4 U
BENZENE	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.12 U	0.12 U	0.12 U
BROMOCHLOROMETHANE	0.14 U	0.14 U	0.14 U
BROMODICHLOROMETHANE	0.17 U	0.17 U	0.17 U
BROMOFORM	0.76 U	0.76 U	0.76 U
BROMOMETHANE	0.42 UJ	0.42 UJ	0.42 UJ
CARBON DISULFIDE	0.28 U	0.28 U	0.28 U
CARBON TETRACHLORIDE	0.26 U	0.26 U	0.26 U
CHLOROBENZENE	0.14 U	0.14 U	0.14 U
CHLORODIBROMOMETHANE	0.39 U	0.39 U	0.39 U
CHLORODIFLUOROMETHANE	1 U	1 U	1 U
CHLOROETHANE	0.83 U	0.83 U	0.83 U
CHLOROFORM	0.13 U	0.13 U	0.13 U

Table C-1
Chemical Results for Surface Water Samples
Frig Mortar Creek, Middle River, Maryland

LOCATION	MSA-SW48A	MSA-SW49A	QC
SAMPLE ID	MSA-SW48A-030320	MSA-SW49A-030320	TB-030320-2
SAMPLE DATE	20200303	20200303	20200303
Volatile organic compounds-cont'd (µg/L)			
CHLOROMETHANE	0.2 U	0.2 U	0.2 U
CIS-1,2-DICHLOROETHENE	0.16 U	0.16 U	0.16 U
CIS-1,3-DICHLOROPROPENE	0.61 U	0.61 U	0.61 U
DIBROMOMETHANE	0.09 U	0.09 U	0.09 U
DICHLORODIFLUOROMETHANE	0.35 UJ	0.35 UJ	0.35 UJ
DIISOPROPYL ETHER	0.17 U	0.17 U	0.17 U
ETHYL TERT-BUTYL ETHER	0.15 U	0.15 U	0.15 U
ETHYLBENZENE	0.11 U	0.11 U	0.11 U
HEXACHLOROBUTADIENE	0.83 U	0.83 U	0.83 U
ISOPROPYLBENZENE	0.09 U	0.09 U	0.09 U
M+P-XYLENES	0.08 U	0.08 U	0.08 U
METHYL TERT-BUTYL ETHER	0.07 U	0.07 U	0.07 U
METHYLENE CHLORIDE	2.6 U	2.6 U	2.6 U
NAPHTHALENE	0.32 U	0.32 U	0.32 U
N-BUTYLBENZENE	0.14 U	0.14 U	0.14 U
N-PROPYLBENZENE	0.15 U	0.15 U	0.15 U
O-XYLENE	0.09 U	0.09 U	0.09 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U
STYRENE	0.1 U	0.1 U	0.1 U
TERT-AMYL METHYL ETHER	0.11 U	0.11 U	0.11 U
TERT-BUTYLBENZENE	0.14 U	0.14 U	0.14 U
TERTIARY-BUTYL ALCOHOL	1.7 UJ	1.7 UJ	1.7 UJ
TETRACHLOROETHENE	0.15 U	0.15 U	0.15 U
TOLUENE	0.14 U	0.14 U	0.14 U
TOTAL XYLENES	0.15 U	0.15 U	0.15 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.67 U	0.67 U	0.67 U
TRICHLOROETHENE	0.1 U	0.1 U	0.1 U
TRICHLOROFLUOROMETHANE	0.45 U	0.45 U	0.45 U
VINYL ACETATE	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.2 U	0.2 U	0.2 U
Tentatively identified compounds-volatiles (µg/L)			
ISOPROPYL ALCOHOL	--	--	--

DL - detection limit
J - estimated
NJ - analyte tentatively identified; concentration is estimated
QL - quantitation limit
U - nondetect
UJ - analyte not detected; QL or DL inaccurate/imprecise
UR - analyte not detected; result is unreliable